Phase II Environmental Site Assessment

Park Lane Senior
1940 Turnbull Ave.
Block 3672, Lot 30
Bronx, New York

April 17, 2020

Prepared for:

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1. Introduction

Roux Environmental Engineering and Geology, D.P.C. (Roux), on behalf of PL Preservation LLC, has prepared this Phase II Environmental Site Assessment (ESA) Report to characterize environmental conditions of the property for the proposed affordable senior housing development project, which is identified as Block 3672, Lot 30 on the New York City Tax Map (the "Site"). The Site is located at 1940 Turnbull Avenue in the Bronx, New York. A Site Location Map is provided in Figure 1.

The objective of this Phase II ESA was to further characterize potential and existing environmental impacts associated with the historic Site use in the areas subject to redevelopment in order to effectively evaluate the eligibility of the Site for consideration for acceptance into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

The work was performed in accordance with Roux's proposal dated January 6, 2020.

1.1 Property Location and Site Description

The Site is located at 1940 Turnbull Avenue (Block 3672, Lot 30) in the Bronx, New York. The Scope of Work focuses on the affordable senior housing development project which will encompass a development footprint of approximately 9,000 square feet (SF) on a 12,776 SF lot. Currently, the Site is a parking lot. The proposed development Site is located east of the existing basketball courts on Lot 20, north and east of the Lot 20 parking lot and west of a Mitchell Lama building and the associated recreational space (playground and pools), which are located within Lot 1.

1.2 Site History

Based on Roux's review of historical documentation, including prior environmental assessments and Sanborn Fire Insurance Maps regarding Site history, it appears the Site was a part of a large wetland river system until the mid-1950s. The filling operations to develop the Soundview neighborhood were identified to have started in 1951 and continued until sometime prior to 1974. The origin of the fill materials is unknown. The current Site features were constructed in the early 1970s.

1.3 Proposed Site Redevelopment

The planned redevelopment of the Site entails the construction of an affordable senior housing building proposed by PL SARA LLC, an affiliate of PL Preservation LLC. The building will consist of approximately 133 affordable senior housing units and will include accessory residential amenity space (e.g. fitness center, recreation rooms, outdoor recreation areas). The gross square footage of the proposed 14 story building is 109,000 SF within a development footprint of approximately 9,000 SF.

1.4 Previous Environmental Reports and Environmental Conditions

The following environmental report was available for review:

- Phase I Environmental Site Assessment (ESA), prepared by GZA Geo Environmental Inc (GZA) on behalf of Park Lane Residence Co., 2016.

In 2016, on behalf of Park Lane Residence Co., GZA completed a Phase I ESA for the entirety of Block 3672 Lot 1 (Lot 1 formally included the entire city block encompassing the current Lots 1, 20 and 30). The GZA Phase I ESA reported there are no Recognized Environmental Conditions (RECS), Controlled

Recognized Environmental Conditions (CRECS), Historic Recognized Environmental Conditions (HRECS), De Minimis Conditions or significant data gaps. The GZA Phase I ESA reported that the former presence of wetlands may indicate the presence of historic fill, which is listed as a historical environmental concern. Additionally, the Phase I reported that the New York City Department of Buildings (DOB) issued a permit for the closure of a 20,000-gallon no. 6 fuel oil Underground Storage Tank (UST) on October 22, 2012. The Phase I further reported, prior to the tank closure, the UST passed a tightness test in June 2012 and the property management company, Grenadier Realty Corp indicated there was no evidence of a release during the closure activities. The UST was located beneath a concrete pad on the north side of Lot 1 adjacent to the swimming area. No spill was noted.

- Geotech Report, prepared by Mueser Rutledge Consulting Engineers (MRCE) on behalf of Park Lane Residence Co., 2018.

MRCE completed a geotechnical investigation between December 26, 2017 and January 3, 2018. The onsite investigation consisted of four borings and one piezometer to determine the depth to groundwater and the offsite investigation consisted of an additional 10 borings. The fill layer was observed at the surface and down to a depth of 20 feet on average, ranging between 18 to 25 feet. The fill layer generally consists of brown, black, red brown, and gray fine to coarse sand, trace to some gravel, silt, with varying amounts of concrete, brick, and wood. Refusal was encountered at several locations, indicating the presence of obstructions in the fill layer. Beneath the fill layer, the subsurface is predominantly comprised of an organic silty clay layer 10 feet thick, underlain by a layer of fine to coarse sand with some gravel. Bedrock was encountered at approximately 40 ft below land surface (bls). Groundwater was measured at 11.3 feet bls, or El.+5.3.

2. Methods of Investigation

The following scope of work was developed to investigate environmental conditions at the Site. A Site Plan showing boring sampling locations is provided on Figure 2.

2.1 Soil Investigation Scope of Work

From February 4 to February 5, 2020, the soil investigation scope of work for this investigation consisted of a total of eight (8) soil borings (SB-1, SB-2_1, SB-2_2, SB-3, SB-4, SB-5, SB-6, and SB-7), which were performed using a Geoprobe direct push rig. All borings were completed to 15 ft bls except for SB-2_1, which was completed to 6 ft bls due to a subsurface concrete obstruction. Prior to advancement with a drill rig, each boring location was cleared to a depth of 5 ft bls using hand tools to prevent damage to subsurface utilities.

Soil from each of the borings was visually inspected for evidence of impacts and screened for organic vapors in the field using a photoionization detector (PID). Soil lithology was recorded according to the Unified Soils Classification System (USCS).

Up to two soil samples were collected from each boring to be submitted for laboratory analysis from the first two-foot interval of soil. A second sample was collected from the two-foot interval exhibiting the greatest evidence of impact (elevated PID detections, odors, or staining) in fill material which was observed in all borings between 10 to 15 ft bls.

2.2 Laboratory Analysis

Soil samples were analyzed at York Analytical Laboratories, Inc. of Richmond Hill, New York, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory (#12058) for analysis of target compound list (TCL) volatile organic compounds (VOCs) using USEPA Method 8260, TCL semivolatile organic compounds (SVOCs) using USEPA Method 8270, pesticides using USEPA Method 8081, polychlorinated biphenyls (PCBs) using USEPA Method 8082, Target Analyte List (TAL) metals using USEPA Method 6010, mercury using USEPA Method 7473, and total cyanide using USEPA Method 9014/9010, with the exception of SB-2_1 which was analyzed only for SVOCs and TAL metals.

3. Phase II ESA Results

An overview of hydrogeologic conditions, followed by an evaluation of the soil sampling results is provided below. Soil boring logs developed for each location are provided in Appendix A. A full set of laboratory analytical data is provided as Appendix B.

3.1 Site Geology

The top 15 feet of the Site is comprised of historic fill consisting of sand, gravel, brick, wood, and asphalt. Within the fill layer, evidence of staining and odor in addition to sand, gravel, wood, peat, and organics was observed at depths between 10 and 15 ft bls in all soil borings except for SB-2_1, which was not advanced to this depth. PID readings at this depth interval ranged between 0.0 and 3.0 parts per million (ppm). Bedrock was not encountered during the Phase II investigation.

According to the MRCE, Geotechnical Report (MRCE January 2018), the fill layer extended to a maximum depth of approximately 25 ft bls. Beneath the historic fill, the subsurface is predominantly comprised of an organic silty clay layer 10 feet thick underlain by a layer of fine to coarse sand with some gravel and bedrock was encountered at approximately 40 ft bls (MRCE January 2018).

3.2 Site Hydrogeology

Groundwater was encountered between 11 and 13 ft bls. A groundwater flow map was not generated; however, based on the surrounding topography and surface water flow patterns, the presumed groundwater flow in the vicinity of the Site is in a south-southeast direction.

3.3 Soil Investigation Analytical Results

The following section presents the results of the soil sampling and laboratory analysis. Evidence of impacts such as odors or staining were observed during borehole advancement, typically at a depth between 10 to 15 ft bls. A total of 16 soil samples were collected for laboratory analysis, including one field duplicate.

The concentrations of VOCs, SVOCs, metals, PCBs, pesticides, mercury, and cyanide were compared to the New York State Department of Environmental Conservation (NYSDEC) 6 New York Code of Rules and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs), Restricted-Residential Use Soil Cleanup Objectives (RRSCOs), and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs), which are provided in Tables 1 through 5. The rationale for comparing soil analytical results to these standards is based on the proposed residential redevelopment of the Site. A summary of UUSCO, RRSCO, and PGWSCO exceedances are depicted on Figure 2 and laboratory analytical reports are provided in Appendix B.

Table 1 presents a summary of the VOC analytical data collected during the Phase II ESA. The majority of VOC concentrations were below laboratory detection limits. VOCs were not detected above NYSDEC RRSCOs. Samples did exhibit exceedances of UUSCOs and PGWSCOs for acetone, a typical laboratory contaminant. These exceedances are not indicative of Site soil conditions.

Table 2 presents a summary of SVOC analytical data collected during the Phase II ESA. Concentrations of several SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs), were detected in exceedance of the UUSCOs, RRSCOs, or PGWSCOs in ten (10) of the 16 soil samples. PAHs are commonly detected in historical fill. The SVOCs detected in exceedance of applicable SCOs are 3- and 4- methylphenol (total), acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, phenanthrene, and pyrene.

Laboratory analytical data for the exceedances of SCOs for SVOCs are summarized below.

- 3- and 4- methylphenol (total) was detected with SCO exceedances in one sample, SB-1 (11-13 ft bls) at a concentration of 0.665 milligrams per kilogram (mg/kg) (compared to 0.33 mg/kg [UUSCOs and PGWSCOs] and 100 mg/kg [RRSCOs]).
- Acenaphthene was detected with SCO exceedances in one sample, SB-7 (13-15 ft bls) at a concentration of 21.3 mg/kg (compared to 20 mg/kg [UUSCOs], 100 mg/kg [RRSCOs], and 98 [PGWSCOs]).
- Benzo(a)anthracene was detected in eight samples with SCO exceedances, SB-1 (11-13 ft bls), SB-2_1 (0-2 ft bls), SB-2_2 (0-2 ft bls), SB-3 (0-2 ft bls), SB-5 (0-2 ft bls), SB-6 (0-2 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 1.17 mg/kg and 108 mg/kg in SB-6 (0-2 ft bls) and SB-7 (13-15 ft bls), respectively (compared to 1 mg/kg [UUSCOs, RRSCOs, and PGWSCOs]).
- Benzo(a)pyrene was detected in eight samples with SCO exceedances, SB-1 (11-13 ft bls), SB-2_1 (0-2 ft bls), SB-2_2 (0-2 ft bls), SB-3 (0-2 ft bls), SB-5 (0-2 ft bls), SB-6 (0-2 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 1.08 mg/kg and 110 mg/kg at SB-6 (0-2 ft bls) and SB-7 (13-15), respectively (compared to 1 mg/kg [UUSCOs and RRSCOs] and 22 mg/kg [PGWSCOs]).
- Benzo(b)fluoranthene was detected in seven samples with SCO exceedances, SB-1 (11-13 ft bls), SB-2_1 (0-2 ft bls), SB-2_2 (0-2 ft bls), SB-3 (0-2 ft bls), SB-5 (0-2 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 1.22 mg/kg and 95.3 mg/kg in SB-2_2 (0-2 ft bls) and SB-7 (13-15 ft bls), respectively (compared to 1 mg/kg [UUSCOs and RRSCOs] and 1.7 mg/kg [PGWSCOs]).
- Benzo(k)fluoranthene was detected in seven samples, SB-1 (11-13 ft bls), SB-2_1 (0-2 ft bls), SB-2_2 (0-2 ft bls), SB-3 (0-2 ft bls), SB-5 (0-2 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 0.976 mg/kg and 83 mg/kg in SB-2_2 (0-2 ft bls) and SB-7 (13-15 ft bls), respectively (compared to 0.8 mg/kg [UUSCOs], 3.9 mg/kg [RRSCOs], and 1.7 mg/kg [PGWSCOs])
- Chrysene was detected in eight samples with SCO exceedances, SB-1 (11-13 ft bls), SB-2_1 (0-2 ft bls), SB-2_2 (0-2 ft bls), SB-3 (0-2 ft bls), SB-5 (0-2 ft bls), SB-6 (0-2 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 1.09 mg/kg and 96.8 mg/kg at SB-6 (0-2 ft bls) and SB-7 (13-15 ft bls), respectively (compared to 1 mg/kg [UUSCOs and PGWSCOs] and 3.9 mg/kg [RRSCOs])
- Dibenz(a,h)anthracene was detected in five samples with SCO exceedances, SB-1 (11-13 ft bls), SB-2_1 (0-2 ft bls), SB-3 (0-2 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 0.443 mg/kg and 19 mg/kg in SB-7 (0-2 ft bls) and SB-7 (13-15 ft bls), respectively (compared to 0.33 mg/kg [UUSCOs and RRSCOs] and 1,000 mg/kg [PGWSCOs])
- Dibenzofuran was detected in one sample with SCO exceedances, SB-7 (13-15 ft bls) at a concentration of 10.1 mg/kg (compared to 7 mg/kg [UUSCOs], 59 mg/kg [RRSCOs], and 210 mg/kg [PGWSCOs])

- Fluoranthene was detected in two samples with SCO exceedances, SB-1 (0-2 ft bls) and SB-7 (13-15 ft bls) at concentrations of 112 mg/kg and 165 mg/kg, respectively (compared to 100 mg/kg [UUSCOs and RRSCOs] and 1,000 mg/kg [PGWSCOs])
- Fluorene was detected in one sample with SCO exceedances, SB-7 (13-15 ft bls) at a concentration of 31.6 mg/kg (compared to 30 mg/kg [UUSCOs], 100 mg/kg [RRSCOs], and 386 mg/kg [PGWSCOs])
- Indeno(1,2,3-c,d)pyrene was detected in ten samples with SCO exceedances, SB-1 (11-13 ft bls), SB-2_1 (0-2 ft bls), SB-2_2 (0-2 ft bls), SB-3 (0-2 ft bls), SB-3 (13-15 ft bls), SB-4 (0-2 ft bls), SB-5 (0-2 ft bls), SB-6 (0-2 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 0.613 mg/kg and 92.9 mg/kg in SB-3 (13-15 ft bls) and SB-7 (13-15 ft bls), respectively (compared to 0.5 mg/kg [UUSCOs and RRSCOs] and 8.2 mg/kg [PGSCOs])
- Phenanthrene was detected in one sample with an SCO exceedance, SB-7 (13-15 ft bls) at a concentration of 138 mg/kg (compared to 100 mg/kg [UUSCOs and RRSCOs], and 1,000 mg/kg [PGWSCOs])
- Pyrene was detected in one sample with an SCO exceedance, SB-7 (13-15 ft bls) at a concentration of 165 mg/kg (compared to 100 mg/kg [UUSCOs and RRSCOs], and 1,000 mg/kg [PGWSCOs])

Table 3 presents a summary of metals analytical data during the Phase II ESA. Metals were detected above UUSCOs, RRSCOs, or PGWSCOs in all of the samples collected. The metals detected in exceedance are arsenic, barium, cadmium, chromium (total), copper, lead, mercury, nickel, selenium, silver, and zinc. The concentrations and distribution of the metals detected in exceedance are characteristic of historical fill.

Laboratory analytical data for the exceedances of SCOs for metals are summarized below.

- Arsenic was detected in three samples with SCO exceedances, SB-1 (11-13 ft bls), SB-6 (12-14 ft bls), and SB-7 (0-2 ft bls) at concentrations ranging between 16.7 mg/kg and 74.4 mg/kg in SB-7 (0-2 ft bls) and SB-1 (11-13 ft bls), respectively (compared to 13 mg/kg [UUSCOs], 16 mg/kg [RRSCOs and PGWSCOs]).
- Barium was detected in seven samples with SCO exceedances, SB-1 (11-13 ft bls), SB-2_2 (0-2 ft bls), SB-4 (0-2 ft bls), SB-5 (13-15 ft bls), SB-5 (13-15 ft bls FD), SB-6 (12-14 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 422 mg/kg and 2810 mg/kg in SB-4 (0-2 ft bls) and SB-1 (11-3 ft bls), respectively (compared to 350 mg/kg [UUSCOs], 400 mg/kg [RRSCOs], and 820 mg/kg [PGWSCOs]).
- Cadmium was detected in was detected in two samples with SCO exceedances, SB-1 (11-13 ft bls) and SB-5 (13-15 ft bls FD) at concentrations of 6.39 mg/kg and 3.63 mg/kg, respectively (compared to 2.5 mg/kg [UUSCOs], 4.3 mg/kg [RRSCOs], and 7.5 mg/kg [PGWSCOs]).
- Chromium (total) was detected in three samples with SCO exceedances, SB-1 (11-13 ft bls), SB-2_2 (0-2 ft bls), SB-6 (12-14) at concentrations ranging between 43.1 mg/kg and 340 mg/kg at SB-1 (11-13 ft bls) and SB-6 (12-14), respectively (compared to 30 mg/kg [UUSCOs] and 180 mg/kg [RRSCOs]).
- Copper was detected in nine samples with SCO exceedances, SB-1 (11-13 ft bls), SB-3 (0-2 ft bls), SB-3 (13-15 ft bls), SB-4 (13-15 ft bls), SB-5 (13-15 ft bls), SB-5 (13-15 ft bls FD), SB-6 (12-14 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls) at concentrations ranging between 60.7 mg/kg and 920 mg/kg in SB-3 (0-2 ft bls) and SB-6 (12-14 ft bls), respectively (compared to 50 mg/kg [UUSCOs], 270 mg/kg [RRSCOs], and 1,720 mg/kg [PGWSCOs]).
- Lead was detected above SCOs in all samples except SB-2_2 (13-15 ft bls) at concentrations ranging between 215 mg/kg and 11,100 mg/kg in SB-4 (13-15) and SB-1 (11-13 ft bls), respectively (compared to 63 mg/kg [UUSCOs], 400 mg/kg [RRSCOs], and 450 mg/kg [PGWSCOs]).

- Mercury was detected in all samples except SB-3 (13-15 ft bls) and SB-7 (13-15 ft bls) at concentrations ranging between 0.22 mg/kg and 2.38 mg/kg in SB-2_1 (0-2 ft bls) and SB-2_2 (13-15 ft bls), respectively (compared to 0.18 mg/kg [UUSCOs], 0.81 mg/kg [RRSCOs], and 0.73 mg/kg [PGWSCOs]).
- Nickel was detected above SCOs in four samples, SB-1 (11-13 ft bls), SB-2_2 (0-2 ft bls), SB-3 (0-2 ft bls), and SB-6 (12-14 ft bls) at concentrations ranging between 31.9 mg/kg and 2,280 mg/kg in SB-3 (0-2 ft bls) and SB-6 (12-14 ft bls), respectively (compared to 30 mg/kg [UUSCOs], 310 mg/kg [RRSCOs], and 130 mg/kg [PGWSCOs]).
- Selenium was detected above SCOs in two samples, SB-4 (13-15 ft bls) and SB-7 (13-15 ft bls) at concentrations of 10.4 mg/kg and 7.08 mg/kg, respectively (compared to 3.9 mg/kg [UUSCOs], 180 mg/kg [RRSCOs], and 4 mg/kg [PGWSCOs]).
- Silver was detected above SCOs in one sample, SB-6 (12-14 ft bls) at a concentration of 7.83 mg/kg (compared to 2 mg/kg [UUSCOs], 180 mg/kg [RRSCOs], and 4 mg/kg [PGWSCOs]).
- Zinc was detected in all samples above UUSCOs except for SB-2_2 (13-15 ft bls), at concentrations between 221 mg/kg and 7,250 mg/kg in SB-5 (0-2 ft bls) and SB-1 (11-13 ft bls), respectively (compared to 109 mg/kg [UUSCOs], 10,000 [RRSCOs], and 2,480 [PGWSCOs]).

Table 4 presents a summary of PCB analytical data during the Phase II ESA. Total PCBs were not in exceedance of the UUSCOs, RRSCOs, and PGWSCOs in any samples.

Table 5 presents a summary of pesticide analytical data during the Phase II ESA. Pesticides were detected above UUSCOs in six of the sixteen samples collected. Pesticides were not in exceedance of RRSCOs or PGWSCOs in any samples. The pesticides detected in exceedance of UUSCOs are P,P'-DDD, P,P'-DDE, and P,P'-DDT. Laboratory analytical data for the soil exceedances for pesticides are summarized below.

- P,P'-DDD was detected in two samples, SB-1 (11-13 ft bls) and SB-7 (0-2 ft bls), at concentrations of 0.00689 mg/kg and 0.00554 mg/kg, respectively (compared to 0.0033 mg/kg [UUSCOs]).
- P,P'-DDE was detected in five samples, SB-1 (0-2 ft bls), SB-1 (11-13 ft bls), SB-6 (0-2 ft bls), SB-7 (0-2 ft bls), and SB-7 (13-15 ft bls), at concentrations of 0.00668 mg/kg and 0.0655 mg/kg in SB-7 (13-15 ft bls) and SB-6 (0-2 ft bls), respectively (compared to 0.0033 mg/kg [UUSCOs]).
- P,P'-DDT was detected in five samples, SB-1 (0-2 ft bls), SB-1 (11-13 ft bls), SB-2_2 (0-2 ft bls), SB-6 (0-2 ft bls), and SB-7 (0-2 ft bls) at concentrations of 0.0131 mg/kg and 0.0691 mg/kg at SB-2_2 (0-2 ft bls) and SB-7 (0-2 ft bls) respectively (compared to 0.0033 mg/kg [UUSCOs]).

4. Summary and Recommendations

Soil samples were collected from 8 soil borings at the Site. Soil in these borings is predominately a mixture of historic fill consisting of brown, black, red brown, and gray sand, gravel, brick, wood, and asphalt. A layer with evidence of staining and odor were observed at depths between 10 and 15 bls in all borings advanced to 15 ft bls. Groundwater, when observed, was encountered between 11 and 13 ft bls.

VOCs were identified above UUSCOs but below RRSCOs and PGWSCOs, however the acetone detections are not indicative of Site soil conditions. No PCBs were identified in the soil samples above UUSCOs, RRSCOs, or PGWSCOs. Pesticides were detected above UUSCOs but below RRSCOs and PGWSCOs. SVOCs and metals were detected at concentrations exceeding their respective UUSCOs, RRSCOs, and PGWSCOs in soil samples. Concentrations of contaminants are significantly higher at depth (between 10 and 15 bls) where evidence of organics potentially associated with the former wetlands were observed. The elevated concentrations of SVOCs and metals are likely attributable to the Site being underlain by historic fill.

Based on the above, the Site appears to have been impacted by contaminants originating from historical filling operations at the Site. The presence of these contaminants will complicate the proposed redevelopment of the Site, and as a result, the NYSDEC BCP will be an appropriate program to complete investigation and remediation to ensure the redevelopment is protective of public health and the environment. As part of the NYSDEC BCP, the Site will undergo additional investigation to delineate nature and extent of contaminants under a Remedial Investigation and a subsequent remediation to remove or mitigate identified contaminants under a Remedial Action Work Plan.

Respectfully submitted,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

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TABLES

Table 1. Summary of Volatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-1	SB-1	SB-2_2	SB-2_2
			Sample Date:		02/04/2020	02/04/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		0 - 2	11 - 13	0 - 2	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,1,1,2-Tetrachloroethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,1,1-Trichloroethane (TCA)	0.68	100	0.68	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,1,2,2-Tetrachloroethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,1,2-Trichloroethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,1-Dichloroethane	0.27	26	0.27	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,1-Dichloroethene	0.33	100	0.33	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2,3-Trichlorobenzene	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2,3-Trichloropropane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2,4-Trimethylbenzene	3.6	52	3.6	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2-Dibromo-3-Chloropropane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2-Dichlorobenzene	1.1	100	1.1	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2-Dichloroethane	0.02	3.1	0.02	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,2-Dichloropropane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,3-Dichlorobenzene	2.4	49	2.4	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,4-Dichlorobenzene	1.8	13	1.8	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.1	MG/KG	0.052 U	0.066 U	0.061 U	0.081 U
2-Hexanone	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Acetone	**0.05**	100	0.05	MG/KG	0.0052 U	**0.062**	0.0061 U	**0.13**
Acrolein	--	--	--	MG/KG	0.0052 U	0.0066 U	0.0061 U	0.0081 U
Acrylonitrile	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Benzene	0.06	4.8	0.06	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Bromochloromethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Bromodichloromethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Bromoform	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Bromomethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Carbon Disulfide	--	--	--	MG/KG	0.0026 U	0.0038 J	0.003 U	0.0041 U
Carbon Tetrachloride	0.76	2.4	0.76	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Chlorobenzene	1.1	100	1.1	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Chloroethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Chloroform	0.37	49	0.37	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U

Table 1. Summary of Volatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-1	SB-1	SB-2_2	SB-2_2
				Sample Date:	02/04/2020	02/04/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	0 - 2	11 - 13	0 - 2	13 - 15
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Chloromethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Cis-1,2-Dichloroethylene	0.25	100	0.25	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Cis-1,3-Dichloropropene	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Cyclohexane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Dibromochloromethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Dibromomethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Dichlorodifluoromethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Ethylbenzene	1	41	1	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Hexachlorobutadiene	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Isopropylbenzene (Cumene)	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Methyl Acetate	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	MG/KG	0.0026 U	0.013	0.003 U	0.033
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Methylcyclohexane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Methylene Chloride	0.05	100	0.05	MG/KG	0.0084 J	0.0066 U	0.011 J	0.0094 J
M-P-Xylene	--	--	--	MG/KG	0.0052 U	0.0066 U	0.0061 U	0.0081 U
N-Butylbenzene	12	100	12	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
N-Propylbenzene	3.9	100	3.9	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
P-Cymene (P-Isopropyltoluene)	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Sec-Butylbenzene	11	100	11	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Styrene	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
T-Butylbenzene	5.9	100	5.9	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Tert-Butyl Alcohol	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Tert-Butyl Methyl Ether	0.93	100	0.93	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Tetrachloroethylene (PCE)	1.3	19	1.3	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Toluene	0.7	100	0.7	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Trans-1,2-Dichloroethene	0.19	100	0.19	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Trans-1,3-Dichloropropene	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Trans-1,4-Dichloro-2-Butene	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Trichloroethylene (TCE)	0.47	21	0.47	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Trichlorofluoromethane	--	--	--	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Vinyl Chloride	0.02	0.9	0.02	MG/KG	0.0026 U	0.0033 U	0.003 U	0.0041 U
Xylenes, Total	0.26	100	1.6	MG/KG	0.0078 U	0.0099 U	0.0091 U	0.012 U

Table 1. Summary of Volatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-3	SB-3	SB-4	SB-4
			Sample Date:		02/04/2020	02/04/2020	02/04/2020	02/04/2020
			Sample Depth (ft bls):		0 - 2	13 - 15	0 - 2	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,1,1,2-Tetrachloroethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,1,1-Trichloroethane (TCA)	0.68	100	0.68	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,1,2,2-Tetrachloroethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,1,2-Trichloroethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,1-Dichloroethane	0.27	26	0.27	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,1-Dichloroethene	0.33	100	0.33	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2,3-Trichlorobenzene	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2,3-Trichloropropane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2,4-Trimethylbenzene	3.6	52	3.6	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2-Dibromo-3-Chloropropane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2-Dichlorobenzene	1.1	100	1.1	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2-Dichloroethane	0.02	3.1	0.02	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,2-Dichloropropane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,3-Dichlorobenzene	2.4	49	2.4	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,4-Dichlorobenzene	1.8	13	1.8	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.1	MG/KG	0.047 U	0.06 U	0.046 U	0.065 U
2-Hexanone	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Acetone	**0.05**	100	0.05	MG/KG	0.0047 U	**0.082**	0.0046 U	**0.092**
Acrolein	--	--	--	MG/KG	0.0047 U	0.006 U	0.0046 U	0.0065 U
Acrylonitrile	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Benzene	0.06	4.8	0.06	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Bromochloromethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Bromodichloromethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Bromoform	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Bromomethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Carbon Disulfide	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Carbon Tetrachloride	0.76	2.4	0.76	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Chlorobenzene	1.1	100	1.1	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Chloroethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Chloroform	0.37	49	0.37	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U

Table 1. Summary of Volatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-3	SB-3	SB-4	SB-4
				Sample Date:	02/04/2020	02/04/2020	02/04/2020	02/04/2020
				Sample Depth (ft bls):	0 - 2	13 - 15	0 - 2	13 - 15
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Chloromethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Cis-1,2-Dichloroethylene	0.25	100	0.25	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Cis-1,3-Dichloropropene	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Cyclohexane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Dibromochloromethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Dibromomethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Dichlorodifluoromethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Ethylbenzene	1	41	1	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Hexachlorobutadiene	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Isopropylbenzene (Cumene)	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Methyl Acetate	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	MG/KG	0.0024 U	0.017	0.0023 U	0.017
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Methylcyclohexane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Methylene Chloride	0.05	100	0.05	MG/KG	0.0047 U	0.006 U	0.0046 U	0.0065 U
M-P-Xylene	--	--	--	MG/KG	0.0047 U	0.006 U	0.0046 U	0.0065 U
N-Butylbenzene	12	100	12	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
N-Propylbenzene	3.9	100	3.9	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
P-Cymene (P-Isopropyltoluene)	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Sec-Butylbenzene	11	100	11	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Styrene	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
T-Butylbenzene	5.9	100	5.9	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Tert-Butyl Alcohol	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Tert-Butyl Methyl Ether	0.93	100	0.93	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Tetrachloroethylene (PCE)	1.3	19	1.3	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Toluene	0.7	100	0.7	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Trans-1,2-Dichloroethene	0.19	100	0.19	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Trans-1,3-Dichloropropene	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Trans-1,4-Dichloro-2-Butene	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Trichloroethylene (TCE)	0.47	21	0.47	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Trichlorofluoromethane	--	--	--	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Vinyl Chloride	0.02	0.9	0.02	MG/KG	0.0024 U	0.003 U	0.0023 U	0.0033 U
Xylenes, Total	0.26	100	1.6	MG/KG	0.0071 U	0.009 U	0.0069 U	0.0098 U

Table 1. Summary of Volatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-5	SB-5	SB-5	SB-6
			Sample Date:		02/05/2020	02/05/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		0 - 2	13 - 15	13 - 15	0 - 2
			Normal Sample or Field Duplicate:		N	N	FD	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,1,1,2-Tetrachloroethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,1,1-Trichloroethane (TCA)	0.68	100	0.68	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,1,2,2-Tetrachloroethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,1,2-Trichloroethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,1-Dichloroethane	0.27	26	0.27	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,1-Dichloroethene	0.33	100	0.33	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2,3-Trichlorobenzene	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2,3-Trichloropropane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2,4-Trimethylbenzene	3.6	52	3.6	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2-Dibromo-3-Chloropropane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2-Dichlorobenzene	1.1	100	1.1	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2-Dichloroethane	0.02	3.1	0.02	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,2-Dichloropropane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,3-Dichlorobenzene	2.4	49	2.4	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,4-Dichlorobenzene	1.8	13	1.8	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.1	MG/KG	0.055 U	0.061 U	0.071 U	0.055 U
2-Hexanone	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Acetone	**0.05**	100	0.05	MG/KG	0.0055 U	**0.07**	0.048	0.0055 U
Acrolein	--	--	--	MG/KG	0.0055 U	0.0061 U	0.0071 U	0.0055 U
Acrylonitrile	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Benzene	0.06	4.8	0.06	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Bromochloromethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Bromodichloromethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Bromoform	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Bromomethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Carbon Disulfide	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Carbon Tetrachloride	0.76	2.4	0.76	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Chlorobenzene	1.1	100	1.1	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Chloroethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Chloroform	0.37	49	0.37	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U

Table 1. Summary of Volatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-5	SB-5	SB-5	SB-6
				Sample Date:	02/05/2020	02/05/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	0 - 2	13 - 15	13 - 15	0 - 2
				Normal Sample or Field Duplicate:	N	N	FD	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Chloromethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Cis-1,2-Dichloroethylene	0.25	100	0.25	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Cis-1,3-Dichloropropene	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Cyclohexane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Dibromochloromethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Dibromomethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Dichlorodifluoromethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Ethylbenzene	1	41	1	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Hexachlorobutadiene	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Isopropylbenzene (Cumene)	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Methyl Acetate	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	MG/KG	0.0027 U	0.019	0.013	0.0028 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Methylcyclohexane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Methylene Chloride	0.05	100	0.05	MG/KG	0.0063 J	0.0061 U	0.0071 U	0.0062 J
M-P-Xylene	--	--	--	MG/KG	0.0055 U	0.0061 U	0.0071 U	0.0055 U
N-Butylbenzene	12	100	12	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
N-Propylbenzene	3.9	100	3.9	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
P-Cymene (P-Isopropyltoluene)	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Sec-Butylbenzene	11	100	11	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Styrene	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
T-Butylbenzene	5.9	100	5.9	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Tert-Butyl Alcohol	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Tert-Butyl Methyl Ether	0.93	100	0.93	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Tetrachloroethylene (PCE)	1.3	19	1.3	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Toluene	0.7	100	0.7	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Trans-1,2-Dichloroethene	0.19	100	0.19	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Trans-1,3-Dichloropropene	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Trans-1,4-Dichloro-2-Butene	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Trichloroethylene (TCE)	0.47	21	0.47	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Trichlorofluoromethane	--	--	--	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Vinyl Chloride	0.02	0.9	0.02	MG/KG	0.0027 U	0.0031 U	0.0036 U	0.0028 U
Xylenes, Total	0.26	100	1.6	MG/KG	0.0082 U	0.0092 U	0.011 U	0.0083 U

Table 1. Summary of Volatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-6	SB-7	SB-7
				Sample Date:	02/05/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	12 - 14	0 - 2	13 - 15
				Normal Sample or Field Duplicate:	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units			
1,1,1,2-Tetrachloroethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,1,1-Trichloroethane (TCA)	0.68	100	0.68	MG/KG	0.003 U	0.0029 U	0.003 U
1,1,2,2-Tetrachloroethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,1,2-Trichloroethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,1-Dichloroethane	0.27	26	0.27	MG/KG	0.003 U	0.0029 U	0.003 U
1,1-Dichloroethene	0.33	100	0.33	MG/KG	0.003 U	0.0029 U	0.003 U
1,2,3-Trichlorobenzene	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,2,3-Trichloropropane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,2,4-Trimethylbenzene	3.6	52	3.6	MG/KG	0.003 U	0.0029 U	0.003 U
1,2-Dibromo-3-Chloropropane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,2-Dichlorobenzene	1.1	100	1.1	MG/KG	0.003 U	0.0029 U	0.003 U
1,2-Dichloroethane	0.02	3.1	0.02	MG/KG	0.003 U	0.0029 U	0.003 U
1,2-Dichloropropane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	8.4	MG/KG	0.003 U	0.0029 U	0.003 U
1,3-Dichlorobenzene	2.4	49	2.4	MG/KG	0.003 U	0.0029 U	0.003 U
1,4-Dichlorobenzene	1.8	13	1.8	MG/KG	0.003 U	0.0029 U	0.003 U
1,4-Dioxane (P-Dioxane)	0.1	13	0.1	MG/KG	0.06 U	0.057 U	0.06 U
2-Hexanone	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Acetone	**0.05**	100	0.05	MG/KG	**0.071**	0.0057 U	**0.055**
Acrolein	--	--	--	MG/KG	0.006 U	0.0057 U	0.006 U
Acrylonitrile	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Benzene	0.06	4.8	0.06	MG/KG	0.003 U	0.0029 U	0.003 U
Bromochloromethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Bromodichloromethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Bromoform	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Bromomethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Carbon Disulfide	--	--	--	MG/KG	0.003 U	0.0029 U	0.0056 J
Carbon Tetrachloride	0.76	2.4	0.76	MG/KG	0.003 U	0.0029 U	0.003 U
Chlorobenzene	1.1	100	1.1	MG/KG	0.003 U	0.0029 U	0.003 U
Chloroethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Chloroform	0.37	49	0.37	MG/KG	0.003 U	0.0029 U	0.003 U

Table 1. Summary of Volatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-6	SB-7	SB-7
			Sample Date:		02/05/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		12 - 14	0 - 2	13 - 15
			Normal Sample or Field Duplicate:		N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units			
Chloromethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Cis-1,2-Dichloroethylene	0.25	100	0.25	MG/KG	0.003 U	0.0029 U	0.003 U
Cis-1,3-Dichloropropene	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Cyclohexane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Dibromochloromethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Dibromomethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Dichlorodifluoromethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Ethylbenzene	1	41	1	MG/KG	0.003 U	0.0029 U	0.003 U
Hexachlorobutadiene	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Isopropylbenzene (Cumene)	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Methyl Acetate	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.12	MG/KG	0.014	0.0029 U	0.0091
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Methylcyclohexane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Methylene Chloride	0.05	100	0.05	MG/KG	0.0062 J	0.0077 J	0.006 U
M-P-Xylene	--	--	--	MG/KG	0.006 U	0.0057 U	0.006 U
N-Butylbenzene	12	100	12	MG/KG	0.003 U	0.0029 U	0.003 U
N-Propylbenzene	3.9	100	3.9	MG/KG	0.003 U	0.0029 U	0.003 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
P-Cymene (P-Isopropyltoluene)	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Sec-Butylbenzene	11	100	11	MG/KG	0.003 U	0.0029 U	0.003 U
Styrene	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
T-Butylbenzene	5.9	100	5.9	MG/KG	0.003 U	0.0029 U	0.003 U
Tert-Butyl Alcohol	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Tert-Butyl Methyl Ether	0.93	100	0.93	MG/KG	0.003 U	0.0029 U	0.003 U
Tetrachloroethylene (PCE)	1.3	19	1.3	MG/KG	0.003 U	0.0029 U	0.003 U
Toluene	0.7	100	0.7	MG/KG	0.003 U	0.0029 U	0.003 U
Trans-1,2-Dichloroethene	0.19	100	0.19	MG/KG	0.003 U	0.0029 U	0.003 U
Trans-1,3-Dichloropropene	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Trans-1,4-Dichloro-2-Butene	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Trichloroethylene (TCE)	0.47	21	0.47	MG/KG	0.003 U	0.0029 U	0.003 U
Trichlorofluoromethane	--	--	--	MG/KG	0.003 U	0.0029 U	0.003 U
Vinyl Chloride	0.02	0.9	0.02	MG/KG	0.003 U	0.0029 U	0.003 U
Xylenes, Total	0.26	100	1.6	MG/KG	0.009 U	0.0086 U	0.0091 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-1	SB-1	SB-2_1	SB-2_2
			Sample Date:		02/04/2020	02/04/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		0 - 2	11 - 13	0 - 2	0 - 2
			Normal Sample or Field Duplicate:		N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,2,4,5-Tetrachlorobenzene	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
1,2-Dichlorobenzene	1.1	100	1.1	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
1,3-Dichlorobenzene	2.4	49	2.4	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
1,4-Dichlorobenzene	1.8	13	1.8	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
2,3,4,6-Tetrachlorophenol	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
2,4,5-Trichlorophenol	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
2,4,6-Trichlorophenol	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
2,4-Dichlorophenol	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
2,4-Dimethylphenol	--	--	--	MG/KG	0.0514 U	0.525 D	0.0463 U	0.0454 U
2,4-Dinitrophenol	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
2,4-Dinitrotoluene	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
2,6-Dinitrotoluene	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
2-Chloronaphthalene	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
2-Chlorophenol	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
2-Methylnaphthalene	--	--	--	MG/KG	0.0514 U	4.41 D	0.096 D	0.0454 U
2-Methylphenol (O-Cresol)	0.33	100	0.33	MG/KG	0.0514 U	0.308 D	0.0463 U	0.0454 U
2-Nitroaniline	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
2-Nitrophenol	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
3- And 4- Methylphenol (Total)	**0.33**	100	0.33	MG/KG	0.0514 U	**0.665 D**	0.0463 U	0.0454 U
3,3'-Dichlorobenzidine	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
3-Nitroaniline	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
4,6-Dinitro-2-Methylphenol	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
4-Bromophenyl Phenyl Ether	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
4-Chloro-3-Methylphenol	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
4-Chloroaniline	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
4-Chlorophenyl Phenyl Ether	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
4-Nitroaniline	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
4-Nitrophenol	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
Acenaphthene	**20**	100	98	MG/KG	0.0514 U	5.03 D	0.402 D	0.114 D
Acenaphthylene	100	100	107	MG/KG	0.0514 U	0.182 D	0.19 D	0.127 D
Acetophenone	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-1	SB-1	SB-2_1	SB-2_2
				Sample Date:	02/04/2020	02/04/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	0 - 2	11 - 13	0 - 2	0 - 2
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aniline	--	--	--	MG/KG	0.205 U	0.213 U	0.185 U	0.181 U
Anthracene	100	100	1000	MG/KG	0.0755 JD	13.2 D	0.943 D	0.332 D
Atrazine	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Benzaldehyde	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Benzidine	--	--	--	MG/KG	0.205 U	0.213 U	0.185 U	0.181 U
Benzo(A)Anthracene	**1**	1	1	MG/KG	0.37 D	**45.5 D**	**3.72 D**	**1.3 D**
Benzo(A)Pyrene	**1**	1	22	MG/KG	0.395 D	**50 D**	**3.27 D**	**1.35 D**
Benzo(B)Fluoranthene	**1**	1	1.7	MG/KG	0.326 D	**47.9 D**	**3.25 D**	**1.22 D**
Benzo(G,H,I)Perylene	100	100	1000	MG/KG	0.212 D	27.4 D	1.85 D	0.879 D
Benzo(K)Fluoranthene	**0.8**	3.9	1.7	MG/KG	0.322 D	**38.3 D**	**2.63 D**	**0.976 D**
Benzoic Acid	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Benzyl Alcohol	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Benzyl Butyl Phthalate	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Biphenyl (Diphenyl)	--	--	--	MG/KG	0.0514 U	0.78 D	0.0463 U	0.0454 U
Bis(2-Chloroethoxy) Methane	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Bis(2-Chloroisopropyl) Ether	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0532 JD	0.289 D
Caprolactam	--	--	--	MG/KG	0.103 U	0.107 U	0.0924 U	0.0905 U
Carbazole	--	--	--	MG/KG	0.0514 U	7.91 D	0.347 D	0.0454 U
Chrysene	**1**	3.9	1	MG/KG	0.35 D	**44.7 D**	**3.16 D**	**1.23 D**
Dibenz(A,H)Anthracene	**0.33**	0.33	1000	MG/KG	0.102 JD	**12.8 D**	**0.528 D**	0.284 D
Dibenzofuran	**7**	59	210	MG/KG	0.0514 U	3.09 D	0.185 D	0.0557 JD
Diethyl Phthalate	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Dimethyl Phthalate	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Di-N-Butyl Phthalate	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Di-N-Octylphthalate	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Fluoranthene	**100**	100	1000	MG/KG	0.688 D	**112 D**	5.4 D	1.92 D
Fluorene	**30**	100	386	MG/KG	0.0514 U	5.24 D	0.427 D	0.15 D
Hexachlorobenzene	0.33	1.2	3.2	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Hexachlorobutadiene	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Hexachlorocyclopentadiene	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-1	SB-1	SB-2_1	SB-2_2
				Sample Date:	02/04/2020	02/04/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	0 - 2	11 - 13	0 - 2	0 - 2
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Hexachloroethane	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Indeno(1,2,3-C,D)Pyrene	**0.5**	0.5	8.2	MG/KG	0.217 D	**29.2 D**	**2.8 D**	**1.26 D**
Isophorone	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Naphthalene	12	100	12	MG/KG	0.0514 U	7.14 D	0.171 D	0.0572 JD
Nitrobenzene	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
N-Nitrosodimethylamine	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
N-Nitrosodi-N-Propylamine	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
N-Nitrosodiphenylamine	--	--	--	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Pentachlorophenol	0.8	6.7	0.8	MG/KG	0.0514 U	0.0534 U	0.0463 U	0.0454 U
Phenanthrene	**100**	100	1000	MG/KG	0.28 D	60.9 D	3.85 D	1.18 D
Phenol	0.33	100	0.33	MG/KG	0.0514 U	0.285 D	0.0463 U	0.0454 U
Pyrene	**100**	100	1000	MG/KG	0.485 D	58.8 D	5.4 D	2.07 D

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-2_2	SB-3	SB-3	SB-4
				Sample Date:	02/05/2020	02/04/2020	02/04/2020	02/04/2020
				Sample Depth (ft bls):	13 - 15	0 - 2	13 - 15	0 - 2
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,2,4,5-Tetrachlorobenzene	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
1,2-Dichlorobenzene	1.1	100	1.1	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
1,3-Dichlorobenzene	2.4	49	2.4	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
1,4-Dichlorobenzene	1.8	13	1.8	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2,3,4,6-Tetrachlorophenol	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
2,4,5-Trichlorophenol	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2,4,6-Trichlorophenol	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2,4-Dichlorophenol	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2,4-Dimethylphenol	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2,4-Dinitrophenol	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
2,4-Dinitrotoluene	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2,6-Dinitrotoluene	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2-Chloronaphthalene	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2-Chlorophenol	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2-Methylnaphthalene	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2-Methylphenol (O-Cresol)	0.33	100	0.33	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
2-Nitroaniline	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
2-Nitrophenol	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
3- And 4- Methylphenol (Total)	**0.33**	100	0.33	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
3,3'-Dichlorobenzidine	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
3-Nitroaniline	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
4,6-Dinitro-2-Methylphenol	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
4-Bromophenyl Phenyl Ether	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
4-Chloro-3-Methylphenol	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
4-Chloroaniline	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
4-Chlorophenyl Phenyl Ether	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
4-Nitroaniline	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
4-Nitrophenol	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
Acenaphthene	**20**	100	98	MG/KG	0.0608 U	0.229 D	0.0509 U	0.0457 U
Acenaphthylene	100	100	107	MG/KG	0.0608 U	0.381 D	0.326 D	0.346 D
Acetophenone	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-2_2	SB-3	SB-3	SB-4
				Sample Date:	02/05/2020	02/04/2020	02/04/2020	02/04/2020
				Sample Depth (ft bls):	13 - 15	0 - 2	13 - 15	0 - 2
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aniline	--	--	--	MG/KG	0.243 U	0.285 U	0.203 U	0.182 U
Anthracene	100	100	1000	MG/KG	0.151 D	0.917 D	0.154 D	0.206 D
Atrazine	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Benzaldehyde	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Benzidine	--	--	--	MG/KG	0.243 U	0.285 U	0.203 U	0.182 U
Benzo(A)Anthracene	**1**	1	1	MG/KG	0.354 D	**2.57 D**	0.266 D	0.631 D
Benzo(A)Pyrene	**1**	1	22	MG/KG	0.443 D	**2.65 D**	0.874 D	0.799 D
Benzo(B)Fluoranthene	**1**	1	1.7	MG/KG	0.344 D	**2.62 D**	0.775 D	0.765 D
Benzo(G,H,I)Perylene	100	100	1000	MG/KG	0.29 D	1.85 D	0.597 D	0.698 D
Benzo(K)Fluoranthene	**0.8**	3.9	1.7	MG/KG	0.282 D	**2.34 D**	0.479 D	0.65 D
Benzoic Acid	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Benzyl Alcohol	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Benzyl Butyl Phthalate	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Biphenyl (Diphenyl)	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Bis(2-Chloroethoxy) Methane	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Bis(2-Chloroisopropyl) Ether	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	MG/KG	0.0608 U	0.194 D	0.0509 U	0.0457 U
Caprolactam	--	--	--	MG/KG	0.121 U	0.142 U	0.102 U	0.0911 U
Carbazole	--	--	--	MG/KG	0.0608 U	0.397 D	0.0934 JD	0.135 D
Chrysene	**1**	3.9	1	MG/KG	0.364 D	**2.63 D**	0.377 D	0.768 D
Dibenz(A,H)Anthracene	**0.33**	0.33	1000	MG/KG	0.0911 JD	**0.812 D**	0.275 D	0.281 D
Dibenzofuran	**7**	59	210	MG/KG	0.0608 U	0.18 D	0.0509 U	0.0457 U
Diethyl Phthalate	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Dimethyl Phthalate	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Di-N-Butyl Phthalate	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Di-N-Octylphthalate	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Fluoranthene	**100**	100	1000	MG/KG	0.506 D	7.09 D	0.4 D	1.61 D
Fluorene	**30**	100	386	MG/KG	0.0611 JD	0.206 D	0.0509 U	0.0568 JD
Hexachlorobenzene	0.33	1.2	3.2	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Hexachlorobutadiene	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Hexachlorocyclopentadiene	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-2_2	SB-3	SB-3	SB-4
				Sample Date:	02/05/2020	02/04/2020	02/04/2020	02/04/2020
				Sample Depth (ft bls):	13 - 15	0 - 2	13 - 15	0 - 2
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Hexachloroethane	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Indeno(1,2,3-C,D)Pyrene	**0.5**	0.5	8.2	MG/KG	0.402 D	**1.68 D**	**0.613 D**	**0.617 D**
Isophorone	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Naphthalene	12	100	12	MG/KG	0.0608 U	0.0864 JD	0.0509 U	0.0457 U
Nitrobenzene	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
N-Nitrosodimethylamine	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
N-Nitrosodi-N-Propylamine	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
N-Nitrosodiphenylamine	--	--	--	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Pentachlorophenol	0.8	6.7	0.8	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Phenanthrene	**100**	100	1000	MG/KG	0.495 D	4.46 D	0.158 D	0.84 D
Phenol	0.33	100	0.33	MG/KG	0.0608 U	0.0713 U	0.0509 U	0.0457 U
Pyrene	**100**	100	1000	MG/KG	0.53 D	4.48 D	0.303 D	1.12 D

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-4	SB-5	SB-5	SB-5
			Sample Date:		02/04/2020	02/05/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		13 - 15	0 - 2	13 - 15	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	FD
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,2,4,5-Tetrachlorobenzene	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
1,2-Dichlorobenzene	1.1	100	1.1	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
1,3-Dichlorobenzene	2.4	49	2.4	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
1,4-Dichlorobenzene	1.8	13	1.8	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2,3,4,6-Tetrachlorophenol	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
2,4,5-Trichlorophenol	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2,4,6-Trichlorophenol	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2,4-Dichlorophenol	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2,4-Dimethylphenol	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2,4-Dinitrophenol	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
2,4-Dinitrotoluene	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2,6-Dinitrotoluene	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2-Chloronaphthalene	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2-Chlorophenol	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2-Methylnaphthalene	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2-Methylphenol (O-Cresol)	0.33	100	0.33	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
2-Nitroaniline	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
2-Nitrophenol	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
3- And 4- Methylphenol (Total)	**0.33**	100	0.33	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
3,3'-Dichlorobenzidine	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
3-Nitroaniline	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
4,6-Dinitro-2-Methylphenol	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
4-Bromophenyl Phenyl Ether	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
4-Chloro-3-Methylphenol	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
4-Chloroaniline	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
4-Chlorophenyl Phenyl Ether	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
4-Nitroaniline	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
4-Nitrophenol	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
Acenaphthene	**20**	100	98	MG/KG	0.0547 U	0.0624 JD	0.0561 U	0.0574 U
Acenaphthylene	100	100	107	MG/KG	0.0547 U	0.171 D	0.0561 U	0.0574 U
Acetophenone	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-4	SB-5	SB-5	SB-5
				Sample Date:	02/04/2020	02/05/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	13 - 15	0 - 2	13 - 15	13 - 15
				Normal Sample or Field Duplicate:	N	N	N	FD
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aniline	--	--	--	MG/KG	0.219 U	0.184 U	0.224 U	0.229 U
Anthracene	100	100	1000	MG/KG	0.0547 U	0.308 D	0.0561 U	0.0574 U
Atrazine	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Benzaldehyde	--	--	--	MG/KG	0.0777 JD	0.0461 U	0.0561 U	0.0574 U
Benzidine	--	--	--	MG/KG	0.219 U	0.184 U	0.224 U	0.229 U
Benzo(A)Anthracene	**1**	1	1	MG/KG	0.0995 JD	**1.26 D**	0.132 D	0.0574 U
Benzo(A)Pyrene	**1**	1	22	MG/KG	0.104 JD	**1.4 D**	0.151 D	0.0669 JD
Benzo(B)Fluoranthene	**1**	1	1.7	MG/KG	0.101 JD	**1.34 D**	0.148 D	0.0574 U
Benzo(G,H,I)Perylene	100	100	1000	MG/KG	0.0987 JD	0.823 D	0.12 D	0.0574 U
Benzo(K)Fluoranthene	**0.8**	3.9	1.7	MG/KG	0.0908 JD	**1.13 D**	0.112 D	0.0574 U
Benzoic Acid	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Benzyl Alcohol	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Benzyl Butyl Phthalate	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Biphenyl (Diphenyl)	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Bis(2-Chloroethoxy) Methane	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Bis(2-Chloroisopropyl) Ether	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Caprolactam	--	--	--	MG/KG	0.109 U	0.0919 U	0.112 U	0.115 U
Carbazole	--	--	--	MG/KG	0.0547 U	0.0654 JD	0.0561 U	0.0574 U
Chrysene	**1**	3.9	1	MG/KG	0.115 D	**1.29 D**	0.115 D	0.0595 JD
Dibenz(A,H)Anthracene	**0.33**	0.33	1000	MG/KG	0.0547 U	0.199 D	0.0561 U	0.0574 U
Dibenzofuran	**7**	59	210	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Diethyl Phthalate	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Dimethyl Phthalate	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Di-N-Butyl Phthalate	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Di-N-Octylphthalate	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Fluoranthene	**100**	100	1000	MG/KG	0.191 D	2.34 D	0.115 D	0.0574 U
Fluorene	**30**	100	386	MG/KG	0.0547 U	0.094 D	0.0561 U	0.0574 U
Hexachlorobenzene	0.33	1.2	3.2	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Hexachlorobutadiene	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Hexachlorocyclopentadiene	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-4	SB-5	SB-5	SB-5
			Sample Date:		02/04/2020	02/05/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		13 - 15	0 - 2	13 - 15	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	FD
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Hexachloroethane	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Indeno(1,2,3-C,D)Pyrene	**0.5**	0.5	8.2	MG/KG	0.0882 JD	**1.26 D**	0.158 D	0.0595 JD
Isophorone	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Naphthalene	12	100	12	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Nitrobenzene	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
N-Nitrosodimethylamine	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
N-Nitrosodi-N-Propylamine	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
N-Nitrosodiphenylamine	--	--	--	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Pentachlorophenol	0.8	6.7	0.8	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Phenanthrene	**100**	100	1000	MG/KG	0.114 D	1.14 D	0.0561 U	0.0574 U
Phenol	0.33	100	0.33	MG/KG	0.0547 U	0.0461 U	0.0561 U	0.0574 U
Pyrene	**100**	100	1000	MG/KG	0.134 D	2.26 D	0.16 D	0.066 JD

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-6	SB-6	SB-7	SB-7
				Sample Date:	02/05/2020	02/05/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	0 - 2	12 - 14	0 - 2	13 - 15
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,2,4,5-Tetrachlorobenzene	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
1,2-Dichlorobenzene	1.1	100	1.1	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
1,3-Dichlorobenzene	2.4	49	2.4	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
1,4-Dichlorobenzene	1.8	13	1.8	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2,3,4,6-Tetrachlorophenol	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
2,4,5-Trichlorophenol	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2,4,6-Trichlorophenol	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2,4-Dichlorophenol	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2,4-Dimethylphenol	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2,4-Dinitrophenol	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
2,4-Dinitrotoluene	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2,6-Dinitrotoluene	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2-Chloronaphthalene	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2-Chlorophenol	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2-Methylnaphthalene	--	--	--	MG/KG	0.0476 U	0.102 JD	0.0793 JD	8.05 D
2-Methylphenol (O-Cresol)	0.33	100	0.33	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
2-Nitroaniline	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
2-Nitrophenol	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
3- And 4- Methylphenol (Total)	**0.33**	100	0.33	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.308 JD
3,3'-Dichlorobenzidine	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
3-Nitroaniline	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
4,6-Dinitro-2-Methylphenol	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
4-Bromophenyl Phenyl Ether	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
4-Chloro-3-Methylphenol	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
4-Chloroaniline	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
4-Chlorophenyl Phenyl Ether	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
4-Nitroaniline	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
4-Nitrophenol	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
Acenaphthene	**20**	100	98	MG/KG	0.0592 JD	0.0554 U	0.302 D	**21.3 D**
Acenaphthylene	100	100	107	MG/KG	0.154 D	0.0554 U	0.147 D	7.13 D
Acetophenone	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-6	SB-6	SB-7	SB-7
				Sample Date:	02/05/2020	02/05/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	0 - 2	12 - 14	0 - 2	13 - 15
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aniline	--	--	--	MG/KG	0.19 U	0.221 U	0.189 U	1.04 U
Anthracene	100	100	1000	MG/KG	0.256 D	0.0742 JD	0.711 D	40.7 D
Atrazine	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Benzaldehyde	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Benzidine	--	--	--	MG/KG	0.19 U	0.221 U	0.189 U	1.04 U
Benzo(A)Anthracene	**1**	1	1	MG/KG	**1.17 D**	0.33 D	**2.08 D**	**108 D**
Benzo(A)Pyrene	**1**	1	22	MG/KG	**1.08 D**	0.0554 U	**2.05 D**	**110 D**
Benzo(B)Fluoranthene	**1**	1	1.7	MG/KG	1 D	0.0554 U	**1.94 D**	**95.3 D**
Benzo(G,H,I)Perylene	100	100	1000	MG/KG	0.716 D	0.0554 U	1.3 D	64.2 D
Benzo(K)Fluoranthene	**0.8**	3.9	1.7	MG/KG	0.791 D	0.0554 U	**1.41 D**	**83 D**
Benzoic Acid	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Benzyl Alcohol	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Benzyl Butyl Phthalate	--	--	--	MG/KG	0.0476 U	0.0866 JD	0.0474 U	0.261 U
Biphenyl (Diphenyl)	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	1.21 D
Bis(2-Chloroethoxy) Methane	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Bis(2-Chloroisopropyl) Ether	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	MG/KG	0.252 D	0.115 D	0.138 D	0.261 U
Caprolactam	--	--	--	MG/KG	0.0949 U	0.111 U	0.0945 U	0.52 U
Carbazole	--	--	--	MG/KG	0.0857 JD	0.0554 U	0.283 D	13.8 DE
Chrysene	**1**	3.9	1	MG/KG	**1.09 D**	0.0554 U	**1.91 D**	**96.8 D**
Dibenz(A,H)Anthracene	**0.33**	0.33	1000	MG/KG	0.175 D	0.0554 U	**0.443 D**	**19 D**
Dibenzofuran	**7**	59	210	MG/KG	0.0476 U	0.0554 U	0.0474 U	**10.1 D**
Diethyl Phthalate	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Dimethyl Phthalate	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Di-N-Butyl Phthalate	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Di-N-Octylphthalate	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Fluoranthene	**100**	100	1000	MG/KG	1.8 D	0.404 D	3.82 D	**165 DE**
Fluorene	**30**	100	386	MG/KG	0.0797 JD	0.0554 U	0.346 D	**31.6 D**
Hexachlorobenzene	0.33	1.2	3.2	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Hexachlorobutadiene	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Hexachlorocyclopentadiene	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U

Table 2. Summary of Semivolatile Organic Compounds in Soil, 1940 Turnbull Avenue, Bronx, New York

				Sample Designation:	SB-6	SB-6	SB-7	SB-7
				Sample Date:	02/05/2020	02/05/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	0 - 2	12 - 14	0 - 2	13 - 15
				Normal Sample or Field Duplicate:	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Hexachloroethane	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Indeno(1,2,3-C,D)Pyrene	**0.5**	0.5	8.2	MG/KG	**1.02 D**	0.0554 U	**1.88 D**	**92.9 D**
Isophorone	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Naphthalene	12	100	12	MG/KG	0.0476 U	0.0554 U	0.157 D	9.6 D
Nitrobenzene	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
N-Nitrosodimethylamine	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
N-Nitrosodi-N-Propylamine	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
N-Nitrosodiphenylamine	--	--	--	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Pentachlorophenol	0.8	6.7	0.8	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Phenanthrene	**100**	100	1000	MG/KG	0.907 D	0.141 D	2.42 DE	**138 DE**
Phenol	0.33	100	0.33	MG/KG	0.0476 U	0.0554 U	0.0474 U	0.261 U
Pyrene	**100**	100	1000	MG/KG	1.91 D	0.58 D	3.58 D	**165 DE**

Table 3. Summary of Metals in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-1	SB-1	SB-2_1	SB-2_2	SB-2_2	SB-3
			Sample Date:		02/04/2020	02/04/2020	02/05/2020	02/05/2020	02/05/2020	02/04/2020
			Sample Depth (ft bls):		0 - 2	11 - 13	0 - 2	0 - 2	13 - 15	0 - 2
			Normal Sample or Field Duplicate:		N	N	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units						
Aluminum	--	--	--	MG/KG	6510	6340	13400	15000	7.49 U	9690
Antimony	--	--	--	MG/KG	3.09 U	11.5	2.81 U	2.79 U	3.74 U	2.86 U
Arsenic	**13**	16	16	MG/KG	6.67	**74.4**	4.32	4	2.79	6.01
Barium	**350**	400	820	MG/KG	202	**2810**	349	**477**	3.74 U	241
Beryllium	7.2	72	47	MG/KG	0.062 U	0.065 U	0.056 U	0.056 U	0.295	0.057 U
Cadmium	**2.5**	4.3	7.5	MG/KG	1.1	**6.39**	0.581	0.525	0.449 U	1.16
Calcium	--	--	--	MG/KG	46400	64000	27200	24400	7.49 U	29400
Chromium, Total	**30**	180	--	MG/KG	17.1	**43.1**	28	**75.1**	0.749 U	22.1
Cobalt	--	--	--	MG/KG	6.33	19.3	15.6	16.8	0.599 U	9.64
Copper	**50**	270	1720	MG/KG	34.6	**347**	37.3	38.5	2.99 U	**60.7**
Cyanide	27	27	40	MG/KG	0.617 U	0.669	NA	NA	NA	0.571 U
Iron	--	--	--	MG/KG	15000	94400	27500	36000	37.4 U	16800
Lead	**63**	400	450	MG/KG	**292**	**11100**	**457**	**442**	0.749 U	**1220**
Magnesium	--	--	--	MG/KG	4560	23700	8290	8880	17	17400
Manganese	1600	2000	2000	MG/KG	185	635	440	519	0.749 U	382
Mercury	**0.18**	0.81	0.73	MG/KG	**1.79**	**2.34**	**0.22**	**0.221**	**2.38**	**0.7**
Nickel	**30**	310	130	MG/KG	17	**139**	28	**33.1**	4.77	**31.9**
Potassium	--	--	--	MG/KG	1670	1090	6810	6860	114	2540
Selenium	**3.9**	180	4	MG/KG	3.09 U	3.25 U	2.81 U	2.79 U	3.74 U	2.86 U
Silver	**2**	180	8.3	MG/KG	0.617 U	0.65 U	0.561 U	0.557 U	0.749 U	0.571 U
Sodium	--	--	--	MG/KG	228	551	307	462	74.9 U	236
Thallium	--	--	--	MG/KG	3.09 U	11.1	2.81 U	2.79 U	3.74 U	2.86 U
Vanadium	--	--	--	MG/KG	23.6	62.9	57.1	47.8	1.5 U	53.8
Zinc	**109**	10000	2480	MG/KG	**301**	**7250 D**	**349**	**327**	3.74 U	**853**

Table 3. Summary of Metals in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-3	SB-4	SB-4	SB-5	SB-5	SB-5
			Sample Date:		02/04/2020	02/04/2020	02/04/2020	02/05/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		13 - 15	0 - 2	13 - 15	0 - 2	13 - 15	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	N	N	FD
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units						
Aluminum	--	--	--	MG/KG	2990	14600	5450	10900	3890	6090
Antimony	--	--	--	MG/KG	3.12 U	2.81 U	3.35 U	2.78 U	3.37 U	3.54 U
Arsenic	**13**	16	16	MG/KG	2.49	4.67	3.95	7	10.1	10.7
Barium	**350**	400	820	MG/KG	245	**422**	213	287	**939**	**1150**
Beryllium	7.2	72	47	MG/KG	0.062 U	0.056 U	0.067 U	0.056 U	0.145	0.619
Cadmium	**2.5**	4.3	7.5	MG/KG	0.403	0.704	0.713	0.462	1.42	**3.63**
Calcium	--	--	--	MG/KG	2430	32300	59700	79800	7660	4070
Chromium, Total	**30**	180	--	MG/KG	9.65	29	21.4	21.1	22	19.9
Cobalt	--	--	--	MG/KG	4.5	19	4.13	8.27	8.23	7.69
Copper	**50**	270	1720	MG/KG	**81.1**	34.4	**116**	26.9	**87.6**	**352**
Cyanide	27	27	40	MG/KG	0.623 U	0.562 U	0.67 U	NA	NA	NA
Iron	--	--	--	MG/KG	9350	20100	13100	14900	18000	8900
Lead	**63**	400	450	MG/KG	**242**	**711**	**215**	**335**	**263**	**690**
Magnesium	--	--	--	MG/KG	442	14200	26100	22700	514	738
Manganese	1600	2000	2000	MG/KG	51.6	806	260	274	133	69.7
Mercury	**0.18**	0.81	0.73	MG/KG	0.0664	**0.498**	**0.736**	**0.535**	**0.252**	**0.386**
Nickel	**30**	310	130	MG/KG	16.3	23.9	18.1	20.4	29	26.7
Potassium	--	--	--	MG/KG	301	2500	785	2820	376	567
Selenium	**3.9**	180	4	MG/KG	3.12 U	2.81 U	**10.4**	3.17	3.37 U	3.54 U
Silver	**2**	180	8.3	MG/KG	0.623 U	0.562 U	0.67 U	0.556 U	0.673 U	0.708 U
Sodium	--	--	--	MG/KG	244	192	367	634	350	476
Thallium	--	--	--	MG/KG	3.12 U	2.81 U	3.35 U	2.78 U	3.37 U	3.54 U
Vanadium	--	--	--	MG/KG	12.7	40.4	15.1	24.7	18.1	28.3
Zinc	**109**	10000	2480	MG/KG	**354**	**280**	**409**	**221**	**747**	**1060**

Table 3. Summary of Metals in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-6	SB-6	SB-7	SB-7
			Sample Date:		02/05/2020	02/05/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		0 - 2	12 - 14	0 - 2	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aluminum	--	--	--	MG/KG	12200	3910	12400	12800
Antimony	--	--	--	MG/KG	2.9 U	28.7	2.88 U	3.15 U
Arsenic	**13**	16	16	MG/KG	10.4	**21.5**	**16.7**	6.58
Barium	**350**	400	820	MG/KG	228	**665**	**641**	265
Beryllium	7.2	72	47	MG/KG	0.058 U	0.068 U	0.058 U	0.063 U
Cadmium	**2.5**	4.3	7.5	MG/KG	0.408	0.488	0.855	1.65
Calcium	--	--	--	MG/KG	12500	33100	26400	116000
Chromium, Total	**30**	180	--	MG/KG	21	**340**	25.8	26.4
Cobalt	--	--	--	MG/KG	7.05	46.4	8.72	12.6
Copper	**50**	270	1720	MG/KG	48.3	**920**	**135**	**106**
Cyanide	27	27	40	MG/KG	NA	NA	NA	NA
Iron	--	--	--	MG/KG	16700	273000 D	25900	21200
Lead	**63**	400	450	MG/KG	**310**	**1090**	**395**	**233**
Magnesium	--	--	--	MG/KG	3490	2430	4980	72300
Manganese	1600	2000	2000	MG/KG	284	919	343	364
Mercury	**0.18**	0.81	0.73	MG/KG	**0.263**	**1.02**	**0.63**	0.122
Nickel	**30**	310	130	MG/KG	17.8	**2280**	27.3	24.3
Potassium	--	--	--	MG/KG	1650	459	1710	3260
Selenium	**3.9**	180	4	MG/KG	2.9 U	3.4 U	2.88 U	**7.08**
Silver	**2**	180	8.3	MG/KG	0.58 U	**7.83**	0.576 U	0.63 U
Sodium	--	--	--	MG/KG	354	378	200	258
Thallium	--	--	--	MG/KG	2.9 U	37	2.88 U	3.15 U
Vanadium	--	--	--	MG/KG	32.7	35.1	36.7	34.7
Zinc	**109**	10000	2480	MG/KG	**226**	**660**	**571**	**402**

Table 4. Summary of Polychlorinated Biphenyls in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-1	SB-1	SB-2_2	SB-2_2	SB-3
			Sample Date:		02/04/2020	02/04/2020	02/05/2020	02/05/2020	02/04/2020
			Sample Depth (ft bls):		0 - 2	11 - 13	0 - 2	13 - 15	0 - 2
			Normal Sample or Field Duplicate:		N	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units					
PCB-1016 (Aroclor 1016)	--	--	--	MG/KG	0.0203 U	0.0216 U	0.0183 U	0.0246 U	0.0187 U
PCB-1221 (Aroclor 1221)	--	--	--	MG/KG	0.0203 U	0.0216 U	0.0183 U	0.0246 U	0.0187 U
PCB-1232 (Aroclor 1232)	--	--	--	MG/KG	0.0203 U	0.0216 U	0.0183 U	0.0246 U	0.0187 U
PCB-1242 (Aroclor 1242)	--	--	--	MG/KG	0.0203 U	0.0216 U	0.0183 U	0.0246 U	0.0187 U
PCB-1248 (Aroclor 1248)	--	--	--	MG/KG	0.0203 U	0.0216 U	0.0183 U	0.0246 U	0.0187 U
PCB-1254 (Aroclor 1254)	--	--	--	MG/KG	0.0203 U	0.0216 U	0.0183 U	0.0246 U	0.0187 U
PCB-1260 (Aroclor 1260)	--	--	--	MG/KG	0.0448 P	0.0216 U	0.0183 U	0.0246 U	0.0187 U
Polychlorinated Biphenyl (PCBs)	0.1	1	3.2	MG/KG	0.0448 P	0.0216 U	0.0183 U	0.0246 U	0.0187 U

Table 4. Summary of Polychlorinated Biphenyls in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-3	SB-4	SB-4	SB-5	SB-5
			Sample Date:		02/04/2020	02/04/2020	02/04/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		13 - 15	0 - 2	13 - 15	0 - 2	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units					
PCB-1016 (Aroclor 1016)	--	--	--	MG/KG	0.0204 U	0.0187 U	0.0223 U	0.0183 U	0.0224 U
PCB-1221 (Aroclor 1221)	--	--	--	MG/KG	0.0204 U	0.0187 U	0.0223 U	0.0183 U	0.0224 U
PCB-1232 (Aroclor 1232)	--	--	--	MG/KG	0.0204 U	0.0187 U	0.0223 U	0.0183 U	0.0224 U
PCB-1242 (Aroclor 1242)	--	--	--	MG/KG	0.0204 U	0.0187 U	0.0223 U	0.0183 U	0.0224 U
PCB-1248 (Aroclor 1248)	--	--	--	MG/KG	0.0204 U	0.0187 U	0.0223 U	0.0183 U	0.0224 U
PCB-1254 (Aroclor 1254)	--	--	--	MG/KG	0.0204 U	0.0187 U	0.0223 U	0.0183 U	0.0224 U
PCB-1260 (Aroclor 1260)	--	--	--	MG/KG	0.0204 U	0.0187 U	0.0223 U	0.0183 U	0.0224 U
Polychlorinated Biphenyl (PCBs)	0.1	1	3.2	MG/KG	0.0204 U	0.0187 U	0.0223 U	0.0183 U	0.0224 U

Table 4. Summary of Polychlorinated Biphenyls in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-5	SB-6	SB-6	SB-7	SB-7
			Sample Date:		02/05/2020	02/05/2020	02/05/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		13 - 15	0 - 2	12 - 14	0 - 2	13 - 15
			Normal Sample or Field Duplicate:		FD	N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units					
PCB-1016 (Aroclor 1016)	--	--	--	MG/KG	0.023 U	0.0191 U	0.0226 U	0.0187 U	0.0207 U
PCB-1221 (Aroclor 1221)	--	--	--	MG/KG	0.023 U	0.0191 U	0.0226 U	0.0187 U	0.0207 U
PCB-1232 (Aroclor 1232)	--	--	--	MG/KG	0.023 U	0.0191 U	0.0226 U	0.0187 U	0.0207 U
PCB-1242 (Aroclor 1242)	--	--	--	MG/KG	0.023 U	0.0191 U	0.0226 U	0.0187 U	0.0207 U
PCB-1248 (Aroclor 1248)	--	--	--	MG/KG	0.023 U	0.0191 U	0.0226 U	0.0187 U	0.0207 U
PCB-1254 (Aroclor 1254)	--	--	--	MG/KG	0.023 U	0.0191 U	0.0226 U	0.0187 U	0.0207 U
PCB-1260 (Aroclor 1260)	--	--	--	MG/KG	0.023 U	0.0191 U	0.0226 U	0.0187 U	0.0207 U
Polychlorinated Biphenyl (PCBs)	0.1	1	3.2	MG/KG	0.023 U	0.0191 U	0.0226 U	0.0187 U	0.0207 U

Table 5. Summary of Pesticides in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-1	SB-1	SB-2_2	SB-2_2
			Sample Date:		02/04/2020	02/04/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		0 - 2	11 - 13	0 - 2	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aldrin	0.005	0.097	0.19	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.02	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Alpha Endosulfan	2.4	24	102	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.09	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Beta Endosulfan	2.4	24	102	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Chlordane	--	--	--	MG/KG	0.042 D	0.0427 U	0.0363 U	0.0488 U
cis-Chlordane	0.094	4.2	2.9	MG/KG	0.00862 DP	0.00214 U	0.00605 DP	0.00244 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.25	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Dieldrin	0.005	0.2	0.1	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Endosulfan Sulfate	2.4	24	1000	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Endrin	0.014	11	0.06	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Endrin Aldehyde	--	--	--	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Endrin Ketone	--	--	--	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Gamma Bhc (Lindane)	0.1	1.3	0.1	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Heptachlor	0.042	2.1	0.38	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Heptachlor Epoxide	--	--	--	MG/KG	0.00201 U	0.00214 U	0.00181 U	0.00244 U
Methoxychlor	--	--	--	MG/KG	0.01 U	0.0107 U	0.00907 U	0.0122 U
P,P'-DDD	**0.0033**	13	14	MG/KG	0.00201 U	**0.00689 D**	0.00181 U	0.00244 U
P,P'-DDE	**0.0033**	8.9	17	MG/KG	**0.0461 D**	**0.0123 D**	0.00181 U	0.00244 U
P,P'-DDT	**0.0033**	7.9	136	MG/KG	**0.0332 D**	**0.0249 D**	**0.0131 D**	0.00244 U
Toxaphene	--	--	--	MG/KG	0.102 U	0.108 U	0.0918 U	0.123 U

Table 5. Summary of Pesticides in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-3	SB-3	SB-4	SB-4
			Sample Date:		02/04/2020	02/04/2020	02/04/2020	02/04/2020
			Sample Depth (ft bls):		0 - 2	13 - 15	0 - 2	13 - 15
			Normal Sample or Field Duplicate:		N	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aldrin	0.005	0.097	0.19	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.02	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Alpha Endosulfan	2.4	24	102	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.09	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Beta Endosulfan	2.4	24	102	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Chlordane	--	--	--	MG/KG	0.037 U	0.0405 U	0.037 U	0.0441 U
cis-Chlordane	0.094	4.2	2.9	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.25	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Dieldrin	0.005	0.2	0.1	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Endosulfan Sulfate	2.4	24	1000	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Endrin	0.014	11	0.06	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Endrin Aldehyde	--	--	--	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Endrin Ketone	--	--	--	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Gamma Bhc (Lindane)	0.1	1.3	0.1	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Heptachlor	0.042	2.1	0.38	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Heptachlor Epoxide	--	--	--	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Methoxychlor	--	--	--	MG/KG	0.00924 U	0.0101 U	0.00925 U	0.011 U
P,P'-DDD	**0.0033**	13	14	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
P,P'-DDE	**0.0033**	8.9	17	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
P,P'-DDT	**0.0033**	7.9	136	MG/KG	0.00185 U	0.00202 U	0.00185 U	0.0022 U
Toxaphene	--	--	--	MG/KG	0.0936 U	0.102 U	0.0936 U	0.112 U

Table 5. Summary of Pesticides in Soil, 1940 Turnbull Avenue, Bronx, New York

			Sample Designation:		SB-5	SB-5	SB-5	SB-6
			Sample Date:		02/05/2020	02/05/2020	02/05/2020	02/05/2020
			Sample Depth (ft bls):		0 - 2	13 - 15	13 - 15	0 - 2
			Normal Sample or Field Duplicate:		N	N	FD	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aldrin	0.005	0.097	0.19	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.02	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Alpha Endosulfan	2.4	24	102	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.09	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Beta Endosulfan	2.4	24	102	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Chlordane	--	--	--	MG/KG	0.0362 U	0.0443 U	0.0455 U	0.0378 U
cis-Chlordane	0.094	4.2	2.9	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.25	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Dieldrin	0.005	0.2	0.1	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Endosulfan Sulfate	2.4	24	1000	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Endrin	0.014	11	0.06	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Endrin Aldehyde	--	--	--	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Endrin Ketone	--	--	--	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Gamma Bhc (Lindane)	0.1	1.3	0.1	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Heptachlor	0.042	2.1	0.38	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Heptachlor Epoxide	--	--	--	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
Methoxychlor	--	--	--	MG/KG	0.00906 U	0.0111 U	0.0114 U	0.00945 U
P,P'-DDD	**0.0033**	13	14	MG/KG	0.00181 U	0.00221 U	0.00227 U	0.00189 U
P,P'-DDE	**0.0033**	8.9	17	MG/KG	0.00181 U	0.00221 U	0.00227 U	**0.0655 D**
P,P'-DDT	**0.0033**	7.9	136	MG/KG	0.00181 U	0.00221 U	0.00227 U	**0.0231 D**
Toxaphene	--	--	--	MG/KG	0.0917 U	0.112 U	0.115 U	0.0957 U

Table 5. Summary of Pesticides in Soil, 1940 Turnbull Avenue, Bronx, New York

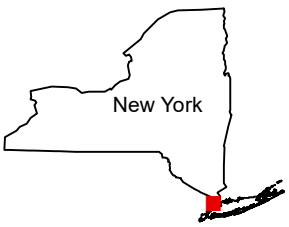
				Sample Designation:	SB-6	SB-7	SB-7
				Sample Date:	02/05/2020	02/05/2020	02/05/2020
				Sample Depth (ft bls):	12 - 14	0 - 2	13 - 15
				Normal Sample or Field Duplicate:	N	N	N
Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Residential SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units			
Aldrin	0.005	0.097	0.19	MG/KG	0.00224 U	0.00185 U	0.00205 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	0.48	0.02	MG/KG	0.00224 U	0.00185 U	0.00205 U
Alpha Endosulfan	2.4	24	102	MG/KG	0.00224 U	0.00185 U	0.00205 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	0.36	0.09	MG/KG	0.00224 U	0.00185 U	0.00205 U
Beta Endosulfan	2.4	24	102	MG/KG	0.00224 U	0.00185 U	0.00205 U
Chlordane	--	--	--	MG/KG	0.0447 U	0.0729 D	0.041 U
cis-Chlordane	0.094	4.2	2.9	MG/KG	0.00224 U	0.0102 DP	0.00205 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	100	0.25	MG/KG	0.00224 U	0.00185 U	0.00205 U
Dieldrin	0.005	0.2	0.1	MG/KG	0.00224 U	0.00185 U	0.00205 U
Endosulfan Sulfate	2.4	24	1000	MG/KG	0.00224 U	0.00185 U	0.00205 U
Endrin	0.014	11	0.06	MG/KG	0.00224 U	0.00185 U	0.00205 U
Endrin Aldehyde	--	--	--	MG/KG	0.00224 U	0.00185 U	0.00205 U
Endrin Ketone	--	--	--	MG/KG	0.00224 U	0.00185 U	0.00205 U
Gamma Bhc (Lindane)	0.1	1.3	0.1	MG/KG	0.00224 U	0.00185 U	0.00205 U
Heptachlor	0.042	2.1	0.38	MG/KG	0.00224 U	0.00185 U	0.00205 U
Heptachlor Epoxide	--	--	--	MG/KG	0.00224 U	0.00185 U	0.00205 U
Methoxychlor	--	--	--	MG/KG	0.0112 U	0.00926 U	0.0103 U
P,P'-DDD	**0.0033**	13	14	MG/KG	0.00224 U	**0.00554 D**	0.00205 U
P,P'-DDE	**0.0033**	8.9	17	MG/KG	0.00224 U	**0.0367 D**	**0.00668 D**
P,P'-DDT	**0.0033**	7.9	136	MG/KG	0.00224 U	**0.0691 D**	0.00205 U
Toxaphene	--	--	--	MG/KG	0.113 U	0.0937 U	0.104 U

Notes Utilized Throughout Tables	
Soil Tables	
J -	Estimated value
U -	Indicates that the compound was analyzed for but not detected
D -	A secondary analysis after dilution due to exceedance of the calibration range in the original sample.
E -	Indicates value exceeded calibration range
P -	The RPD between the results for the two columns exceeds the method-specified criteria
I -	The lower value for the two columns has been reported due to obvious interference
RPD -	Relative Percent Difference
ft bls -	Feet below land surface
FD -	Duplicate sample
mg/kg -	Milligrams per kilogram
NYSDEC -	New York State Department of Environmental Conservation
SCO -	Soil Cleanup Objectives
--	No SCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO	
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO	
Red data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater SCO	

FIGURES

1. Site Location Map
2. Summary of Soil Exceedances

QUADRANGLE LOCATION



N

1,000 0 1,000'

Title:

SITE LOCATION MAP

1940 Turnbull Avenue
Bronx, NY

Prepared for:

PL PRESERVATION LLC

ROUX

Compiled by: K.S.	Date: 03/25/20
Prepared by: J.R.	Scale: AS SHOWN
Project Mgr: K.S.	Project: 3475.0001Y000
File: 3475.0001Y103.1.mxd	

FIGURE 1

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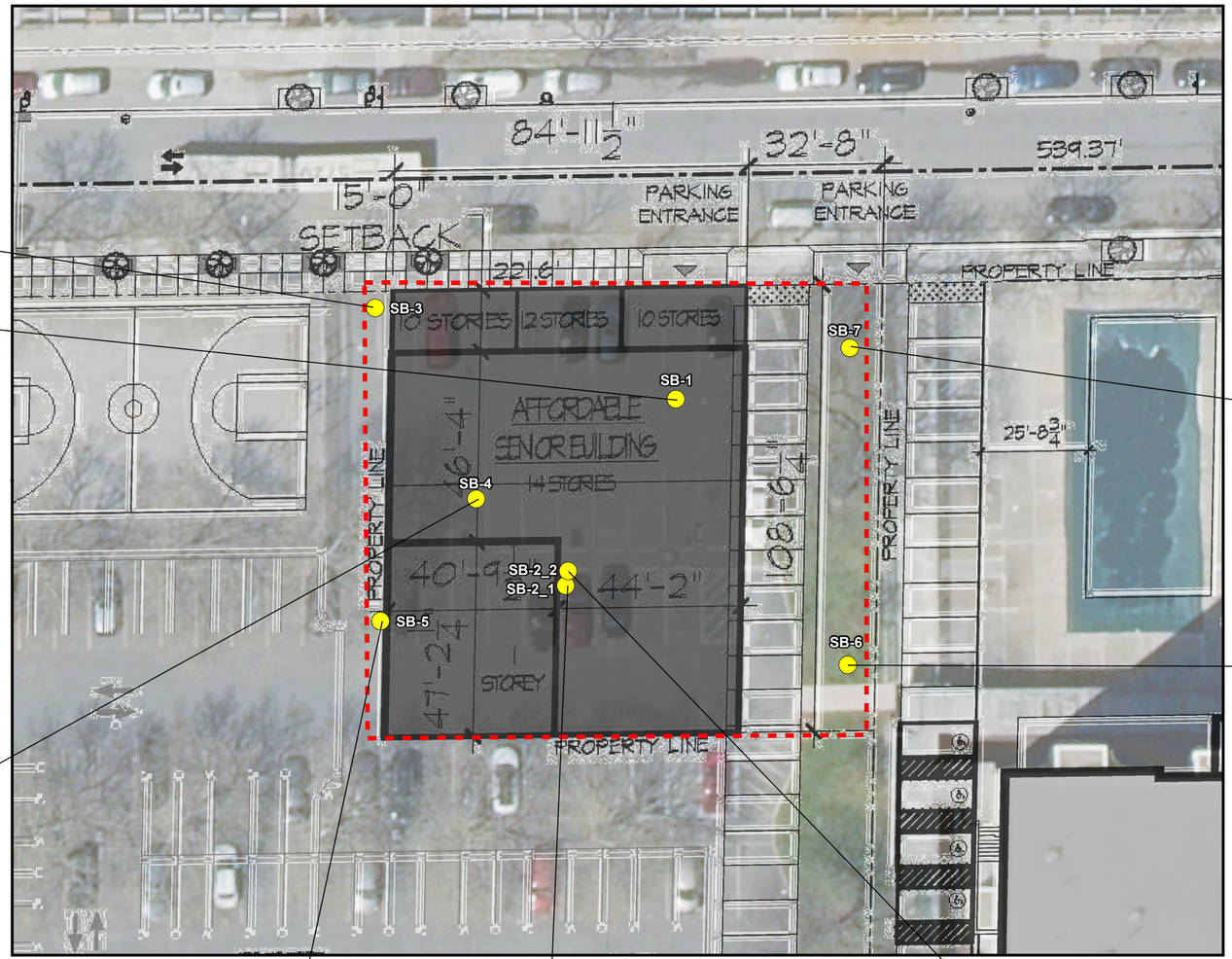

SB-3	02/04/2020	02/04/2020
Depth (ft bls)	0 - 2	13 - 15
VOCs		
Acetone	NE	**0.082**
SVOCs		
Benzo(A)Anthracene	**2.57 D**	NE
Benzo(A)Pyrene	**2.65 D**	NE
Benzo(B)Fluoranthene	**2.62 D**	NE
Benzo(K)Fluoranthene	**2.34 D**	NE
Chrysene	**2.63 D**	NE
Dibenz(A,H)Anthracene	**0.812 D**	NE
Indeno(1,2,3-C,D)Pyrene	**1.68 D**	**0.613 D**
Metals		
Copper	**60.7**	**81.1**
Lead	**1220**	**242**
Mercury	**0.7**	NE
Nickel	**31.9**	NE
Zinc	**853**	**354**

SB-1	02/04/2020	02/04/2020
Depth (ft bls)	0 - 2	11 - 13
VOCs		
Acetone	NE	**0.062**
SVOCs		
3- And 4- Methylphenol (Total)	NE	**0.665 D**
Benzo(A)Anthracene	NE	**45.5 D**
Benzo(A)Pyrene	NE	**50 D**
Benzo(B)Fluoranthene	NE	**47.9 D**
Benzo(K)Fluoranthene	NE	**38.3 D**
Chrysene	NE	**44.7 D**
Dibenz(A,H)Anthracene	NE	**12.8 D**
Fluoranthene	NE	**112 D**
Indeno(1,2,3-C,D)Pyrene	NE	**29.2 D**
Metals		
Arsenic	NE	**74.4**
Barium	NE	**2810**
Cadmium	NE	**6.39**
Chromium, Total	NE	**43.1**
Copper	NE	**347**
Lead	**292**	**11100**
Mercury	**1.79**	**2.34**
Nickel	NE	**139**
Zinc	**301**	**7250 D**
Pesticides		
P,P'-DDD	NE	**0.00689 D**
P,P'-DDE	**0.0461 D**	**0.0123 D**
P,P'-DDT	**0.0332 D**	**0.0249 D**

SB-4	02/04/2020	02/04/2020
Depth (ft bls)	0 - 2	13 - 15
VOCs		
Acetone	NE	**0.092**
SVOCs		
Indeno(1,2,3-C,D)Pyrene	**0.617 D**	NE
Metals		
Barium	**422**	NE
Copper	NE	**116**
Lead	**711**	**215**
Mercury	**0.498**	**0.736**
Selenium	NE	**10.4**
Zinc	**280**	**409**

SB-5	02/05/2020	02/05/2020	02/05/2020
Depth (ft bls)	0 - 2	13 - 15	13 - 15 FD
VOCs			
Acetone	NE	**0.07**	NE
SVOCs			
Benzo(A)Anthracene	**1.26 D**	NE	NE
Benzo(A)Pyrene	**1.4 D**	NE	NE
Benzo(B)Fluoranthene	**1.34 D**	NE	NE
Benzo(K)Fluoranthene	**1.13 D**	NE	NE
Chrysene	**1.29 D**	NE	NE
Indeno(1,2,3-C,D)Pyrene	**1.26 D**	NE	NE
Metals			
Barium	NE	**939**	**1150**
Cadmium	NE	NE	**3.63**
Copper	NE	**87.6**	**352**
Lead	**335**	**263**	**690**
Mercury	**0.535**	**0.252**	**0.386**
Zinc	**221**	**747**	**1060**

SB-2_1	02/05/2020
Depth (ft bls)	0 - 2
SVOCs	
Benzo(A)Anthracene	**3.72 D**
Benzo(A)Pyrene	**3.27 D**
Benzo(B)Fluoranthene	**3.25 D**
Benzo(K)Fluoranthene	**2.63 D**
Chrysene	**3.16 D**
Dibenz(A,H)Anthracene	**0.528 D**
Indeno(1,2,3-C,D)Pyrene	**2.8 D**
METALS	
Lead	**457**
Mercury	**0.22**
Zinc	**349**

SB-2_2	02/05/2020	02/05/2020
Depth (ft bls)	0 - 2	13 - 15
VOCs		
Acetone	NE	**0.13**
SVOCs		
Benzo(A)Anthracene	**1.3 D**	NE
Benzo(A)Pyrene	**1.35 D**	NE
Benzo(B)Fluoranthene	**1.22 D**	NE
Benzo(K)Fluoranthene	**0.976 D**	NE
Chrysene	**1.23 D**	NE
Indeno(1,2,3-C,D)Pyrene	**1.26 D**	NE
METALS		
Barium	**477**	NE
Chromium, Total	**75.1**	NE
Lead	**442**	NE
Mercury	**0.221**	**2.38**
Nickel	**33.1**	NE
Zinc	**327**	NE
PEST		
P,P'-DDT	**0.0131 D**	NE

SB-6	02/05/2020	02/05/2020
Depth (ft bls)	0 - 2	12 - 14
VOCs		
Acetone	NE	**0.071**
SVOCs		
Benzo(A)Anthracene	**1.17 D**	NE
Benzo(A)Pyrene	**1.08 D**	NE
Chrysene	**1.09 D**	NE
Indeno(1,2,3-C,D)Pyrene	**1.02 D**	NE
Metals		
Arsenic	NE	**21.5**
Barium	NE	**665**
Chromium, Total	NE	**340**
Copper	NE	**920**
Lead	**310**	**1090**
Mercury	**0.263**	**1.02**
Nickel	NE	**2280**
Silver	NE	**7.83**
Zinc	**226**	**660**
Pesticides		
P,P'-DDE	**0.0655 D**	NE
P,P'-DDT	**0.0231 D**	NE

SB-7	02/05/2020	02/05/2020
Depth (ft bls)	0 - 2	13 - 15
VOCs		
Acetone	NE	**0.055**
SVOCs		
Acenaphthene	NE	**21.3 D**
Benzo(A)Anthracene	**2.08 D**	**108 D**
Benzo(A)Pyrene	**2.05 D**	**110 D**
Benzo(B)Fluoranthene	**1.94 D**	**95.3 D**
Benzo(K)Fluoranthene	**1.41 D**	**83 D**
Chrysene	**1.91 D**	**96.8 D**
Dibenz(A,H)Anthracene	**0.443 D**	**19 D**
Dibenzofuran	NE	**10.1 D**
Fluoranthene	NE	**165 DE**
Fluorene	NE	**31.6 D**
Indeno(1,2,3-C,D)Pyrene	**1.88 D**	**92.9 D**
Phenanthrene	NE	**138 DE**
Pyrene	NE	**165 DE**
Metals		
Arsenic	**16.7**	NE
Barium	**641**	NE
Copper	**135**	**106**
Lead	**395**	**233**
Mercury	**0.63**	NE
Selenium	NE	**7.08**
Zinc	**571**	**402**
Pesticides		
P,P'-DDD	**0.00554 D**	NE
P,P'-DDE	**0.0367 D**	**0.00668 D**
P,P'-DDT	**0.0691 D**	NE

LEGEND

- LOCATION OF SOIL BORING
- PROPOSED SENIOR HOUSING DEVELOPMENT TAX LOT

Parameter	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	NYSDEC Part 375 Protection of Groundwater Soil Cleanup Objectives
VOCs			
Acetone	**0.05**	100	0.05
SVOCs			
3- And 4- Methylphenol (Total)	**0.33**	100	0.33
Acenaphthene	**20**	100	98
Benzo(A)Anthracene	**1**	1	1
Benzo(A)Pyrene	**1**	1	22
Benzo(B)Fluoranthene	**1**	1	1.7
Benzo(K)Fluoranthene	**0.8**	3.9	1.7
Chrysene	**1**	3.9	1
Dibenz(A,H)Anthracene	**0.33**	0.33	1000
Dibenzofuran	**7**	59	210
Fluoranthene	**100**	100	1000
Fluorene	**30**	100	386
Indeno(1,2,3-C,D)Pyrene	**0.5**	0.5	8.2
Phenanthrene	**100**	100	1000
Pyrene	**100**	100	1000
Metals			
Arsenic	**13**	16	16
Barium	**350**	400	820
Cadmium	**2.5**	4.3	7.5
Chromium, Total	**30**	180	
Copper	**50**	270	1720
Lead	**63**	400	450
Mercury	**0.18**	0.81	0.73
Nickel	**30**	310	130
Selenium	**3.9**	180	4
Silver	**2**	180	8.3
Zinc	**109**	10000	2480
Pesticides			
P,P'-DDD	**0.0033**	13	14
P,P'-DDE	**0.0033**	8.9	17
P,P'-DDT	**0.0033**	7.9	136

NOTES

1. ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM
2. BOLD DATA INDICATES AN EXCEEDANCE OF NYSDEC PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
3. SHADED DATA INDICATES AN EXCEEDANCE OF NYSDEC PART 375 RESIDENTIAL SOIL CLEANUP OBJECTIVES
4. RED DATA INDICATES AN EXCEEDANCE OF NYSDEC PART 375 RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES

D - A SECONDARY ANALYSIS AFTER DILUTION DUE TO EXCEEDANCE OF THE CALIBRATION RANGE IN THE ORIGINAL SAMPLE
FT BLS - FEET BELOW LAND SURFACE
NE - NO EXCEEDANCE
NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SVOC - SEMIVOLATILE ORGANIC COMPOUNDS
VOC - VOLATILE ORGANIC COMPOUNDS
FD - FIELD DUPLICATE

25 0 25'

Title:

SUMMARY OF SOIL EXCEEDANCES

1940 TURNBULL AVE
BRONX, NY

Prepared for:

PL PRESERVATION LLC

ROUX

Compiled by: K.S.	Date: 03/13/20
Prepared by: J.R.	Scale: AS SHOWN
Project Mgr: K.S.	Project: 3475.0001Y000
File: 3475.0001Y103.2.mxd	

PLATE 1

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APPENDICES

1. Soil Boring Logs
2. Laboratory Analytical Reports

APPENDIX A

Soil Boring Logs

SB-1

Client: PL Senior LLC	Site: Lafayette	Project Number: 3475.0001y000
Address: 1965 Lafayette Avenue	City/State: Bronx, NY	Logged By: S. Stern

Start to Finish Date: 2/4/2020 - 2/4/2020	Contractor: Trinity	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 15 feet	Backfill: Cuttings	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	ASPH		ASPHALT.				
	MIXD		Brown, fine to medium SAND, little Gravel, trace silt, brick, tile, and asphalt (FILL); moist.			0.0	Collect sample SB-1(0-2).
	MIXD		Dark brown, fine to coarse SAND, some Gravel, little Silt, trace brick, tile, and asphalt (FILL);	G	5	0.0	
	MIXD		Light Brown, fine to medium SAND, little Gravel, trace silt, brick, tile, and asphalt (FILL); moist.			0.0	
5	MIXD		Brown, medium to coarse SAND, some Gravel, little Brick, Asphalt, Tile, and Concrete, trace silt (FILL); moist.			0.2	
	MIXD		Dark Brown, fine to medium SAND, little Silt, Brick, and Asphalt (FILL); moist.			0.0	
	MIXD		Grey, fine SAND and SILT, trace asphalt (FILL); moist.		3	0.0	
	MIXD		Reddish Brown, fine to medium SAND, little Asphalt and Wood (FILL); moist.			0.0	
10	MIXD		Brown, medium to coarse SAND, some Gravel, trace silt, brick, and asphalt (FILL); moist.			0.0	
	MIXD		Dark brown, fine to medium SAND, little Gravel, trace wood (FILL); wet.		2	0.1	Collect sample SB-1(11-13). Slight odor and possible staining observed. Water table encountered at 12' bls.
			No Recovery.			3.0	

Bottom of borehole at 15 feet

SB-2_1

Client: PL Senior LLC	Site: Lafayette	Project Number: 3475.0001y000
Address: 1965 Lafayette Avenue	City/State: Bronx, NY	Logged By: S. Stern

Start to Finish Date: 2/5/2020 - 2/5/2020	Contractor: Trinity	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 6 feet	Backfill: Cuttings	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	ASPH		ASPHALT.				
	MIXD		Brown, fine to coarse SAND, some Gravel, trace brick, asphalt, and concrete (FILL); moist.	G	5		Collect sample SB-1(0-2)_1.
5					1		Hit refusal at 6' bls.

Bottom of borehole at 6 feet

SB-2_2

Client: PL Senior LLC	Site: Lafayette	Project Number: 3475.0001y000
Address: 1965 Lafayette Avenue	City/State: Bronx, NY	Logged By: S. Stern

Start to Finish Date: 2/5/2020 - 2/5/2020	Contractor: Trinity	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 15 feet	Backfill: Cuttings	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	ASPH		ASPHALT.				
	MIXD		Brown, fine to coarse SAND, some Gravel, trace brick, asphalt, and concrete (FILL); moist.	G	5	0.0 0.0 0.0 0.0	Collect sample SB-2(0-2)_2.
5	MIXD		Brown to light brown, fine to coarse SAND, trace gravel, silt, asphalt, and brick (FILL); moist.		2.5	0.0 0.0 0.0	
	MIXD		Dark brown, fine to coarse SAND, trace gravel, silt, asphalt, and brick (FILL); moist.				
10	MIXD		Dark brown to black, medium to coarse SAND and GRAVEL, trace silt, brick, and asphalt (FILL); moist.			0.0	Slight odor observed.
	MIXD		Dark brown to black, medium to coarse SAND and GRAVEL, trace silt, brick, and asphalt (FILL); wet.		2	0.0 0.0 0.2	Water table encountered at 11' bls. Collect sample SB-2(13-15).
			Bottom of borehole at 15 feet				

SB-3

Client: PL Senior LLC	Site: Lafayette	Project Number: 3475.0001y000
Address: 1965 Lafayette Avenue	City/State: Bronx, NY	Logged By: S. Stern

Start to Finish Date: 2/4/2020 - 2/4/2020	Contractor: Trinity	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 15 feet	Backfill: Cuttings	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	ASPH		ASPHALT.				
	MIXD		Brown, medium to coarse SAND, some Gravel, trace silt, brick, and asphalt (FILL); moist.	G	5	0.0 0.0 0.0 0.0 0.0	Collect sample SB-3(0-2).
5			No Recovery.			0.0	
	MIXD		Brown to dark brown, medium to coarse SAND, little Gravel, trace silt, brick, and concrete (FILL); moist.		2	0.6	
			Brown, medium to coarse SAND, little Gravel, Brick, and Asphalt, trace silt (FILL); moist.			0.1	
10	MIXD					0.0 0.0	
	MIXD		Dark Brown, medium to coarse SAND, some Gravel, trace silt, brick, and glass (FILL); very moist.		2.5	0.1 0.5	Slight odor observed. Collect sample SB-3(13-15).

Bottom of borehole at 15 feet

SB-4

Client: PL Senior LLC	Site: Lafayette	Project Number: 3475.0001y000
Address: 1965 Lafayette Avenue	City/State: Bronx, NY	Logged By: S. Stern

Start to Finish Date: 2/4/2020 - 2/4/2020	Contractor: Trinity	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 15 feet	Backfill: Cuttings	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	ASPH		ASPHALT.				
	MIXD		Brown, fine to medium SAND, little Gravel and Silt, trace brick and asphalt (FILL); moist.			0.0	Collect sample SB-4(0-2).
	MIXD		Light brown, fine to medium SAND, little Gravel, trace silt, brick, and asphalt (FILL); moist.			0.0	
	MIXD		Brown, fine to medium SAND, little Gravel and Silt, trace brick and asphalt (FILL); moist.	G	5	0.0	
5	MIXD		Brown, medium to coarse SAND, some Gravel, trace brick, tile, and asphalt (FILL); moist.			0.0	
	MIXD		CRUSHED ROCK.		3	0.0	
	MIXD		Dark brown, medium to coarse SAND, little Asphalt and Gravel, trace silt and brick (FILL); moist.			0.1	
10	MIXD		Light brown, fine to medium SAND, little Gravel, trace asphalt (FILL); moist.			0.0	
	MIXD		Red, medium to coarse SAND and BRICK (FILL); moist.		2.5	0.0	
	MIXD		Dark Brown, medium to coarse SAND and GRAVEL, trace organics and asphalt (FILL); wet.			0.1	Collect sample SB-4(13-15). Slight odor observed. Water table encountered at 13' bls.
			Bottom of borehole at 15 feet			0.0	

SB-5

Client: PL Senior LLC	Site: Lafayette	Project Number: 3475.0001y000
Address: 1965 Lafayette Avenue	City/State: Bronx, NY	Logged By: S. Stern

Start to Finish Date: 2/5/2020 - 2/5/2020	Contractor: Trinity	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 15 feet	Backfill: Cuttings	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	ASPH	ASHALT.				
	MIXD	Light brown, fine to coarse SAND, little Gravel, trace silt, brick, asphalt, and concrete (FILL); moist.			0.0	Collect sample SB-5(0-2).
		Brown, fine to medium SAND, little Gravel, trace silt, brick, concrete, and asphalt (FILL); moist.	G	5	0.0	
	MIXD				0.0	
					0.0	
5					0.0	
	MIXD	Dark brown to light brown, fine to medium SAND, some Brick, trace silt, gravel, and asphalt (FILL); moist.			0.0	
		Dark grey, fine SAND and SILT, trace medium to coarse sand and brick (FILL); moist.		3	0.0	
	MIXD				0.0	
	MIXD	Reddish brown, medium to coarse SAND, trace wood, brick, and asphalt (FILL); moist.			0.0	
10					0.0	
	MIXD	Light brown and red, fine to medium SAND and BRICK (FILL); moist.			0.0	
	MIXD	Dark grey, medium to coarse SAND and GRAVEL, trace silt, concrete, brick, wood; moist.			0.0	
		Dark grey, medium to coarse SAND and GRAVEL, trace silt, concrete, brick, wood; wet.		3		Water table encountered at 12' bls.
	MIXD				0.0	Collect samples SB-5(13-15) and DUP-020520.
					0.0	
		Bottom of borehole at 15 feet				

SB-6

Client: PL Senior LLC	Site: Lafayette	Project Number: 3475.0001y000
Address: 1965 Lafayette Avenue	City/State: Bronx, NY	Logged By: S. Stern

Start to Finish Date: 2/5/2020 - 2/5/2020	Contractor: Trinity	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 15 feet	Backfill: Cuttings	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	MIXD		Dark brown, fine to coarse SAND, little Gravel and Silt, trace brick and asphalt (FILL); moist.			0.0	Collect sample SB-6(0-2).
	MIXD		Dark brown, fine to coarse SAND, little Gravel, Brick, and Silt, trace asphalt (FILL); moist.	G	5	0.0	
	MIXD		Light brown to brown, fine to coarse SAND, little Gravel and Silt, trace brick and asphalt (FILL); moist.			0.0	
5	MIXD		Dark brown, medium to coarse SAND, some Gravel, little Brick and Asphalt, trace silt (FILL); moist.			0.0	
	MIXD		CRUSHED ROCK and CONCRETE (FILL).		2	0.0	
10	MIXD		Dark brown, medium to coarse SAND, some Gravel, trace brick, asphalt, and concrete (FILL); moist.			0.0	Collect sample SB-6(12-14). Slight odor observed.
	MIXD		Dark grey to black, fine SAND and SILT (FILL); wet.		3	0.4	Water table encountered.
	MIXD		Dark brown, medium to coarse SAND, some Brick, trace silt (FILL); wet.			0.2	

Bottom of borehole at 15 feet

SB-7

Client: PL Senior LLC	Site: Lafayette	Project Number: 3475.0001y000	
Address: 1965 Lafayette Avenue	City/State: Bronx, NY	Logged By: S. Stern	
Start to Finish Date: 2/5/2020 - 2/5/2020	Contractor: Trinity	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 15 feet	Backfill: Cuttings	Borehole Diameter: 3-inches	DTW:
Area: NM	Elevation: NM	Northing: NM	Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	MIXD		Brown, medium to coarse SAND, little Gravel, trace silt, brick, and asphalt (FILL); moist.			0.0	Collect sample SB-7(0-2).
			Light brown, medium to coarse SAND, some Gravel, little concrete and tile (FILL); moist.	G	5	0.0	
	MIXD					0.0	
						0.0	
5			Grey to brown, medium to coarse SAND, some Gravel and Concrete, trace silt and brick (FILL); moist.			0.0	
	MIXD					0.0	
					3	0.0	
	MIXD		Dark brown to black, fine to medium SAND, some Silt, trace brick and asphalt (FILL); moist.				
10			Brownish grey, fine SAND and SILT, trace brick and asphalt (FILL); moist.			0.0	
	MIXD					0.0	
					3	0.0	
	MIXD		Dark grey to black, fine to medium SAND, some Silt, trace peat and asphalt (FILL); wet.			0.4	Collect sample SB-7(13-15). Slight odor observed. Water table encountered at 13' bls.
			Bottom of borehole at 15 feet				

APPENDIX B

Laboratory Analytical Reports

Table of Contents for York SDG 20B0093

Technical Report

prepared for:

Roux Associates
209 Shafter Street
Islandia NY, 11749
Attention: Kathryn Sommo

Report Date: 02/25/2020
Client Project ID: 3475.00014000 Lafayette
York Project (SDG) No.: 20B0093

Report Date: 02/25/2020
Client Project ID: 3475.00014000 Lafayette
York Project (SDG) No.: 20B0093

Roux Associates
209 Shafter Street
Islandia NY, 11749
Attention: Kathryn Sommo

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 February 04, 2020 and listed below. The project was identified as your project: **3475.00014000 Lafayette**.

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
20B0093-01	SB-1 (0-2)	Soil	02/04/2020	02/04/2020
20B0093-02	SB-1 (11-13)	Soil	02/04/2020	02/04/2020
20B0093-03	SB-3 (0-2)	Soil	02/04/2020	02/04/2020
20B0093-04	Trip Blank	Water	02/04/2020	02/04/2020
20B0093-05	SB-3 (13-15)	Soil	02/04/2020	02/04/2020
20B0093-06	SB-4 (0-2)	Soil	02/04/2020	02/04/2020
20B0093-07	SB-4 (13-15)	Soil	02/04/2020	02/04/2020

General Notes for York Project (SDG) No.: 20B0093

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: 02/25/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	5.2	10	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	**Methylene chloride**	**8.4**	J	ug/kg dry	5.2	10	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	26	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH			
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:15	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.3 %*	*76-130*

Sample Information

Client Sample ID: SB-1 (0-2)

York Sample ID: 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
106-47-8	4-Chloroaniline	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-01-6	4-Nitroaniline	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-02-7	4-Nitrophenol	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
83-32-9	Acenaphthene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	Acenaphthylene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-86-2	Acetophenone	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
62-53-3	Aniline	ND		ug/kg dry	205	411	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-12-7	**Anthracene**	**75.5**	J	ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1912-24-9	Atrazine	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
92-87-5	Benzidine	ND		ug/kg dry	205	411	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,PADEP			
56-55-3	**Benzo(a)anthracene**	**370**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-32-8	**Benzo(a)pyrene**	**395**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
205-99-2	**Benzo(b)fluoranthene**	**326**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
191-24-2	**Benzo(g,h,i)perylene**	**212**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
207-08-9	**Benzo(k)fluoranthene**	**322**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65-85-0	Benzoic acid	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-51-6	Benzyl alcohol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
85-68-7	Benzyl butyl phthalate	ND	CCV-L	ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-81-7	Bis(2-ethylhexyl)phthalate	ND	CCV-L	ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-60-2	Caprolactam	ND		ug/kg dry	103	205	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
86-74-8	Carbazole	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
218-01-9	**Chrysene**	**350**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	**Dibenzo(a,h)anthracene**	**102**	CCV-H, J	ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
132-64-9	Dibenzofuran	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-66-2	Diethyl phthalate	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
131-11-3	Dimethyl phthalate	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	**Fluoranthene**	**688**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	Fluorene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**217**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
78-59-1	Isophorone	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**280**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**485**		ug/kg dry	51.4	103	2	EPA 8270D	02/10/2020 07:21	02/10/2020 21:59	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*55.7 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*63.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*70.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*69.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*106 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*77.4 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	**4,4'-DDE**	**46.1**		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	**4,4'-DDT**	**33.2**		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	**alpha-Chlordane**	**8.62**		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	NELAC-NY10854,NJDEP			
319-85-7	beta-BHC	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
57-74-9	**Chlordane, total**	**42.0**		ug/kg dry	40.2	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	**gamma-Chlordane**	**6.40**		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.01	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/kg dry	10.0	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/kg dry	102	5	EPA 8081B	02/07/2020 07:48	02/11/2020 12:52	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*41.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0203	1	EPA 8082A	02/07/2020 07:48	02/07/2020 23:51	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0203	1	EPA 8082A	02/07/2020 07:48	02/07/2020 23:51	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0203	1	EPA 8082A	02/07/2020 07:48	02/07/2020 23:51	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0203	1	EPA 8082A	02/07/2020 07:48	02/07/2020 23:51	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0203	1	EPA 8082A	02/07/2020 07:48	02/07/2020 23:51	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0203	1	EPA 8082A	02/07/2020 07:48	02/07/2020 23:51	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	**Aroclor 1260**	**0.0448**		mg/kg dry	0.0203	1	EPA 8082A	02/07/2020 07:48	02/07/2020 23:51	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	*** Total PCBs**	**0.0448**		mg/kg dry	0.0203	1	EPA 8082A	02/07/2020 07:48	02/07/2020 23:51	SR
						Certifications:				

Surrogate Recoveries	Result	Acceptance Range
877-09-8 *Surrogate: Tetrachloro-m-xylene*	*71.5 %*	*30-140*
2051-24-3 *Surrogate: Decachlorobiphenyl*	*62.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6510**		mg/kg dry	6.17	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	3.09	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**6.67**		mg/kg dry	1.85	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**202**		mg/kg dry	3.09	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.062	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**1.10**		mg/kg dry	0.370	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**46400**		mg/kg dry	6.17	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**17.1**		mg/kg dry	0.617	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**6.33**		mg/kg dry	0.494	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**34.6**		mg/kg dry	2.47	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**15000**		mg/kg dry	30.9	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**292**		mg/kg dry	0.617	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**4560**		mg/kg dry	6.17	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**185**		mg/kg dry	0.617	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**17.0**		mg/kg dry	1.23	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1670**		mg/kg dry	6.17	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.09	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.617	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (0-2) **York Sample ID:** 20B0093-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 9:40 am	02/04/2020

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**228**		mg/kg dry	61.7	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.09	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**23.6**		mg/kg dry	1.23	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**301**		mg/kg dry	3.09	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:14	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.79**		mg/kg dry	0.0370	1	EPA 7473	02/04/2020 16:44	02/04/2020 21:29	MAO
						Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.617	1	EPA 9014/9010C	02/14/2020 08:29	02/14/2020 14:33	JAG
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.0**		%	0.100	1	SM 2540G	02/05/2020 10:29	02/05/2020 13:25	JAG
						Certifications:	CTDOH			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/kg dry	66	130	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	**2-Butanone**	**13**		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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**	**62**		ug/kg dry	6.6	13	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/kg dry	6.6	13	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	**Carbon disulfide**	**3.8**	J	ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/kg dry	6.6	13	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.6	13	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.3	33	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH			
79-01-6	Trichloroethylene	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.3	6.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.9	20	1	EPA 8260C	02/06/2020 07:30	02/06/2020 14:40	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.3 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.2 %*	*76-130*

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**780**		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	**2,4-Dimethylphenol**	**525**		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	**2-Methylnaphthalene**	**4410**		ug/kg dry	267	533	10	EPA 8270D	02/10/2020 07:21	02/11/2020 10:38	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	**2-Methylphenol**	**308**		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	**3- & 4-Methylphenols**	**665**		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
106-47-8	4-Chloroaniline	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-01-6	4-Nitroaniline	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-02-7	4-Nitrophenol	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
83-32-9	**Acenaphthene**	**5030**		ug/kg dry	267	533	10	EPA 8270D	02/10/2020 07:21	02/11/2020 10:38	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	**Acenaphthylene**	**182**		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-86-2	Acetophenone	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
62-53-3	Aniline	ND		ug/kg dry	213	427	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-12-7	**Anthracene**	**13200**		ug/kg dry	267	533	10	EPA 8270D	02/10/2020 07:21	02/11/2020 10:38	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1912-24-9	Atrazine	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
92-87-5	Benzidine	ND		ug/kg dry	213	427	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,PADEP			
56-55-3	**Benzo(a)anthracene**	**45500**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-32-8	**Benzo(a)pyrene**	**50000**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
205-99-2	**Benzo(b)fluoranthene**	**47900**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
191-24-2	**Benzo(g,h,i)perylene**	**27400**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
207-08-9	**Benzo(k)fluoranthene**	**38300**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65-85-0	Benzoic acid	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-51-6	Benzyl alcohol	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
85-68-7	Benzyl butyl phthalate	ND	CCV-L	ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-81-7	Bis(2-ethylhexyl)phthalate	ND	CCV-L	ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-60-2	Caprolactam	ND		ug/kg dry	107	213	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
86-74-8	**Carbazole**	**7910**		ug/kg dry	267	533	10	EPA 8270D	02/10/2020 07:21	02/11/2020 10:38	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
218-01-9	**Chrysene**	**44700**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	**Dibenzo(a,h)anthracene**	**12800**	CCV-H	ug/kg dry	267	533	10	EPA 8270D	02/10/2020 07:21	02/11/2020 10:38	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
132-64-9	**Dibenzofuran**	**3090**		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-66-2	Diethyl phthalate	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
131-11-3	Dimethyl phthalate	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	**Fluoranthene**	**112000**		ug/kg dry	2670	5330	100	EPA 8270D	02/10/2020 07:21	02/11/2020 11:41	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	**Fluorene**	**5240**		ug/kg dry	267	533	10	EPA 8270D	02/10/2020 07:21	02/11/2020 10:38	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**29200**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
78-59-1	Isophorone	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**7140**		ug/kg dry	267	533	10	EPA 8270D	02/10/2020 07:21	02/11/2020 10:38	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**60900**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	**Phenol**	**285**		ug/kg dry	53.4	107	2	EPA 8270D	02/10/2020 07:21	02/10/2020 22:32	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**58800**		ug/kg dry	1340	2660	50	EPA 8270D	02/10/2020 07:21	02/11/2020 10:06	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*54.2 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*58.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*68.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*94.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*69.4 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**6.89**		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	**4,4'-DDE**	**12.3**		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	**4,4'-DDT**	**24.9**		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	NELAC-NY10854,NJDEP			
319-85-7	beta-BHC	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
57-74-9	Chlordane, total	ND		ug/kg dry	42.7	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.14	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/kg dry	10.7	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/kg dry	108	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:09	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*36.4 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0216	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:40	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0216	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:40	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0216	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:40	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0216	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:40	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0216	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:40	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0216	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:40	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0216	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:40	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0216	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:40	SR
						Certifications:				

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6340**		mg/kg dry	6.50	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	**Antimony**	**11.5**		mg/kg dry	3.25	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**74.4**		mg/kg dry	1.95	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**2810**		mg/kg dry	3.25	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.065	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**6.39**		mg/kg dry	0.390	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**64000**		mg/kg dry	6.50	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**43.1**		mg/kg dry	0.650	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**19.3**		mg/kg dry	0.520	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**347**		mg/kg dry	2.60	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**94400**		mg/kg dry	32.5	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**11100**		mg/kg dry	0.650	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**23700**		mg/kg dry	6.50	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**635**		mg/kg dry	0.650	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**139**		mg/kg dry	1.30	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1090**		mg/kg dry	6.50	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.25	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.650	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-1 (11-13) **York Sample ID:** 20B0093-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 10:10 am	02/04/2020

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**551**		mg/kg dry	65.0	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	**Thallium**	**11.1**		mg/kg dry	3.25	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**62.9**		mg/kg dry	1.30	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:17	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**7250**		mg/kg dry	16.2	5	EPA 6010D	02/05/2020 09:13	02/11/2020 12:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.34**		mg/kg dry	0.0390	1	EPA 7473	02/04/2020 16:44	02/04/2020 21:42	MAO
						Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.669**		mg/kg dry	0.650	1	EPA 9014/9010C	02/17/2020 08:20	02/17/2020 16:52	ZTS
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* **% Solids**	**77.0**		%	0.100	1	SM 2540G	02/05/2020 10:29	02/05/2020 13:25	JAG
						Certifications:	CTDOH			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/kg dry	47	95	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	4.7	9.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/kg dry	4.7	9.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/kg dry	4.7	9.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.7	9.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	24	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH			
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.7	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.1	14	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:05	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.1 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.0 %*	*76-130*

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
106-47-8	4-Chloroaniline	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-01-6	4-Nitroaniline	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-02-7	4-Nitrophenol	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
83-32-9	**Acenaphthene**	**229**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	**Acenaphthylene**	**381**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-86-2	Acetophenone	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
62-53-3	Aniline	ND		ug/kg dry	285	570	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-12-7	**Anthracene**	**917**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1912-24-9	Atrazine	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
92-87-5	Benzidine	ND		ug/kg dry	285	570	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,PADEP			
56-55-3	**Benzo(a)anthracene**	**2570**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-32-8	**Benzo(a)pyrene**	**2650**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
205-99-2	**Benzo(b)fluoranthene**	**2620**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
191-24-2	**Benzo(g,h,i)perylene**	**1850**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
207-08-9	**Benzo(k)fluoranthene**	**2340**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65-85-0	Benzoic acid	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-51-6	Benzyl alcohol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
85-68-7	Benzyl butyl phthalate	ND	CCV-L	ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-81-7	**Bis(2-ethylhexyl)phthalate**	**194**	CCV-L	ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-60-2	Caprolactam	ND		ug/kg dry	142	284	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
86-74-8	**Carbazole**	**397**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
218-01-9	**Chrysene**	**2630**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	**Dibenzo(a,h)anthracene**	**812**	CCV-H	ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
132-64-9	**Dibenzofuran**	**180**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-66-2	Diethyl phthalate	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
131-11-3	Dimethyl phthalate	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	**Fluoranthene**	**7090**		ug/kg dry	178	356	5	EPA 8270D	02/10/2020 07:21	02/11/2020 11:09	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	**Fluorene**	**206**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1680**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
78-59-1	Isophorone	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	**Naphthalene**	**86.4**	J	ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**4460**		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		ug/kg dry	71.3	142	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:03	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**4480**		ug/kg dry	178	356	5	EPA 8270D	02/10/2020 07:21	02/11/2020 11:09	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.9 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*64.3 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*65.1 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.0 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*116 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*88.6 %*		*24-116*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	NELAC-NY10854,NJDEP			
319-85-7	beta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
57-74-9	Chlordane, total	ND		ug/kg dry	37.0	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/kg dry	9.24	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/kg dry	93.6	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:26	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:54	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:54	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:54	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:54	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:54	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:54	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:54	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 21:54	SR
						Certifications:				

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9690**		mg/kg dry	5.71	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	2.86	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**6.01**		mg/kg dry	1.71	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**241**		mg/kg dry	2.86	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**1.16**		mg/kg dry	0.343	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**29400**		mg/kg dry	5.71	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**22.1**		mg/kg dry	0.571	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**9.64**		mg/kg dry	0.457	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**60.7**		mg/kg dry	2.29	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**16800**		mg/kg dry	28.6	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**1220**		mg/kg dry	0.571	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**17400**		mg/kg dry	5.71	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**382**		mg/kg dry	0.571	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**31.9**		mg/kg dry	1.14	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2540**		mg/kg dry	5.71	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.86	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.571	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (0-2) **York Sample ID:** 20B0093-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 12:45 pm	02/04/2020

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**236**		mg/kg dry	57.1	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.86	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**53.8**		mg/kg dry	1.14	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**853**		mg/kg dry	2.86	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:19	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.700**		mg/kg dry	0.0343	1	EPA 7473	02/04/2020 16:44	02/04/2020 21:54	MAO
						Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.571	1	EPA 9014/9010C	02/17/2020 08:20	02/17/2020 16:52	ZTS
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* **% Solids**	**87.5**		%	0.100	1	SM 2540G	02/05/2020 10:29	02/05/2020 13:25	JAG
						Certifications:	CTDOH			

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 20B0093-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Water	February 4, 2020 12:00 am	02/04/2020

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** **York Sample ID:** **20B0093-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Water	February 4, 2020 12:00 am	02/04/2020

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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **20B0093-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Water	February 4, 2020 12:00 am	02/04/2020

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	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 20B0093-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Water	February 4, 2020 12:00 am	02/04/2020

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	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	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	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	02/05/2020 19:08	02/07/2020 03:20	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*	*95.5 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/kg dry	60	120	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	**2-Butanone**	**17**		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	**Acetone**	**82**		ug/kg dry	6.0	12	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	6.0	12	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/kg dry	6.0	12	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.0	12	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.0	30	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH			
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.0	18	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*	*76-130*

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
106-47-8	4-Chloroaniline	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-01-6	4-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-02-7	4-Nitrophenol	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
83-32-9	Acenaphthene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	**Acenaphthylene**	**326**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-86-2	Acetophenone	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
62-53-3	Aniline	ND		ug/kg dry	203	407	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-12-7	**Anthracene**	**154**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1912-24-9	Atrazine	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
92-87-5	Benzidine	ND		ug/kg dry	203	407	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,PADEP			
56-55-3	**Benzo(a)anthracene**	**266**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-32-8	**Benzo(a)pyrene**	**874**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
205-99-2	**Benzo(b)fluoranthene**	**775**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
191-24-2	**Benzo(g,h,i)perylene**	**597**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
207-08-9	**Benzo(k)fluoranthene**	**479**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65-85-0	Benzoic acid	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-51-6	Benzyl alcohol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
85-68-7	Benzyl butyl phthalate	ND	CCV-L	ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-81-7	Bis(2-ethylhexyl)phthalate	ND	CCV-L	ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-60-2	Caprolactam	ND		ug/kg dry	102	203	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
86-74-8	**Carbazole**	**93.4**	J	ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
218-01-9	**Chrysene**	**377**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	**Dibenzo(a,h)anthracene**	**275**	CCV-H	ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
132-64-9	Dibenzofuran	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-66-2	Diethyl phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
131-11-3	Dimethyl phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	**Fluoranthene**	**400**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	Fluorene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**613**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
78-59-1	Isophorone	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**158**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**303**		ug/kg dry	50.9	102	2	EPA 8270D	02/10/2020 07:21	02/10/2020 23:35	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*56.8 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*57.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*70.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*103 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*63.9 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	NELAC-NY10854,NJDEP			
319-85-7	beta-BHC	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
57-74-9	Chlordane, total	ND		ug/kg dry	40.5	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.02	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/kg dry	10.1	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/kg dry	102	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:43	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0204	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:08	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0204	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:08	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0204	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:08	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0204	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:08	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0204	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:08	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0204	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:08	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0204	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:08	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0204	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:08	SR
						Certifications:				

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**2990**		mg/kg dry	6.23	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	3.12	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**2.49**		mg/kg dry	1.87	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**245**		mg/kg dry	3.12	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.062	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.403**		mg/kg dry	0.374	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**2430**		mg/kg dry	6.23	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**9.65**		mg/kg dry	0.623	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**4.50**		mg/kg dry	0.499	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**81.1**		mg/kg dry	2.49	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**9350**		mg/kg dry	31.2	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**242**		mg/kg dry	0.623	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**442**		mg/kg dry	6.23	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**51.6**		mg/kg dry	0.623	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**16.3**		mg/kg dry	1.25	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**301**		mg/kg dry	6.23	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	3.12	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.623	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-3 (13-15) **York Sample ID:** 20B0093-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 1:25 pm	02/04/2020

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**244**		mg/kg dry	62.3	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.12	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**12.7**		mg/kg dry	1.25	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**354**		mg/kg dry	3.12	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:22	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0664**		mg/kg dry	0.0374	1	EPA 7473	02/04/2020 16:44	02/04/2020 22:06	MAO
						Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.623	1	EPA 9014/9010C	02/17/2020 08:20	02/17/2020 16:52	ZTS
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* **% Solids**	**80.2**		%	0.100	1	SM 2540G	02/05/2020 10:29	02/05/2020 13:25	JAG
						Certifications:	CTDOH			

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/kg dry	46	93	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	4.6	9.3	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/kg dry	4.6	9.3	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/kg dry	4.6	9.3	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.6	9.3	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.3	23	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH			
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.9	14	1	EPA 8260C	02/06/2020 07:30	02/06/2020 15:56	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.0 %*	*76-130*

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	91.1	182	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	91.1	182	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	91.1	182	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		ug/kg dry	91.1	182	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	91.1	182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	91.1	182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	91.1	182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	91.1	182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
83-32-9	Acenaphthene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
208-96-8	**Acenaphthylene**	**346**		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
98-86-2	Acetophenone	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
62-53-3	Aniline	ND		ug/kg dry	182	365	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
120-12-7	**Anthracene**	**206**		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
1912-24-9	Atrazine	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
92-87-5	Benzidine	ND		ug/kg dry	182	365	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
56-55-3	**Benzo(a)anthracene**	**631**		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
50-32-8	**Benzo(a)pyrene**	**799**		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
205-99-2	**Benzo(b)fluoranthene**	**765**		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
191-24-2	**Benzo(g,h,i)perylene**	**698**		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
207-08-9	**Benzo(k)fluoranthene**	**650**		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
65-85-0	Benzoic acid	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW
85-68-7	Benzyl butyl phthalate	ND	CCV-L	ug/kg dry	45.7	91.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	02/10/2020 07:21	02/11/2020 00:07	OW

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-81-7	Bis(2-ethylhexyl)phthalate	ND	CCV-L	ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-60-2	Caprolactam	ND		ug/kg dry	91.1	182	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
86-74-8	**Carbazole**	**135**		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
218-01-9	**Chrysene**	**768**		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	**Dibenzo(a,h)anthracene**	**281**	CCV-H	ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
132-64-9	Dibenzofuran	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
131-11-3	Dimethyl phthalate	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	**Fluoranthene**	**1610**		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	**Fluorene**	**56.8**	J	ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**617**		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
78-59-1	Isophorone	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**840**		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**1120**		ug/kg dry	45.7	91.1	2	EPA 8270D	02/10/2020 07:21	02/11/2020 00:07	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*54.2 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*65.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*70.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*72.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*110 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*78.1 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	NELAC-NY10854,NJDEP			
319-85-7	beta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
57-74-9	Chlordane, total	ND		ug/kg dry	37.0	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/kg dry	9.25	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/kg dry	93.6	5	EPA 8081B	02/10/2020 07:17	02/11/2020 13:59	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:21	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:21	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:21	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:21	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:21	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:21	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:21	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:21	SR
						Certifications:				

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*71.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14600**		mg/kg dry	5.62	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	2.81	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**4.67**		mg/kg dry	1.69	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**422**		mg/kg dry	2.81	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.704**		mg/kg dry	0.337	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**32300**		mg/kg dry	5.62	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**29.0**		mg/kg dry	0.562	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**19.0**		mg/kg dry	0.450	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**34.4**		mg/kg dry	2.25	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**20100**		mg/kg dry	28.1	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**711**		mg/kg dry	0.562	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**14200**		mg/kg dry	5.62	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**806**		mg/kg dry	0.562	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**23.9**		mg/kg dry	1.12	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2500**		mg/kg dry	5.62	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	2.81	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.562	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (0-2) **York Sample ID:** 20B0093-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 2:50 pm	02/04/2020

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**192**		mg/kg dry	56.2	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	2.81	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**40.4**		mg/kg dry	1.12	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**280**		mg/kg dry	2.81	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:31	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.498**		mg/kg dry	0.0337	1	EPA 7473	02/04/2020 16:44	02/04/2020 20:40	MAO
						Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.562	1	EPA 9014/9010C	02/18/2020 08:27	02/18/2020 15:28	ZTS
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.9**		%	0.100	1	SM 2540G	02/05/2020 10:29	02/05/2020 13:25	JAG
						Certifications:	CTDOH			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/kg dry	65	130	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	**2-Butanone**	**17**		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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**	**92**		ug/kg dry	6.5	13	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/kg dry	6.5	13	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

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/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/kg dry	6.5	13	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.5	13	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.3	33	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH			
79-01-6	Trichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.8	20	1	EPA 8260C	02/06/2020 07:30	02/06/2020 16:21	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.5 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.9 %*	*76-130*

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,PADEP			
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,PADEP			
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-57-8	2-Chlorophenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
95-48-7	2-Methylphenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-74-4	2-Nitroaniline	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
88-75-5	2-Nitrophenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
106-47-8	4-Chloroaniline	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-01-6	4-Nitroaniline	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
100-02-7	4-Nitrophenol	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
83-32-9	Acenaphthene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
208-96-8	Acenaphthylene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-86-2	Acetophenone	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
62-53-3	Aniline	ND		ug/kg dry	219	437	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
120-12-7	Anthracene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1912-24-9	Atrazine	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-52-7	**Benzaldehyde**	**77.7**	J, CCV-L	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
92-87-5	Benzidine	ND		ug/kg dry	219	437	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,PADEP			
56-55-3	**Benzo(a)anthracene**	**99.5**	J	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-32-8	**Benzo(a)pyrene**	**104**	J	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
205-99-2	**Benzo(b)fluoranthene**	**101**	J	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
191-24-2	**Benzo(g,h,i)perylene**	**98.7**	J	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
207-08-9	**Benzo(k)fluoranthene**	**90.8**	J	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
65-85-0	Benzoic acid	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
100-51-6	Benzyl alcohol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
85-68-7	Benzyl butyl phthalate	ND	CCV-L	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-81-7	Bis(2-ethylhexyl)phthalate	ND	CCV-L	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
105-60-2	Caprolactam	ND		ug/kg dry	109	218	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
86-74-8	Carbazole	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
218-01-9	**Chrysene**	**115**		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
132-64-9	Dibenzofuran	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-66-2	Diethyl phthalate	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
131-11-3	Dimethyl phthalate	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
206-44-0	**Fluoranthene**	**191**		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-73-7	Fluorene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	NELAC-NY10854,NJDEP,PADEP			
118-74-1	Hexachlorobenzene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
77-47-4	Hexachlorocyclopentadiene	ND	CCV-L	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
193-39-5	**Indeno(1,2,3-cd)pyrene**	**88.2**	J	ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
78-59-1	Isophorone	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
91-20-3	Naphthalene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
85-01-8	**Phenanthrene**	**114**		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-95-2	Phenol	ND		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
129-00-0	**Pyrene**	**134**		ug/kg dry	54.7	109	2	EPA 8270D	02/10/2020 07:21	02/11/2020 01:43	OW
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*46.3 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*52.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*57.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*101 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*71.8 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-55-9	4,4'-DDE	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
50-29-3	4,4'-DDT	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
309-00-2	Aldrin	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-84-6	alpha-BHC	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	NELAC-NY10854,NJDEP			
319-85-7	beta-BHC	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
57-74-9	Chlordane, total	ND		ug/kg dry	44.1	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
319-86-8	delta-BHC	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
60-57-1	Dieldrin	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
33213-65-9	Endosulfan II	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
53494-70-5	Endrin ketone	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.20	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/kg dry	11.0	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/kg dry	112	5	EPA 8081B	02/10/2020 07:17	02/11/2020 14:16	CM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.4 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0223	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:35	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0223	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:35	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0223	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:35	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0223	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:35	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0223	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:35	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0223	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:35	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0223	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:35	SR
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0223	1	EPA 8082A	02/10/2020 07:17	02/10/2020 22:35	SR
						Certifications:				

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5450**		mg/kg dry	6.70	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-36-0	Antimony	ND		mg/kg dry	3.35	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**3.95**		mg/kg dry	2.01	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	**Barium**	**213**		mg/kg dry	3.35	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/kg dry	0.067	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.713**		mg/kg dry	0.402	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-70-2	**Calcium**	**59700**		mg/kg dry	6.70	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**21.4**		mg/kg dry	0.670	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-48-4	**Cobalt**	**4.13**		mg/kg dry	0.536	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**116**		mg/kg dry	2.68	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**13100**		mg/kg dry	33.5	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**215**		mg/kg dry	0.670	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**26100**		mg/kg dry	6.70	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**260**		mg/kg dry	0.670	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**18.1**		mg/kg dry	1.34	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**785**		mg/kg dry	6.70	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**10.4**		mg/kg dry	3.35	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.670	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: SB-4 (13-15) **York Sample ID:** 20B0093-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20B0093	3475.00014000 Lafayette	Soil	February 4, 2020 3:00 pm	02/04/2020

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**367**		mg/kg dry	67.0	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/kg dry	3.35	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**15.1**		mg/kg dry	1.34	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**409**		mg/kg dry	3.35	1	EPA 6010D	02/05/2020 09:13	02/05/2020 17:41	JAM
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.736**		mg/kg dry	0.0402	1	EPA 7473	02/04/2020 16:44	02/04/2020 22:14	MAO
						Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.670	1	EPA 9014/9010C	02/17/2020 08:20	02/17/2020 16:52	ZTS
						Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* **% Solids**	**74.6**		%	0.100	1	SM 2540G	02/05/2020 10:29	02/05/2020 13:25	JAG
						Certifications:	CTDOH			

CASE NARRATIVE

York Project/SDG No.: 20B0093
Client: Roux Associates
Client Project ID: 3475.00014000 Lafayette
Prepared for: Kathryn Sommo

Introduction

This Case Narrative applies only to the samples submitted to our laboratory on **02/04/2020 19:35** as detailed on the chain-of-custody form.

The 7 sample(s) were received intact in a custody-sealed cooler(s), unless otherwise noted.
Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (≤ 6°C) and documented as:

Cooler	Temp C°
Default Cooler	**2.1**

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.

Client Sample Information and Non-Conformances

Laboratory ID	Sample Name	Matrix
20B0093-01	SB-1 (0-2)	Soil
20B0093-02	SB-1 (11-13)	Soil
20B0093-03	SB-3 (0-2)	Soil
20B0093-04	Trip Blank	Water
20B0093-05	SB-3 (13-15)	Soil
20B0093-06	SB-4 (0-2)	Soil
20B0093-07	SB-4 (13-15)	Soil

Laboratory ID	Sample Name	Analysis	Analyte	Qualifier	Description
20B0093-03	SB-3 (0-2)	Semi-Volatiles, 8270 - Comprehensive		SURR: 2,4,6-Tribromophenol	
	S-08	The recovery of this surrogate was outside of QC limits.			

Any additional Client Sample Non-conformances are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

QC Sample Non-Conformances

Any QC sample Non-conformances (SCV, CCV, BS, BSD, SRM, PS, MS, MSD, DUP) are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

York Project/SDG no.: 20B0093 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 data deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: *Ben Gulizia*
Laboratory Director

Date: 2/25/2020

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

1. **Volatile Organics (Water-ug/L or Soil-ug/Kg)**

Soils/Waters

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

Medium Level Soils

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

2. Semi-Volatiles (Water-ug/L or Soil-ug/Kg)

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

3. Pesticides/PCB, DRO, EPH, CTETPH (Water-ug/L or Soil-ug/Kg)

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

4. Inorganics (Water or Soil-ug/mL)

$$Cx = \frac{(Conc.)(VE)}{(V)(\%\ solids/100)}$$

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 or digestate
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:	Roux Associates
Project:	3475.00014000 Lafayette	Lab Project No:	20B0093
Laboratory Sample ID(s):	20B0093-01 - 20B0093-07	Sampling Date(s):	02/04/2020 - 02/04/2020
Review Date(s):	02/25/2020 - 02/25/2020	Laboratory Reviewer(s):	DEB

QC Sample Nonconformances

Batch ID: BB00136 **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
BB00136-BS1	1,2,3-Trichlorobenzene - 87-61-6	6.9 ug/L	LCS	68.8	76-136	Low Bias				
BB00136-BS1	Acrolein - 107-02-8	5.7 ug/L	LCS	5.73	10-153	Low Bias				
BB00136-BS1	Cyclohexane - 110-82-7	4.0 ug/L	LCS	40.1	63-149	Low Bias				
BB00136-BS1	tert-Butylbenzene - 98-06-6	7.7 ug/L	LCS	76.7	77-138	Low Bias				
BB00136-BS1	Tetrachloroethylene - 127-18-4	8.2 ug/L	LCS	81.5	82-131	Low Bias				
BB00136-BSD1	1,2,3-Trichlorobenzene - 87-61-6	6.4 ug/L	LCS Dup	64.0	76-136	Low Bias	7.23	30		
BB00136-BSD1	1,2,4-Trichlorobenzene - 120-82-1	7.1 ug/L	LCS Dup	70.8	76-137	Low Bias	9.16	30		
BB00136-BSD1	1,3-Dichlorobenzene - 541-73-1	8.4 ug/L	LCS Dup	83.9	86-122	Low Bias	7.13	30		
BB00136-BSD1	1,4-Dichlorobenzene - 106-46-7	8.3 ug/L	LCS Dup	83.4	85-124	Low Bias	7.61	30		
BB00136-BSD1	Acrolein - 107-02-8	6.8 ug/L	LCS Dup	6.83	10-153	Low Bias	17.5	30		
BB00136-BSD1	Cyclohexane - 110-82-7	3.7 ug/L	LCS Dup	36.7	63-149	Low Bias	8.85	30		
BB00136-BSD1	tert-Butylbenzene - 98-06-6	7.2 ug/L	LCS Dup	72.2	77-138	Low Bias	6.04	30		
BB00136-BSD1	Tetrachloroethylene - 127-18-4	7.8 ug/L	LCS Dup	77.8	82-131	Low Bias	4.65	30		

Batch ID: BB00232 **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
BB00232-MS1	Cyclohexane - 110-82-7	34 ug/L	Matrix Spike (SB-4 (0-2))	67.7	70-130	Low Bias				
BB00232-MS1	Methylcyclohexane - 108-87-2	24 ug/L	Matrix Spike (SB-4 (0-2))	47.2	70-130	Low Bias				
BB00232-MSD1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) - 76-13-1	56 ug/L	Matrix Spike Dup (SB-4 (0-2))	112	11-160		33.8	31	Non-dir.	
BB00232-MSD1	Bromomethane - 74-83-9	51 ug/L	Matrix Spike Dup (SB-4 (0-2))	102	10-166		69.5	42	Non-dir.	
BB00232-MSD1	Carbon tetrachloride - 56-23-5	51 ug/L	Matrix Spike Dup (SB-4 (0-2))	102	35-145		32.6	31	Non-dir.	
BB00232-MSD1	Cyclohexane - 110-82-7	50 ug/L	Matrix Spike Dup (SB-4 (0-2))	99.2	70-130		37.7	30	Non-dir.	
BB00232-MSD1	Hexachlorobutadiene - 87-68-3	11 ug/L	Matrix Spike Dup (SB-4 (0-2))	22.3	10-158		54.3	45	Non-dir.	
BB00232-MSD1	Methylcyclohexane - 108-87-2	36 ug/L	Matrix Spike Dup (SB-4 (0-2))	71.1	70-130		40.5	30	Non-dir.	
BB00232-MSD1	Tetrachloroethylene - 127-18-4	34 ug/L	Matrix Spike Dup (SB-4 (0-2))	67.9	30-167		35.3	33	Non-dir.	
BB00232-MSD1	Trichlorofluoromethane - 75-69-4	55 ug/L	Matrix Spike Dup (SB-4 (0-2))	110	35-142		33.5	30	Non-dir.	

Batch ID: Y0B0615 **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
Y0B0615-CCV1	Carbon tetrachloride - 56-23-5	60.5 ug/L	Calibration Check	121	80-120	High Bias				
Y0B0615-CCV1	Trichlorofluoromethane - 75-69-4	62.1 ug/L	Calibration Check	124	80-120	High Bias				

Batch ID: Y0B0703 **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
Y0B0703-CCV1	1,2,3-Trichlorobenzene - 87-61-6	6.91 ug/L	Calibration Check	69.1	80-120	Low Bias				
Y0B0703-CCV1	1,2,4-Trichlorobenzene - 120-82-1	7.59 ug/L	Calibration Check	75.9	80-120	Low Bias				
Y0B0703-CCV1	1,4-Dioxane - 123-91-1	138 ug/L	Calibration Check	69.2	80-120	Low Bias				
Y0B0703-CCV1	Acrylonitrile - 107-13-1	13.8 ug/L	Calibration Check	138	80-120	High Bias				
Y0B0703-CCV1	Bromomethane - 74-83-9	16.3 ug/L	Calibration Check	163	80-120	High Bias				
Y0B0703-CCV1	Carbon tetrachloride - 56-23-5	12.0 ug/L	Calibration Check	120	80-120	High Bias				
Y0B0703-CCV1	Chloroethane - 75-00-3	12.1 ug/L	Calibration Check	121	80-120	High Bias				
Y0B0703-CCV1	Dichlorodifluoromethane - 75-71-8	12.1 ug/L	Calibration Check	121	80-120	High Bias				
Y0B0703-CCV1	Hexachlorobutadiene - 87-68-3	7.96 ug/L	Calibration Check	79.6	80-120	Low Bias				
Y0B0703-CCV1	Trichlorofluoromethane - 75-69-4	12.4 ug/L	Calibration Check	124	80-120	High Bias				
Y0B0703-CCV1	Vinyl Chloride - 75-01-4	12.3 ug/L	Calibration Check	123	80-120	High Bias				

Batch ID: Y0B1216 **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
Y0B1216-SCV1	1,4-Dioxane - 123-91-1	145 ug/L	Secondary Cal Check	69.0	70-130	Low Bias				
Y0B1216-SCV1	Acrolein - 107-02-8	13.2 ug/L	Secondary Cal Check	132	70-130	High Bias				
Y0B1216-SCV1	Bromomethane - 74-83-9	17.8 ug/L	Secondary Cal Check	178	70-130	High Bias				
Y0B1216-SCV1	Cyclohexane - 110-82-7	3.90 ug/L	Secondary Cal Check	39.0	70-130	Low Bias				

Batch ID: BB00363 **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
BB00363-MS1	2,4-Dinitrophenol - 51-28-5	<187 ug/kg dry	Matrix Spike (SB-4 (0-2))	NR	10-132	Low Bias				
BB00363-MS1	4,6-Dinitro-2-methylphenol - 534-52-1	<187 ug/kg dry	Matrix Spike (SB-4 (0-2))	NR	10-149	Low Bias				
BB00363-MS1	Hexachlorocyclopentadiene - 77-47-4	<93.5 ug/kg dr	Matrix Spike (SB-4 (0-2))	NR	10-115	Low Bias				
BB00363-MSD1	Atrazine - 1912-24-9	708 ug/kg dry	Matrix Spike Dup (SB-4 (0-2))	75.8	10-139		30.8	30	Non-dir.	
BB00363-MSD1	Benzoic acid - 65-85-0	88.9 ug/kg dry	Matrix Spike Dup (SB-4 (0-2))	9.52	10-130	Low Bias	35.3	30	Non-dir.	

Batch ID: Y0B1101 **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
Y0B1101-CCV1	2,4-Dinitrophenol - 51-28-5	50.6 ug/mL	Calibration Check	169	80-120	High Bias				
Y0B1101-CCV1	4,6-Dinitro-2-methylphenol - 534-52-1	45.8 ug/mL	Calibration Check	153	80-120	High Bias				
Y0B1101-CCV1	Benzaldehyde - 100-52-7	23.5 ug/mL	Calibration Check	78.4	80-120	Low Bias				
Y0B1101-CCV1	Benzyl butyl phthalate - 85-68-7	22.9 ug/mL	Calibration Check	76.4	80-120	Low Bias				
Y0B1101-CCV1	Bis(2-ethylhexyl)phthalate - 117-81-7	23.7 ug/mL	Calibration Check	79.1	80-120	Low Bias				
Y0B1101-CCV1	Dibenzo(a,h)anthracene - 53-70-3	39.0 ug/mL	Calibration Check	130	80-120	High Bias				
Y0B1101-CCV1	Hexachlorocyclopentadiene - 77-47-4	21.0 ug/mL	Calibration Check	70.1	80-120	Low Bias				

Batch ID: Y0B1127 **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
Y0B1127-CCV1	2,4-Dinitrophenol - 51-28-5	44.8 ug/mL	Calibration Check	149	80-120	High Bias				
Y0B1127-CCV1	4,6-Dinitro-2-methylphenol - 534-52-1	43.9 ug/mL	Calibration Check	146	80-120	High Bias				
Y0B1127-CCV1	Benzaldehyde - 100-52-7	22.4 ug/mL	Calibration Check	74.8	80-120	Low Bias				
Y0B1127-CCV1	Benzyl butyl phthalate - 85-68-7	23.3 ug/mL	Calibration Check	77.7	80-120	Low Bias				
Y0B1127-CCV1	Dibenzo(a,h)anthracene - 53-70-3	40.9 ug/mL	Calibration Check	136	80-120	High Bias				
Y0B1127-CCV1	Hexachlorocyclopentadiene - 77-47-4	15.9 ug/mL	Calibration Check	53.0	80-120	Low Bias				

Batch ID: Y9L0308 **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
Y9L0308-SCV1	2,4-Dinitrophenol - 51-28-5	41.2 ug/mL	Secondary Cal Check	137	70-130	High Bias				
Y9L0308-SCV1	4,6-Dinitro-2-methylphenol - 534-52-1	40.1 ug/mL	Secondary Cal Check	134	70-130	High Bias				

Batch ID: Y0B1124 **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
Y0B1124-CCV3	Toxaphene - 8001-35-2	2.12 ng/mL	Calibration Check	0.106	80-120	Low Bias				
Y0B1124-CCV4	Surrogate: Tetrachloro-m-xylene	199 ng/mL	Surrogate	124	80-120	High Bias				

Batch ID: Y0B0739 **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
Y0B0739-CCV4	Surrogate: Decachlorobiphenyl	0.219 ug/mL	Surrogate	137	80-120	High Bias				
Y0B0739-CCV5	Surrogate: Decachlorobiphenyl	0.220 ug/mL	Surrogate	138	80-120	High Bias				

Batch ID: Y0B1025 **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
Y0B1025-CCV3	Surrogate: Decachlorobiphenyl	0.209 ug/mL	Surrogate	131	80-120	High Bias				
Y0B1025-CCV4	Surrogate: Decachlorobiphenyl	0.205 ug/mL	Surrogate	128	80-120	High Bias				

Batch ID: BB00168 **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
BB00168-DUP1	Cobalt - 7440-48-4	11.4 mg/kg dry	Duplicate (SB-4 (0-2))		-		49.6	35	Non-dir.	
BB00168-DUP1	Copper - 7440-50-8	49.1 mg/kg dry	Duplicate (SB-4 (0-2))		-		35.0	35	Non-dir.	
BB00168-DUP1	Manganese - 7439-96-5	482 mg/kg dry	Duplicate (SB-4 (0-2))		-		50.4	35	Non-dir.	
BB00168-MS1	Aluminum - 7429-90-5	15900 mg/kg d	Matrix Spike (SB-4 (0-2))	544	75-125	High Bias				
BB00168-MS1	Antimony - 7440-36-0	5.28 mg/kg dry	Matrix Spike (SB-4 (0-2))	18.8	75-125	Low Bias				
BB00168-MS1	Barium - 7440-39-3	575 mg/kg dry	Matrix Spike (SB-4 (0-2))	67.9	75-125	Low Bias				
BB00168-MS1	Beryllium - 7440-41-7	0.642 mg/kg di	Matrix Spike (SB-4 (0-2))	11.4	75-125	Low Bias				
BB00168-MS1	Calcium - 7440-70-2	42900 mg/kg d	Matrix Spike (SB-4 (0-2))	NR	75-125	High Bias				
BB00168-MS1	Iron - 7439-89-6	21100 mg/kg d	Matrix Spike (SB-4 (0-2))	940	75-125	High Bias				
BB00168-MS1	Lead - 7439-92-1	555 mg/kg dry	Matrix Spike (SB-4 (0-2))	NR	75-125	Low Bias				
BB00168-MS1	Magnesium - 7439-95-4	14300 mg/kg d	Matrix Spike (SB-4 (0-2))	132	75-125	High Bias				
BB00168-MS1	Manganese - 7439-96-5	601 mg/kg dry	Matrix Spike (SB-4 (0-2))	NR	75-125	Low Bias				
BB00168-MS1	Potassium - 7440-09-7	2650 mg/kg dr	Matrix Spike (SB-4 (0-2))	133	75-125	High Bias				
BB00168-MS1	Silver - 7440-22-4	3.95 mg/kg dry	Matrix Spike (SB-4 (0-2))	70.2	75-125	Low Bias				
BB00168-MS1	Sodium - 7440-23-5	359 mg/kg dry	Matrix Spike (SB-4 (0-2))	149	75-125	High Bias				
BB00168-PS1	Aluminum - 7429-90-5	129 ug/mL	Post Spike (SB-4 (0-2))	NR	75-125	Low Bias				
BB00168-PS1	Beryllium - 7440-41-7	0.010 ug/mL	Post Spike (SB-4 (0-2))	20.1	75-125	Low Bias				
BB00168-PS1	Calcium - 7440-70-2	307 ug/mL	Post Spike (SB-4 (0-2))	NR	75-125	High Bias				
BB00168-PS1	Copper - 7440-50-8	0.710 ug/mL	Post Spike (SB-4 (0-2))	161	75-125	High Bias				
BB00168-PS1	Iron - 7439-89-6	183 ug/mL	Post Spike (SB-4 (0-2))	472	75-125	High Bias				
BB00168-PS1	Lead - 7439-92-1	8.91 ug/mL	Post Spike (SB-4 (0-2))	518	75-125	High Bias				
BB00168-PS1	Magnesium - 7439-95-4	124 ug/mL	Post Spike (SB-4 (0-2))	NR	75-125	Low Bias				
BB00168-PS1	Manganese - 7439-96-5	4.74 ug/mL	Post Spike (SB-4 (0-2))	NR	75-125	Low Bias				
BB00168-PS1	Silver - 7440-22-4	0.013 ug/mL	Post Spike (SB-4 (0-2))	25.2	75-125	Low Bias				
BB00168-PS1	Zinc - 7440-66-6	2.84 ug/mL	Post Spike (SB-4 (0-2))	68.8	75-125	Low Bias				

Batch ID: Y0B0539 **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
Y0B0539-SRD2	Calcium - 7440-70-2	35500 mg/kg d	Serial Dilution (SB-4 (0-2))		-		10.2	10	Non-dir.	
Y0B0539-SRD2	Chromium - 7440-47-3	35.6 mg/kg dry	Serial Dilution (SB-4 (0-2))		-		22.8	10	Non-dir.	
Y0B0539-SRD2	Cobalt - 7440-48-4	12.5 mg/kg dry	Serial Dilution (SB-4 (0-2))		-		34.0	10	Non-dir.	
Y0B0539-SRD2	Copper - 7440-50-8	48.9 mg/kg dry	Serial Dilution (SB-4 (0-2))		-		42.1	10	Non-dir.	
Y0B0539-SRD2	Lead - 7439-92-1	1030 mg/kg dr	Serial Dilution (SB-4 (0-2))		-		44.3	10	Non-dir.	
Y0B0539-SRD2	Manganese - 7439-96-5	510 mg/kg dry	Serial Dilution (SB-4 (0-2))		-		36.7	10	Non-dir.	
Y0B0539-SRD2	Nickel - 7440-02-0	28.3 mg/kg dry	Serial Dilution (SB-4 (0-2))		-		18.6	10	Non-dir.	
Y0B0539-SRD2	Vanadium - 7440-62-2	47.0 mg/kg dry	Serial Dilution (SB-4 (0-2))		-		16.4	10	Non-dir.	

Batch ID: Y0B1116 **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
Y0B1116-ICV1	Antimony - 7440-36-0	0.277 ug/mL	Initial Cal Check	111	90-110	High Bias				

Batch ID: BB00136 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
20B0093-04	Trip Blank
BB00136-BLK1	Blank
BB00136-BS1	LCS
BB00136-BSD1	LCS Dup

Batch ID: BB00168 **General Method:** Metals by ICP

YORK Sample ID	Client Sample ID
20B0093-01	SB-1 (0-2)
20B0093-02	SB-1 (11-13)
20B0093-02RE1	SB-1 (11-13)
20B0093-03	SB-3 (0-2)
20B0093-05	SB-3 (13-15)
20B0093-06	SB-4 (0-2)
20B0093-07	SB-4 (13-15)
BB00168-BLK1	Blank
BB00168-DUP1	Duplicate
BB00168-MS1	Matrix Spike
BB00168-PS1	Post Spike
BB00168-SRM1	Reference

Batch ID: BB00232 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
20B0093-01	SB-1 (0-2)
20B0093-02	SB-1 (11-13)
20B0093-03	SB-3 (0-2)
20B0093-05	SB-3 (13-15)
20B0093-06	SB-4 (0-2)
20B0093-07	SB-4 (13-15)
BB00232-BLK1	Blank
BB00232-BLK2	Blank
BB00232-BS1	LCS
BB00232-BSD1	LCS Dup
BB00232-MS1	Matrix Spike
BB00232-MSD1	Matrix Spike Dup

Batch ID: BB00363 **General Method:** Semivolatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
20B0093-01	SB-1 (0-2)
20B0093-02	SB-1 (11-13)
20B0093-02RE1	SB-1 (11-13)
20B0093-02RE2	SB-1 (11-13)
20B0093-02RE3	SB-1 (11-13)
20B0093-03	SB-3 (0-2)
20B0093-03RE1	SB-3 (0-2)
20B0093-05	SB-3 (13-15)
20B0093-06	SB-4 (0-2)
20B0093-07	SB-4 (13-15)
BB00363-BLK1	Blank
BB00363-BS1	LCS

Batch ID: BB00363 **General Method:** Semivolatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
BB00363-MS1	Matrix Spike
BB00363-MSD1	Matrix Spike Dup

Laboratory:	York Analytical Laboratories, Inc.	Client:	Roux Associates
Project:	3475.00014000 Lafayette	Lab Project No:	20B0093
Laboratory Sample ID(s):	20B0093-01 - 20B0093-07	Sampling Date(s):	02/04/2020 - 02/04/2020
Review Date(s):	02/25/2020 - 02/25/2020	Laboratory Reviewer(s):	DEB

Sample Nonconformances

Semivolatile Organic Compounds by GC/MS

Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
20B0093-03 (SB-3 (0-2))	Surrogate: SURR: 2,4,6-Tribromophenol	3310 ug/kg dry	Surrogate	116	19-110	High 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

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
BB00232-MS1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	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.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	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.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	tert-Butylbenzene	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.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	tert-Butylbenzene	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.
BB00136-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.
BB00136-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.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

LabID	Analysis	Analyte	Qualifier	Definition
BB00232-MS1	Volatile Organics, 8260 - Comprehensive	Acrolein	QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	1,4-Dichlorobenzene	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.
BB00232-MS1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BB00232-MS1	Volatile Organics, 8260 - Comprehensive	Methylcyclohexane	QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BB00232-MS1	Volatile Organics, 8260 - Comprehensive	Methylcyclohexane	QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Carbon tetrachloride	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BB00136-BS1	Volatile Organics, 8260 - Comprehensive	Acrolein	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.
BB00232-MS1	Volatile Organics, 8260 - Comprehensive	Acrolein	QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

LabID	Analysis	Analyte	Qualifier	Definition
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	1,2,4-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.
BB00136-BS1	Volatile Organics, 8260 - Comprehensive	Acrolein	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.
BB00136-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.
BB00136-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.
BB00136-BS1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	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.
BB00136-BS1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	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.
BB00136-BS1	Volatile Organics, 8260 - Comprehensive	tert-Butylbenzene	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.
BB00136-BS1	Volatile Organics, 8260 - Comprehensive	tert-Butylbenzene	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
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	Acrolein	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.
BB00136-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.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	Acrolein	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.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	1,2,4-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.
BB00136-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.
BB00136-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.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	1,3-Dichlorobenzene	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.
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	1,3-Dichlorobenzene	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
BB00136-BSD1	Volatile Organics, 8260 - Comprehensive	1,4-Dichlorobenzene	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.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BB00136-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.
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Chloroethane	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).
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	1,4-Dioxane	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).
Y0B0703-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).
Y0B0703-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).
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Acrylonitrile	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
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Acrylonitrile	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).
Y0B0703-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).
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Carbon tetrachloride	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Chloroethane	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).
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	1,2,4-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).
Y0B0703-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).
Y0B0703-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).
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Dichlorodifluoromethane	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
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Dichlorodifluoromethane	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).
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Trichlorofluoromethane	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).
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Trichlorofluoromethane	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).
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Vinyl Chloride	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0B0703-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).
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Acrolein	QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Acrolein	QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Bromomethane	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

LabID	Analysis	Analyte	Qualifier	Definition
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Bromomethane	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Methylcyclohexane	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	1,4-Dioxane	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).
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	1,2,4-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).
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Trichlorofluoromethane	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

LabID	Analysis	Analyte	Qualifier	Definition
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Trichlorofluoromethane	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
Y0B0615-CCV1	Volatile Organics, 8260 - Comprehensive	Carbon tetrachloride	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).
Y0B0615-CCV1	Volatile Organics, 8260 - Comprehensive	Carbon tetrachloride	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).
Y0B0615-CCV1	Volatile Organics, 8260 - Comprehensive	Trichlorofluoromethane	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).
Y0B0615-CCV1	Volatile Organics, 8260 - Comprehensive	Trichlorofluoromethane	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).
Y0B0703-CCV1	Volatile Organics, 8260 - Comprehensive	Vinyl Chloride	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BB00232-MSD1	Volatile Organics, 8260 - Comprehensive	Methylcyclohexane	QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
Y0B1101-CCV1	Semi-Volatiles, 8270 - Comprehensive	Benzyl butyl phthalate	CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
BB00363-MS1	Semi-Volatiles, 8270 - Comprehensive	4,6-Dinitro-2-methylphenol	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BB00363-MS1	Semi-Volatiles, 8270 - Comprehensive	Hexachlorocyclopentadiene	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BB00363-MSD1	Semi-Volatiles, 8270 - Comprehensive	Atrazine	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BB00363-MSD1	Semi-Volatiles, 8270 - Comprehensive	2,4-Dinitrophenol	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BB00363-MSD1	Semi-Volatiles, 8270 - Comprehensive	4,6-Dinitro-2-methylphenol	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BB00363-MSD1	Semi-Volatiles, 8270 - Comprehensive	Benzoic acid	QM-05, J	

LabID	Analysis	Analyte	Qualifier	Definition
BB00363-MSD1	Semi-Volatiles, 8270 - Comprehensive	Hexachlorocyclopentadiene	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
Y0B1101-CCV1	Semi-Volatiles, 8270 - Comprehensive	Benzaldehyde	CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
BB00363-MS1	Semi-Volatiles, 8270 - Comprehensive	2,4-Dinitrophenol	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
Y0B1101-CCV1	Semi-Volatiles, 8270 - Comprehensive	4,6-Dinitro-2-methylphenol	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1127-CCV1	Semi-Volatiles, 8270 - Comprehensive	Dibenzo(a,h)anthracene	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1101-CCV1	Semi-Volatiles, 8270 - Comprehensive	Bis(2-ethylhexyl)phthalate	CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
Y0B1101-CCV1	Semi-Volatiles, 8270 - Comprehensive	Dibenzo(a,h)anthracene	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1101-CCV1	Semi-Volatiles, 8270 - Comprehensive	Hexachlorocyclopentadiene	CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.

LabID	Analysis	Analyte	Qualifier	Definition
Y0B1127-CCV1	Semi-Volatiles, 8270 - Comprehensive	2,4-Dinitrophenol	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1127-CCV1	Semi-Volatiles, 8270 - Comprehensive	4,6-Dinitro-2-methylphenol	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1127-CCV1	Semi-Volatiles, 8270 - Comprehensive	Benzaldehyde	CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
Y0B1127-CCV1	Semi-Volatiles, 8270 - Comprehensive	Benzyl butyl phthalate	CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
Y0B1127-CCV1	Semi-Volatiles, 8270 - Comprehensive	Hexachlorocyclopentadiene	CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
Y0B1101-CCV1	Semi-Volatiles, 8270 - Comprehensive	2,4-Dinitrophenol	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
Y0B1401-CCV4	Pesticides, 8081 target list	Methoxychlor [2C]	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1401-CCV4	Pesticides, 8081 target list	Endrin ketone [2C]	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1124-CCV4	Pesticides, 8081 target list	delta-BHC [2C]	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1124-CCV4	Pesticides, 8081 target list	gamma-BHC (Lindane) [2C]	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1124-CCV4	Pesticides, 8081 target list	beta-BHC [2C]	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1124-CCV4	Pesticides, 8081 target list	alpha-BHC [2C]	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1124-CCV4	Pesticides, 8081 target list	Aldrin [2C]	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
Y0B1124-CCV4	Pesticides, 8081 target list	alpha-Chlordane [2C]	CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
Y0B1025-CCV3	Polychlorinated Biphenyls (PCB)	Decachlorobiphenyl	S-08	The recovery of this surrogate was outside of QC limits.
Y0B1025-CCV4	Polychlorinated Biphenyls (PCB)	Decachlorobiphenyl	S-08	The recovery of this surrogate was outside of QC limits.
Y0B0739-CCV5	Polychlorinated Biphenyls (PCB)	Decachlorobiphenyl	S-08	The recovery of this surrogate was outside of QC limits.
Y0B0739-CCV4	Polychlorinated Biphenyls (PCB)	Decachlorobiphenyl	S-08	The recovery of this surrogate was outside of QC limits.

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
BB00168-MS1	Metals, Target Analyte	Antimony	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
Y0B0539-SRD2	Metals, Target Analyte	Chromium	M-SRD1	The serial dilution for this element was outside control limits.
Y0B0539-SRD2	Metals, Target Analyte	Cobalt	M-SRD1	The serial dilution for this element was outside control limits.
Y0B0539-SRD2	Metals, Target Analyte	Copper	M-SRD1	The serial dilution for this element was outside control limits.
Y0B0539-SRD2	Metals, Target Analyte	Lead	M-SRD1	The serial dilution for this element was outside control limits.
Y0B0539-SRD2	Metals, Target Analyte	Manganese	M-SRD1	The serial dilution for this element was outside control limits.
Y0B0539-SRD2	Metals, Target Analyte	Nickel	M-SRD1	The serial dilution for this element was outside control limits.
Y0B0539-SRD2	Metals, Target Analyte	Vanadium	M-SRD1	The serial dilution for this element was outside control limits.
BB00168-DUP1	Metals, Target Analyte	Cobalt	M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
BB00168-DUP1	Metals, Target Analyte	Copper	M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
Y0B0539-SRD2	Metals, Target Analyte	Calcium	M-SRD1	The serial dilution for this element was outside control limits.
BB00168-MS1	Metals, Target Analyte	Aluminum	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
Y0B1116-ICV1	Metals, Target Analyte	Antimony	M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
BB00168-MS1	Metals, Target Analyte	Barium	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-MS1	Metals, Target Analyte	Beryllium	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-MS1	Metals, Target Analyte	Iron	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-MS1	Metals, Target Analyte	Lead	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.

LabID	Analysis	Analyte	Qualifier	Definition
BB00168-MS1	Metals, Target Analyte	Potassium	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-MS1	Metals, Target Analyte	Silver	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-MS1	Metals, Target Analyte	Calcium	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-MS1	Metals, Target Analyte	Magnesium	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-MS1	Metals, Target Analyte	Manganese	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-MS1	Metals, Target Analyte	Sodium	M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
BB00168-DUP1	Metals, Target Analyte	Manganese	M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity

Analytical Batch Summary

Batch ID: BB00136 **Preparation Method:** EPA 5030B **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-04	Trip Blank	02/05/20
BB00136-BLK1	Blank	02/05/20
BB00136-BS1	LCS	02/05/20
BB00136-BSD1	LCS Dup	02/05/20

Batch ID: BB00144 **Preparation Method:** EPA 7473 soil **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-01	SB-1 (0-2)	02/04/20
20B0093-02	SB-1 (11-13)	02/04/20
20B0093-03	SB-3 (0-2)	02/04/20
20B0093-05	SB-3 (13-15)	02/04/20
20B0093-06	SB-4 (0-2)	02/04/20
20B0093-07	SB-4 (13-15)	02/04/20
BB00144-BLK1	Blank	02/04/20
BB00144-DUP1	Duplicate	02/04/20
BB00144-MS1	Matrix Spike	02/04/20
BB00144-SRM1	Reference	02/04/20

Batch ID: BB00168 **Preparation Method:** EPA 3050B **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-01	SB-1 (0-2)	02/05/20
20B0093-02	SB-1 (11-13)	02/05/20
20B0093-02RE1	SB-1 (11-13)	02/05/20
20B0093-03	SB-3 (0-2)	02/05/20
20B0093-05	SB-3 (13-15)	02/05/20
20B0093-06	SB-4 (0-2)	02/05/20
20B0093-07	SB-4 (13-15)	02/05/20
BB00168-BLK1	Blank	02/05/20
BB00168-DUP1	Duplicate	02/05/20
BB00168-MS1	Matrix Spike	02/05/20
BB00168-PS1	Post Spike	02/05/20
BB00168-SRM1	Reference	02/05/20

Batch ID: BB00178 **Preparation Method:** % Solids Prep **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-01	SB-1 (0-2)	02/05/20
20B0093-02	SB-1 (11-13)	02/05/20
20B0093-03	SB-3 (0-2)	02/05/20
20B0093-05	SB-3 (13-15)	02/05/20
20B0093-06	SB-4 (0-2)	02/05/20
20B0093-07	SB-4 (13-15)	02/05/20

BB00178-DUP1	Duplicate	02/05/20

Batch ID: BB00232 **Preparation Method:** EPA 5035A **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-01	SB-1 (0-2)	02/06/20
20B0093-02	SB-1 (11-13)	02/06/20
20B0093-03	SB-3 (0-2)	02/06/20
20B0093-05	SB-3 (13-15)	02/06/20
20B0093-06	SB-4 (0-2)	02/06/20
20B0093-07	SB-4 (13-15)	02/06/20
BB00232-BLK1	Blank	02/06/20
BB00232-BLK2	Blank	02/06/20
BB00232-BS1	LCS	02/06/20
BB00232-BSD1	LCS Dup	02/06/20
BB00232-MS1	Matrix Spike	02/06/20
BB00232-MSD1	Matrix Spike Dup	02/06/20

Batch ID: BB00283 **Preparation Method:** EPA 3550C **Prepared By:** LJ

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-01	SB-1 (0-2)	02/07/20
20B0093-01	SB-1 (0-2)	02/07/20
BB00283-BLK1	Blank	02/07/20
BB00283-BLK2	Blank	02/07/20
BB00283-BS1	LCS	02/07/20
BB00283-BS2	LCS	02/07/20
BB00283-MS1	Matrix Spike	02/07/20
BB00283-MS2	Matrix Spike	02/07/20
BB00283-MSD1	Matrix Spike Dup	02/07/20
BB00283-MSD2	Matrix Spike Dup	02/07/20

Batch ID: BB00362 **Preparation Method:** EPA 3550C **Prepared By:** LM

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-02	SB-1 (11-13)	02/10/20
20B0093-02	SB-1 (11-13)	02/10/20
20B0093-03	SB-3 (0-2)	02/10/20
20B0093-03	SB-3 (0-2)	02/10/20
20B0093-05	SB-3 (13-15)	02/10/20
20B0093-05	SB-3 (13-15)	02/10/20
20B0093-06	SB-4 (0-2)	02/10/20
20B0093-06	SB-4 (0-2)	02/10/20
20B0093-07	SB-4 (13-15)	02/10/20
20B0093-07	SB-4 (13-15)	02/10/20
BB00362-BLK1	Blank	02/10/20
BB00362-BLK2	Blank	02/10/20
BB00362-BS1	LCS	02/10/20
BB00362-BS2	LCS	02/10/20
BB00362-MS1	Matrix Spike	02/10/20

BB00362-MS2	Matrix Spike	02/10/20
BB00362-MSD1	Matrix Spike Dup	02/10/20
BB00362-MSD2	Matrix Spike Dup	02/10/20

Batch ID: BB00363 **Preparation Method:** EPA 3550C **Prepared By:** LJ

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-01	SB-1 (0-2)	02/10/20
20B0093-02	SB-1 (11-13)	02/10/20
20B0093-02RE1	SB-1 (11-13)	02/10/20
20B0093-02RE2	SB-1 (11-13)	02/10/20
20B0093-02RE3	SB-1 (11-13)	02/10/20
20B0093-03	SB-3 (0-2)	02/10/20
20B0093-03RE1	SB-3 (0-2)	02/10/20
20B0093-05	SB-3 (13-15)	02/10/20
20B0093-06	SB-4 (0-2)	02/10/20
20B0093-07	SB-4 (13-15)	02/10/20
BB00363-BLK1	Blank	02/10/20
BB00363-BS1	LCS	02/10/20
BB00363-MS1	Matrix Spike	02/10/20
BB00363-MSD1	Matrix Spike Dup	02/10/20

Batch ID: BB00650 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAG

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-01	SB-1 (0-2)	02/14/20
BB00650-BLK1	Blank	02/14/20
BB00650-SRM1	Reference	02/14/20

Batch ID: BB00738 **Preparation Method:** Analysis Preparation Soil **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-02	SB-1 (11-13)	02/17/20
20B0093-03	SB-3 (0-2)	02/17/20
20B0093-05	SB-3 (13-15)	02/17/20
20B0093-07	SB-4 (13-15)	02/17/20
BB00738-BLK1	Blank	02/17/20
BB00738-SRM1	Reference	02/17/20

Batch ID: BB00810 **Preparation Method:** Analysis Preparation Soil **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
20B0093-06	SB-4 (0-2)	02/18/20
BB00810-BLK1	Blank	02/18/20
BB00810-DUP1	Duplicate	02/18/20
BB00810-MS1	Matrix Spike	02/18/20
BB00810-SRM1	Reference	02/18/20

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 BB00136 - EPA 5030B											
Blank (BB00136-BLK1)											
Prepared: 02/05/2020 Analyzed: 02/07/2020											
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

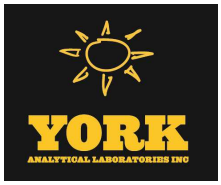
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB00136 - EPA 5030B											
Blank (BB00136-BLK1)								Prepared: 02/05/2020 Analyzed: 02/07/2020			
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	*11.0*		*"*	*10.0*		*110*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BB00136-BS1)								Prepared: 02/05/2020 Analyzed: 02/07/2020			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126				
1,1,1-Trichloroethane	11		"	10.0		109	78-136				
1,1,2,2-Tetrachloroethane	8.9		"	10.0		89.1	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		102	54-165				
1,1,2-Trichloroethane	9.2		"	10.0		91.7	82-123				
1,1-Dichloroethane	9.5		"	10.0		94.6	82-129				
1,1-Dichloroethylene	9.6		"	10.0		96.0	68-138				
1,2,3-Trichlorobenzene	6.9		"	10.0		68.8	76-136	Low Bias			
1,2,3-Trichloropropane	9.6		"	10.0		96.2	77-128				
1,2,4-Trichlorobenzene	7.8		"	10.0		77.6	76-137				
1,2,4-Trimethylbenzene	9.0		"	10.0		90.5	82-132				
1,2-Dibromo-3-chloropropane	9.4		"	10.0		93.8	45-147				
1,2-Dibromoethane	9.4		"	10.0		93.7	83-124				
1,2-Dichlorobenzene	9.0		"	10.0		90.5	79-123				
1,2-Dichloroethane	11		"	10.0		109	73-132				
1,2-Dichloropropane	8.8		"	10.0		88.4	78-126				
1,3,5-Trimethylbenzene	9.2		"	10.0		92.4	80-131				
1,3-Dichlorobenzene	9.0		"	10.0		90.1	86-122				
1,4-Dichlorobenzene	9.0		"	10.0		90.0	85-124				
1,4-Dioxane	150		"	210		69.9	10-349				
2-Butanone	10		"	10.0		101	49-152				
2-Hexanone	9.1		"	10.0		90.8	51-146				
4-Methyl-2-pentanone	9.4		"	10.0		93.8	57-145				
Acetone	10		"	10.0		102	14-150				
Acrolein	5.7		"	100		5.73	10-153	Low Bias			
Acrylonitrile	13		"	10.0		128	51-150				
Benzene	9.2		"	10.0		92.1	85-126				
Bromochloromethane	9.7		"	10.0		97.4	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 BB00136 - EPA 5030B											
LCS (BB00136-BS1)								Prepared: 02/05/2020 Analyzed: 02/07/2020			
Bromodichloromethane	9.7		ug/L	10.0		97.4	79-128				
Bromoform	10		"	10.0		102	78-133				
Bromomethane	14		"	10.0		140	43-168				
Carbon disulfide	8.1		"	10.0		81.1	68-146				
Carbon tetrachloride	11		"	10.0		107	77-141				
Chlorobenzene	9.1		"	10.0		91.4	88-120				
Chloroethane	11		"	10.0		111	65-136				
Chloroform	10		"	10.0		102	82-128				
Chloromethane	9.3		"	10.0		92.8	43-155				
cis-1,2-Dichloroethylene	9.5		"	10.0		94.8	83-129				
cis-1,3-Dichloropropylene	9.2		"	10.0		91.6	80-131				
Cyclohexane	4.0		"	10.0		40.1	63-149	Low Bias			
Dibromochloromethane	10		"	10.0		101	80-130				
Dibromomethane	9.7		"	10.0		97.4	72-134				
Dichlorodifluoromethane	12		"	10.0		124	44-144				
Ethyl Benzene	9.5		"	10.0		95.4	80-131				
Hexachlorobutadiene	7.4		"	10.0		74.5	67-146				
Isopropylbenzene	8.7		"	10.0		86.7	76-140				
Methyl acetate	8.9		"	10.0		89.2	51-139				
Methyl tert-butyl ether (MTBE)	10		"	10.0		103	76-135				
Methylcyclohexane	8.7		"	10.0		86.9	72-143				
Methylene chloride	9.5		"	10.0		95.4	55-137				
n-Butylbenzene	9.0		"	10.0		89.7	79-132				
n-Propylbenzene	8.7		"	10.0		86.8	78-133				
o-Xylene	9.7		"	10.0		97.3	78-130				
p- & m- Xylenes	19		"	20.0		95.4	77-133				
p-Isopropyltoluene	8.9		"	10.0		89.0	81-136				
sec-Butylbenzene	9.2		"	10.0		91.8	79-137				
Styrene	9.7		"	10.0		96.9	67-132				
tert-Butyl alcohol (TBA)	48		"	50.0		95.1	25-162				
tert-Butylbenzene	7.7		"	10.0		76.7	77-138	Low Bias			
Tetrachloroethylene	8.2		"	10.0		81.5	82-131	Low Bias			
Toluene	8.8		"	10.0		88.2	80-127				
trans-1,2-Dichloroethylene	9.4		"	10.0		93.8	80-132				
trans-1,3-Dichloropropylene	9.5		"	10.0		95.3	78-131				
trans-1,4-dichloro-2-butene	11		"	10.0		111	63-141				
Trichloroethylene	8.9		"	10.0		89.2	82-128				
Trichlorofluoromethane	12		"	10.0		122	67-139				
Vinyl Chloride	12		"	10.0		120	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.77*		*"*	*10.0*		*97.7*	*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 BB00136 - EPA 5030B											
LCS Dup (BB00136-BSD1)								Prepared: 02/05/2020 Analyzed: 02/07/2020			
1,1,1,2-Tetrachloroethane	9.6		ug/L	10.0		96.0	82-126		6.45	30	
1,1,1-Trichloroethane	10		"	10.0		102	78-136		7.30	30	
1,1,2,2-Tetrachloroethane	8.4		"	10.0		84.1	76-129		5.77	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.5		"	10.0		94.6	54-165		8.02	30	
1,1,2-Trichloroethane	8.8		"	10.0		87.9	82-123		4.23	30	
1,1-Dichloroethane	9.0		"	10.0		89.6	82-129		5.43	30	
1,1-Dichloroethylene	8.9		"	10.0		89.0	68-138		7.57	30	
1,2,3-Trichlorobenzene	6.4		"	10.0		64.0	76-136	Low Bias	7.23	30	
1,2,3-Trichloropropane	9.0		"	10.0		89.8	77-128		6.88	30	
1,2,4-Trichlorobenzene	7.1		"	10.0		70.8	76-137	Low Bias	9.16	30	
1,2,4-Trimethylbenzene	8.4		"	10.0		84.4	82-132		6.98	30	
1,2-Dibromo-3-chloropropane	8.3		"	10.0		83.4	45-147		11.7	30	
1,2-Dibromoethane	9.0		"	10.0		90.1	83-124		3.92	30	
1,2-Dichlorobenzene	8.5		"	10.0		84.8	79-123		6.50	30	
1,2-Dichloroethane	11		"	10.0		106	73-132		2.60	30	
1,2-Dichloropropane	8.4		"	10.0		84.5	78-126		4.51	30	
1,3,5-Trimethylbenzene	8.5		"	10.0		84.9	80-131		8.46	30	
1,3-Dichlorobenzene	8.4		"	10.0		83.9	86-122	Low Bias	7.13	30	
1,4-Dichlorobenzene	8.3		"	10.0		83.4	85-124	Low Bias	7.61	30	
1,4-Dioxane	120		"	210		58.7	10-349		17.5	30	
2-Butanone	8.2		"	10.0		82.1	49-152		20.9	30	
2-Hexanone	8.4		"	10.0		84.4	51-146		7.31	30	
4-Methyl-2-pentanone	9.5		"	10.0		95.0	57-145		1.27	30	
Acetone	8.6		"	10.0		86.2	14-150		16.4	30	
Acrolein	6.8		"	100		6.83	10-153	Low Bias	17.5	30	
Acrylonitrile	13		"	10.0		131	51-150		2.32	30	
Benzene	8.8		"	10.0		87.9	85-126		4.67	30	
Bromochloromethane	9.4		"	10.0		94.0	77-128		3.55	30	
Bromodichloromethane	9.4		"	10.0		94.0	79-128		3.55	30	
Bromoform	10		"	10.0		100	78-133		2.27	30	
Bromomethane	13		"	10.0		131	43-168		6.69	30	
Carbon disulfide	7.6		"	10.0		76.2	68-146		6.23	30	
Carbon tetrachloride	10		"	10.0		103	77-141		4.18	30	
Chlorobenzene	8.8		"	10.0		88.1	88-120		3.68	30	
Chloroethane	9.6		"	10.0		96.1	65-136		14.3	30	
Chloroform	9.8		"	10.0		97.5	82-128		4.02	30	
Chloromethane	8.8		"	10.0		88.2	43-155		5.08	30	
cis-1,2-Dichloroethylene	9.2		"	10.0		91.9	83-129		3.11	30	
cis-1,3-Dichloropropylene	8.8		"	10.0		88.4	80-131		3.56	30	
Cyclohexane	3.7		"	10.0		36.7	63-149	Low Bias	8.85	30	
Dibromochloromethane	9.8		"	10.0		98.1	80-130		3.21	30	
Dibromomethane	9.4		"	10.0		94.5	72-134		3.02	30	
Dichlorodifluoromethane	12		"	10.0		116	44-144		6.56	30	
Ethyl Benzene	9.1		"	10.0		90.7	80-131		5.05	30	
Hexachlorobutadiene	6.8		"	10.0		67.6	67-146		9.71	30	
Isopropylbenzene	8.0		"	10.0		79.7	76-140		8.41	30	
Methyl acetate	7.8		"	10.0		77.8	51-139		13.7	30	
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		97.4	76-135		5.49	30	
Methylcyclohexane	8.1		"	10.0		80.7	72-143		7.40	30	
Methylene chloride	9.1		"	10.0		91.4	55-137		4.28	30	
n-Butylbenzene	8.5		"	10.0		84.6	79-132		5.85	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 BB00136 - EPA 5030B											
LCS Dup (BB00136-BSD1)									Prepared: 02/05/2020 Analyzed: 02/07/2020		
n-Propylbenzene	8.1		ug/L	10.0		80.7	78-133		7.28	30	
o-Xylene	9.4		"	10.0		94.0	78-130		3.45	30	
p- & m- Xylenes	18		"	20.0		91.4	77-133		4.34	30	
p-Isopropyltoluene	8.5		"	10.0		85.4	81-136		4.13	30	
sec-Butylbenzene	8.6		"	10.0		86.3	79-137		6.18	30	
Styrene	9.7		"	10.0		96.8	67-132		0.103	30	
tert-Butyl alcohol (TBA)	48		"	50.0		95.4	25-162		0.315	30	
tert-Butylbenzene	7.2		"	10.0		72.2	77-138	Low Bias	6.04	30	
Tetrachloroethylene	7.8		"	10.0		77.8	82-131	Low Bias	4.65	30	
Toluene	8.6		"	10.0		85.8	80-127		2.76	30	
trans-1,2-Dichloroethylene	8.8		"	10.0		88.5	80-132		5.81	30	
trans-1,3-Dichloropropylene	9.1		"	10.0		91.1	78-131		4.51	30	
trans-1,4-dichloro-2-butene	9.8		"	10.0		97.9	63-141		12.2	30	
Trichloroethylene	8.6		"	10.0		85.6	82-128		4.12	30	
Trichlorofluoromethane	11		"	10.0		111	67-139		9.62	30	
Vinyl Chloride	11		"	10.0		110	58-145		8.85	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.58*		*"*	*10.0*		*95.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.29*		*"*	*10.0*		*92.9*	*79-122*				
Batch BB00232 - EPA 5035A											
Blank (BB00232-BLK1)									Prepared & Analyzed: 02/06/2020		
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB00232 - EPA 5035A											
Blank (BB00232-BLK1)											Prepared & Analyzed: 02/06/2020
Bromodichloromethane	ND	5.0	ug/kg wet								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	25	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.6*		*ug/L*	*50.0*		*105*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.0*		*"*	*50.0*		*93.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.0*		*"*	*50.0*		*96.1*	*76-130*				

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 BB00232 - EPA 5035A											
Blank (BB00232-BLK2)											
Prepared & Analyzed: 02/06/2020											
1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet								
1,1,1-Trichloroethane	ND	500	"								
1,1,2,2-Tetrachloroethane	ND	500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"								
1,1,2-Trichloroethane	ND	500	"								
1,1-Dichloroethane	ND	500	"								
1,1-Dichloroethylene	ND	500	"								
1,2,3-Trichlorobenzene	ND	500	"								
1,2,3-Trichloropropane	ND	500	"								
1,2,4-Trichlorobenzene	ND	500	"								
1,2,4-Trimethylbenzene	ND	500	"								
1,2-Dibromo-3-chloropropane	ND	500	"								
1,2-Dibromoethane	ND	500	"								
1,2-Dichlorobenzene	ND	500	"								
1,2-Dichloroethane	ND	500	"								
1,2-Dichloropropane	ND	500	"								
1,3,5-Trimethylbenzene	ND	500	"								
1,3-Dichlorobenzene	ND	500	"								
1,4-Dichlorobenzene	ND	500	"								
1,4-Dioxane	ND	10000	"								
2-Butanone	ND	500	"								
2-Hexanone	ND	500	"								
4-Methyl-2-pentanone	ND	500	"								
Acetone	ND	1000	"								
Acrolein	ND	1000	"								
Acrylonitrile	ND	500	"								
Benzene	ND	500	"								
Bromochloromethane	ND	500	"								
Bromodichloromethane	ND	500	"								
Bromoform	ND	500	"								
Bromomethane	ND	500	"								
Carbon disulfide	ND	500	"								
Carbon tetrachloride	ND	500	"								
Chlorobenzene	ND	500	"								
Chloroethane	ND	500	"								
Chloroform	ND	500	"								
Chloromethane	ND	500	"								
cis-1,2-Dichloroethylene	ND	500	"								
cis-1,3-Dichloropropylene	ND	500	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	ND	1000	"								
n-Butylbenzene	ND	500	"								

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 BB00232 - EPA 5035A											
Blank (BB00232-BLK2)									Prepared & Analyzed: 02/06/2020		
n-Propylbenzene	ND	500	ug/kg wet								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	2500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
trans-1,4-dichloro-2-butene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.4*		*ug/L*	*50.0*		*105*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.2*		*"*	*50.0*		*94.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.9*		*"*	*50.0*		*95.8*	*76-130*				
LCS (BB00232-BS1)									Prepared & Analyzed: 02/06/2020		
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		103	75-129				
1,1,1-Trichloroethane	60		"	50.0		120	71-137				
1,1,2,2-Tetrachloroethane	47		"	50.0		94.4	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	62		"	50.0		124	58-146				
1,1,2-Trichloroethane	49		"	50.0		98.4	83-123				
1,1-Dichloroethane	53		"	50.0		106	75-130				
1,1-Dichloroethylene	58		"	50.0		116	64-137				
1,2,3-Trichlorobenzene	51		"	50.0		102	81-140				
1,2,3-Trichloropropane	49		"	50.0		98.5	81-126				
1,2,4-Trichlorobenzene	51		"	50.0		103	80-141				
1,2,4-Trimethylbenzene	49		"	50.0		98.7	84-125				
1,2-Dibromo-3-chloropropane	42		"	50.0		83.1	74-142				
1,2-Dibromoethane	53		"	50.0		105	86-123				
1,2-Dichlorobenzene	49		"	50.0		98.4	85-122				
1,2-Dichloroethane	57		"	50.0		114	71-133				
1,2-Dichloropropane	47		"	50.0		94.3	81-122				
1,3,5-Trimethylbenzene	49		"	50.0		98.6	82-126				
1,3-Dichlorobenzene	49		"	50.0		97.2	84-124				
1,4-Dichlorobenzene	48		"	50.0		96.2	84-124				
1,4-Dioxane	1100		"	1050		105	10-228				
2-Butanone	57		"	50.0		115	58-147				
2-Hexanone	51		"	50.0		101	70-139				
4-Methyl-2-pentanone	50		"	50.0		100	72-132				
Acetone	48		"	50.0		96.9	36-155				
Acrolein	66		"	50.0		132	10-238				
Acrylonitrile	55		"	50.0		110	66-141				
Benzene	55		"	50.0		111	77-127				
Bromochloromethane	55		"	50.0		110	74-129				
Bromodichloromethane	52		"	50.0		103	81-124				

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 BB00232 - EPA 5035A											
LCS (BB00232-BS1)								Prepared & Analyzed: 02/06/2020			
Bromoform	46		ug/L	50.0		91.4	80-136				
Bromomethane	63		"	50.0		126	32-177				
Carbon disulfide	58		"	50.0		115	10-136				
Carbon tetrachloride	59		"	50.0		119	66-143				
Chlorobenzene	50		"	50.0		99.9	86-120				
Chloroethane	69		"	50.0		138	51-142				
Chloroform	56		"	50.0		112	76-131				
Chloromethane	56		"	50.0		111	49-132				
cis-1,2-Dichloroethylene	55		"	50.0		110	74-132				
cis-1,3-Dichloropropylene	50		"	50.0		99.3	81-129				
Cyclohexane	62		"	50.0		125	70-130				
Dibromochloromethane	48		"	50.0		96.4	10-200				
Dibromomethane	50		"	50.0		100	83-124				
Dichlorodifluoromethane	60		"	50.0		121	28-158				
Ethyl Benzene	51		"	50.0		103	84-125				
Hexachlorobutadiene	52		"	50.0		104	83-133				
Isopropylbenzene	48		"	50.0		95.0	81-127				
Methyl acetate	53		"	50.0		107	41-143				
Methyl tert-butyl ether (MTBE)	56		"	50.0		111	74-131				
Methylcyclohexane	52		"	50.0		103	70-130				
Methylene chloride	61		"	50.0		121	57-141				
n-Butylbenzene	44		"	50.0		88.2	80-130				
n-Propylbenzene	47		"	50.0		94.6	74-136				
o-Xylene	51		"	50.0		102	83-123				
p- & m- Xylenes	100		"	100		103	82-128				
p-Isopropyltoluene	50		"	50.0		99.9	85-125				
sec-Butylbenzene	51		"	50.0		102	83-125				
Styrene	53		"	50.0		105	86-126				
tert-Butyl alcohol (TBA)	260		"	250		104	70-130				
tert-Butylbenzene	42		"	50.0		83.8	80-127				
Tetrachloroethylene	49		"	50.0		97.0	80-129				
Toluene	51		"	50.0		101	85-121				
trans-1,2-Dichloroethylene	59		"	50.0		118	72-132				
trans-1,3-Dichloropropylene	49		"	50.0		97.1	78-132				
trans-1,4-dichloro-2-butene	47		"	50.0		93.0	75-135				
Trichloroethylene	51		"	50.0		102	84-123				
Trichlorofluoromethane	62		"	50.0		125	62-140				
Vinyl Chloride	59		"	50.0		118	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*53.1*		*"*	*50.0*		*106*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.3*		*"*	*50.0*		*94.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.1*		*"*	*50.0*		*96.3*	*76-130*				

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 BB00232 - EPA 5035A											
LCS Dup (BB00232-BSD1)							Prepared & Analyzed: 02/06/2020				
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129		1.44	30	
1,1,1-Trichloroethane	58		"	50.0		117	71-137		2.27	30	
1,1,2,2-Tetrachloroethane	46		"	50.0		92.4	79-129		2.06	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	60		"	50.0		120	58-146		3.05	30	
1,1,2-Trichloroethane	48		"	50.0		96.3	83-123		2.10	30	
1,1-Dichloroethane	52		"	50.0		104	75-130		1.87	30	
1,1-Dichloroethylene	57		"	50.0		114	64-137		2.00	30	
1,2,3-Trichlorobenzene	50		"	50.0		100	81-140		1.27	30	
1,2,3-Trichloropropane	48		"	50.0		96.4	81-126		2.22	30	
1,2,4-Trichlorobenzene	51		"	50.0		101	80-141		1.74	30	
1,2,4-Trimethylbenzene	49		"	50.0		97.4	84-125		1.24	30	
1,2-Dibromo-3-chloropropane	42		"	50.0		84.2	74-142		1.22	30	
1,2-Dibromoethane	51		"	50.0		103	86-123		2.75	30	
1,2-Dichlorobenzene	48		"	50.0		96.9	85-122		1.49	30	
1,2-Dichloroethane	56		"	50.0		111	71-133		2.61	30	
1,2-Dichloropropane	46		"	50.0		92.9	81-122		1.54	30	
1,3,5-Trimethylbenzene	49		"	50.0		97.3	82-126		1.31	30	
1,3-Dichlorobenzene	48		"	50.0		96.2	84-124		0.972	30	
1,4-Dichlorobenzene	48		"	50.0		96.1	84-124		0.104	30	
1,4-Dioxane	980		"	1050		93.1	10-228		11.9	30	
2-Butanone	54		"	50.0		109	58-147		5.49	30	
2-Hexanone	47		"	50.0		94.8	70-139		6.47	30	
4-Methyl-2-pentanone	47		"	50.0		94.8	72-132		5.28	30	
Acetone	45		"	50.0		90.3	36-155		7.12	30	
Acrolein	60		"	50.0		121	10-238		8.91	30	
Acrylonitrile	53		"	50.0		106	66-141		4.18	30	
Benzene	54		"	50.0		108	77-127		2.83	30	
Bromochloromethane	53		"	50.0		107	74-129		3.26	30	
Bromodichloromethane	51		"	50.0		102	81-124		1.58	30	
Bromoform	45		"	50.0		90.3	80-136		1.21	30	
Bromomethane	61		"	50.0		123	32-177		2.38	30	
Carbon disulfide	57		"	50.0		113	10-136		1.91	30	
Carbon tetrachloride	58		"	50.0		115	66-143		3.15	30	
Chlorobenzene	49		"	50.0		98.6	86-120		1.35	30	
Chloroethane	68		"	50.0		136	51-142		1.15	30	
Chloroform	55		"	50.0		110	76-131		1.92	30	
Chloromethane	53		"	50.0		106	49-132		4.86	30	
cis-1,2-Dichloroethylene	53		"	50.0		107	74-132		2.94	30	
cis-1,3-Dichloropropylene	49		"	50.0		97.8	81-129		1.50	30	
Cyclohexane	60		"	50.0		121	70-130		3.21	30	
Dibromochloromethane	47		"	50.0		94.8	10-200		1.69	30	
Dibromomethane	49		"	50.0		98.9	83-124		1.03	30	
Dichlorodifluoromethane	58		"	50.0		116	28-158		4.30	30	
Ethyl Benzene	50		"	50.0		101	84-125		1.96	30	
Hexachlorobutadiene	51		"	50.0		101	83-133		2.71	30	
Isopropylbenzene	47		"	50.0		93.5	81-127		1.65	30	
Methyl acetate	50		"	50.0		101	41-143		5.40	30	
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131		2.69	30	
Methylcyclohexane	51		"	50.0		101	70-130		2.37	30	
Methylene chloride	58		"	50.0		117	57-141		3.43	30	
n-Butylbenzene	41		"	50.0		81.6	80-130		7.84	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 BB00232 - EPA 5035A											
LCS Dup (BB00232-BSD1)								Prepared & Analyzed: 02/06/2020			
n-Propylbenzene	47		ug/L	50.0		93.9	74-136		0.806	30	
o-Xylene	50		"	50.0		99.5	83-123		2.07	30	
p- & m- Xylenes	100		"	100		100	82-128		2.66	30	
p-Isopropyltoluene	49		"	50.0		98.7	85-125		1.19	30	
sec-Butylbenzene	50		"	50.0		101	83-125		1.17	30	
Styrene	51		"	50.0		102	86-126		2.68	30	
tert-Butyl alcohol (TBA)	240		"	250		95.9	70-130		7.86	30	
tert-Butylbenzene	42		"	50.0		83.4	80-127		0.526	30	
Tetrachloroethylene	47		"	50.0		94.3	80-129		2.80	30	
Toluene	49		"	50.0		98.5	85-121		2.98	30	
trans-1,2-Dichloroethylene	57		"	50.0		115	72-132		2.67	30	
trans-1,3-Dichloropropylene	48		"	50.0		96.5	78-132		0.661	30	
trans-1,4-dichloro-2-butene	45		"	50.0		90.5	75-135		2.77	30	
Trichloroethylene	51		"	50.0		101	84-123		1.08	30	
Trichlorofluoromethane	61		"	50.0		121	62-140		2.99	30	
Vinyl Chloride	57		"	50.0		113	52-130		4.36	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.0*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.4*		*"*	*50.0*		*94.7*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.6*		*"*	*50.0*		*97.2*	*76-130*				
Matrix Spike (BB00232-MS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/06/2020			
1,1,1,2-Tetrachloroethane	30		ug/L	50.0	0.0	59.3	15-161				
1,1,1-Trichloroethane	39		"	50.0	0.0	78.1	42-145				
1,1,2,2-Tetrachloroethane	26		"	50.0	0.0	52.9	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40		"	50.0	0.0	79.5	11-160				
1,1,2-Trichloroethane	35		"	50.0	0.0	69.9	44-145				
1,1-Dichloroethane	38		"	50.0	0.0	76.8	46-142				
1,1-Dichloroethylene	39		"	50.0	0.0	78.6	30-153				
1,2,3-Trichlorobenzene	6.2		"	50.0	0.0	12.4	10-157				
1,2,3-Trichloropropane	32		"	50.0	0.0	63.5	38-155				
1,2,4-Trichlorobenzene	6.1		"	50.0	0.0	12.2	10-151				
1,2,4-Trimethylbenzene	16		"	50.0	0.0	32.6	10-170				
1,2-Dibromo-3-chloropropane	22		"	50.0	0.0	43.4	36-138				
1,2-Dibromoethane	34		"	50.0	0.0	68.4	40-142				
1,2-Dichlorobenzene	14		"	50.0	0.0	27.8	10-147				
1,2-Dichloroethane	44		"	50.0	0.0	87.9	48-133				
1,2-Dichloropropane	33		"	50.0	0.0	65.8	47-141				
1,3,5-Trimethylbenzene	17		"	50.0	0.0	34.9	10-150				
1,3-Dichlorobenzene	13		"	50.0	0.0	25.8	10-144				
1,4-Dichlorobenzene	13		"	50.0	0.0	25.4	10-160				
1,4-Dioxane	960		"	1050	0.0	91.0	10-191				
2-Butanone	40		"	50.0	0.0	80.1	10-189				
2-Hexanone	28		"	50.0	0.0	56.4	10-181				
4-Methyl-2-pentanone	34		"	50.0	0.0	68.4	10-166				
Acetone	47		"	50.0	0.0	93.8	10-196				
Acrolein	0.0		"	50.0	0.0		10-192	Low Bias			
Acrylonitrile	37		"	50.0	0.0	74.2	13-161				
Benzene	38		"	50.0	0.0	76.0	43-139				
Bromochloromethane	41		"	50.0	0.0	82.2	38-145				
Bromodichloromethane	34		"	50.0	0.0	68.5	38-147				
Bromoform	27		"	50.0	0.0	53.5	29-156				

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 BB00232 - EPA 5035A											
Matrix Spike (BB00232-MS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/06/2020			
Bromomethane	25		ug/L	50.0	0.0	49.6	10-166				
Carbon disulfide	34		"	50.0	0.0	67.5	10-131				
Carbon tetrachloride	37		"	50.0	0.0	73.2	35-145				
Chlorobenzene	24		"	50.0	0.0	48.6	21-154				
Chloroethane	48		"	50.0	0.0	95.7	15-160				
Chloroform	40		"	50.0	0.0	80.8	47-142				
Chloromethane	39		"	50.0	0.0	78.0	10-159				
cis-1,2-Dichloroethylene	37		"	50.0	0.0	73.5	42-144				
cis-1,3-Dichloropropylene	29		"	50.0	0.0	57.0	18-159				
Cyclohexane	34		"	50.0	0.0	67.7	70-130	Low Bias			
Dibromochloromethane	31		"	50.0	0.0	62.1	10-179				
Dibromomethane	36		"	50.0	0.0	71.1	47-143				
Dichlorodifluoromethane	41		"	50.0	0.0	82.7	10-145				
Ethyl Benzene	25		"	50.0	0.0	49.8	11-158				
Hexachlorobutadiene	6.4		"	50.0	0.0	12.8	10-158				
Isopropylbenzene	21		"	50.0	0.0	41.1	10-162				
Methyl acetate	34		"	50.0	0.0	68.3	10-149				
Methyl tert-butyl ether (MTBE)	43		"	50.0	0.0	87.0	42-152				
Methylcyclohexane	24		"	50.0	0.0	47.2	70-130	Low Bias			
Methylene chloride	49		"	50.0	2.6	92.6	28-151				
n-Butylbenzene	10		"	50.0	0.0	21.0	10-162				
n-Propylbenzene	17		"	50.0	0.0	34.5	10-155				
o-Xylene	24		"	50.0	0.0	48.1	10-158				
p- & m- Xylenes	47		"	100	0.0	47.2	10-156				
p-Isopropyltoluene	15		"	50.0	0.0	29.2	10-147				
sec-Butylbenzene	17		"	50.0	0.0	33.3	10-157				
Styrene	22		"	50.0	0.0	43.0	13-171				
tert-Butyl alcohol (TBA)	200		"	250	0.0	80.8	34-179				
tert-Butylbenzene	16		"	50.0	0.0	31.8	10-160				
Tetrachloroethylene	24		"	50.0	0.0	47.5	30-167				
Toluene	30		"	50.0	0.0	59.2	21-160				
trans-1,2-Dichloroethylene	38		"	50.0	0.0	75.5	29-153				
trans-1,3-Dichloropropylene	25		"	50.0	0.0	50.5	18-155				
trans-1,4-dichloro-2-butene	26		"	50.0	0.0	52.6	17-154				
Trichloroethylene	31		"	50.0	0.0	62.6	24-169				
Trichlorofluoromethane	39		"	50.0	0.0	78.8	35-142				
Vinyl Chloride	39		"	50.0	0.0	78.5	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.2*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.0*		*"*	*50.0*		*93.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.8*		*"*	*50.0*		*95.5*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

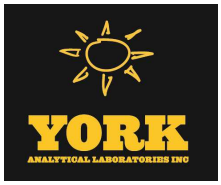
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB00232 - EPA 5035A											
Matrix Spike Dup (BB00232-MSD1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/06/2020			
1,1,1,2-Tetrachloroethane	35		ug/L	50.0	0.0	70.7	15-161		17.6	33	
1,1,1-Trichloroethane	52		"	50.0	0.0	104	42-145		28.2	30	
1,1,2,2-Tetrachloroethane	29		"	50.0	0.0	58.0	16-167		9.16	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0	0.0	112	11-160		33.8	31	Non-dir.
1,1,2-Trichloroethane	36		"	50.0	0.0	71.1	44-145		1.76	40	
1,1-Dichloroethane	44		"	50.0	0.0	89.0	46-142		14.7	36	
1,1-Dichloroethylene	52		"	50.0	0.0	104	30-153		27.5	31	
1,2,3-Trichlorobenzene	9.7		"	50.0	0.0	19.4	10-157		44.3	47	
1,2,3-Trichloropropane	33		"	50.0	0.0	66.7	38-155		4.89	48	
1,2,4-Trichlorobenzene	9.8		"	50.0	0.0	19.6	10-151		46.5	52	
1,2,4-Trimethylbenzene	24		"	50.0	0.0	47.7	10-170		37.7	242	
1,2-Dibromo-3-chloropropane	25		"	50.0	0.0	49.7	36-138		13.6	54	
1,2-Dibromoethane	35		"	50.0	0.0	70.5	40-142		3.08	39	
1,2-Dichlorobenzene	19		"	50.0	0.0	38.0	10-147		31.2	52	
1,2-Dichloroethane	43		"	50.0	0.0	85.3	48-133		2.98	32	
1,2-Dichloropropane	36		"	50.0	0.0	72.6	47-141		9.82	37	
1,3,5-Trimethylbenzene	26		"	50.0	0.0	51.4	10-150		38.3	62	
1,3-Dichlorobenzene	19		"	50.0	0.0	37.2	10-144		36.2	51	
1,4-Dichlorobenzene	18		"	50.0	0.0	36.0	10-160		34.6	52	
1,4-Dioxane	800		"	1050	0.0	76.0	10-191		18.0	196	
2-Butanone	39		"	50.0	0.0	78.2	10-189		2.32	67	
2-Hexanone	28		"	50.0	0.0	56.5	10-181		0.248	60	
4-Methyl-2-pentanone	33		"	50.0	0.0	67.0	10-166		2.19	47	
Acetone	59		"	50.0	0.0	118	10-196		22.8	150	
Acrolein	0.0		"	50.0	0.0		10-192	Low Bias		128	
Acrylonitrile	36		"	50.0	0.0	72.3	13-161		2.62	48	
Benzene	45		"	50.0	0.0	89.4	43-139		16.1	64	
Bromochloromethane	41		"	50.0	0.0	82.3	38-145		0.122	30	
Bromodichloromethane	38		"	50.0	0.0	75.7	38-147		10.0	37	
Bromoform	29		"	50.0	0.0	58.6	29-156		9.20	51	
Bromomethane	51		"	50.0	0.0	102	10-166		69.5	42	Non-dir.
Carbon disulfide	46		"	50.0	0.0	92.6	10-131		31.3	36	
Carbon tetrachloride	51		"	50.0	0.0	102	35-145		32.6	31	Non-dir.
Chlorobenzene	30		"	50.0	0.0	59.9	21-154		20.8	32	
Chloroethane	60		"	50.0	0.0	120	15-160		22.5	40	
Chloroform	46		"	50.0	0.0	91.6	47-142		12.5	29	
Chloromethane	48		"	50.0	0.0	96.2	10-159		20.9	31	
cis-1,2-Dichloroethylene	43		"	50.0	0.0	85.0	42-144		14.5	30	
cis-1,3-Dichloropropylene	31		"	50.0	0.0	62.0	18-159		8.30	39	
Cyclohexane	50		"	50.0	0.0	99.2	70-130		37.7	30	Non-dir.
Dibromochloromethane	34		"	50.0	0.0	67.3	10-179		7.94	41	
Dibromomethane	36		"	50.0	0.0	72.5	47-143		1.98	41	
Dichlorodifluoromethane	58		"	50.0	0.0	116	10-145		33.1	34	
Ethyl Benzene	34		"	50.0	0.0	67.0	11-158		29.4	42	
Hexachlorobutadiene	11		"	50.0	0.0	22.3	10-158		54.3	45	Non-dir.
Isopropylbenzene	30		"	50.0	0.0	59.3	10-162		36.3	57	
Methyl acetate	34		"	50.0	0.0	68.4	10-149		0.146	64	
Methyl tert-butyl ether (MTBE)	43		"	50.0	0.0	86.0	42-152		1.18	47	
Methylcyclohexane	36		"	50.0	0.0	71.1	70-130		40.5	30	Non-dir.
Methylene chloride	52		"	50.0	3.4	97.2	28-151		4.81	49	
n-Butylbenzene	16		"	50.0	0.0	32.8	10-162		44.0	96	

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 BB00232 - EPA 5035A											
Matrix Spike Dup (BB00232-MSD1)	*Source sample: 20B0093-06 (SB-4 (0-2))						Prepared & Analyzed: 02/06/2020				
n-Propylbenzene	26		ug/L	50.0	0.0	51.5	10-155		39.6	56	
o-Xylene	32		"	50.0	0.0	63.0	10-158		26.9	51	
p- & m- Xylenes	64		"	100	0.0	63.8	10-156		29.8	47	
p-Isopropyltoluene	23		"	50.0	0.0	46.1	10-147		45.0	60	
sec-Butylbenzene	26		"	50.0	0.0	52.3	10-157		44.5	56	
Styrene	27		"	50.0	0.0	54.5	13-171		23.5	39	
tert-Butyl alcohol (TBA)	200		"	250	0.0	78.3	34-179		3.12	35	
tert-Butylbenzene	24		"	50.0	0.0	47.9	10-160		40.2	79	
Tetrachloroethylene	34		"	50.0	0.0	67.9	30-167		35.3	33	Non-dir.
Toluene	37		"	50.0	0.0	73.5	21-160		21.6	50	
trans-1,2-Dichloroethylene	46		"	50.0	0.0	91.9	29-153		19.6	30	
trans-1,3-Dichloropropylene	27		"	50.0	0.0	54.2	18-155		7.11	30	
trans-1,4-dichloro-2-butene	28		"	50.0	0.0	56.0	17-154		6.30	30	
Trichloroethylene	39		"	50.0	0.0	78.9	24-169		23.1	30	
Trichlorofluoromethane	55		"	50.0	0.0	110	35-142		33.5	30	Non-dir.
Vinyl Chloride	52		"	50.0	0.0	104	12-160		27.7	35	
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.9*		*"*	*50.0*		*106*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.6*		*"*	*50.0*		*93.2*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.9*		*"*	*50.0*		*95.7*	*76-130*				



Semivolatile 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 BB00363 - EPA 3550C											
Blank (BB00363-BLK1)											Prepared & Analyzed: 02/10/2020
1,1-Biphenyl	ND	41.6	ug/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	83.0	"								
1,2,4-Trichlorobenzene	ND	41.6	"								
1,2-Dichlorobenzene	ND	41.6	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	41.6	"								
1,3-Dichlorobenzene	ND	41.6	"								
1,4-Dichlorobenzene	ND	41.6	"								
2,3,4,6-Tetrachlorophenol	ND	83.0	"								
2,4,5-Trichlorophenol	ND	41.6	"								
2,4,6-Trichlorophenol	ND	41.6	"								
2,4-Dichlorophenol	ND	41.6	"								
2,4-Dimethylphenol	ND	41.6	"								
2,4-Dinitrophenol	ND	83.0	"								
2,4-Dinitrotoluene	ND	41.6	"								
2,6-Dinitrotoluene	ND	41.6	"								
2-Chloronaphthalene	ND	41.6	"								
2-Chlorophenol	ND	41.6	"								
2-Methylnaphthalene	ND	41.6	"								
2-Methylphenol	ND	41.6	"								
2-Nitroaniline	ND	83.0	"								
2-Nitrophenol	ND	41.6	"								
3- & 4-Methylphenols	ND	41.6	"								
3,3-Dichlorobenzidine	ND	41.6	"								
3-Nitroaniline	ND	83.0	"								
4,6-Dinitro-2-methylphenol	ND	83.0	"								
4-Bromophenyl phenyl ether	ND	41.6	"								
4-Chloro-3-methylphenol	ND	41.6	"								
4-Chloroaniline	ND	41.6	"								
4-Chlorophenyl phenyl ether	ND	41.6	"								
4-Nitroaniline	ND	83.0	"								
4-Nitrophenol	ND	83.0	"								
Acenaphthene	ND	41.6	"								
Acenaphthylene	ND	41.6	"								
Acetophenone	ND	41.6	"								
Aniline	ND	166	"								
Anthracene	ND	41.6	"								
Atrazine	ND	41.6	"								
Benzaldehyde	ND	41.6	"								
Benzidine	ND	166	"								
Benzo(a)anthracene	ND	41.6	"								
Benzo(a)pyrene	ND	41.6	"								
Benzo(b)fluoranthene	ND	41.6	"								
Benzo(g,h,i)perylene	ND	41.6	"								
Benzo(k)fluoranthene	ND	41.6	"								
Benzoic acid	ND	41.6	"								
Benzyl alcohol	ND	41.6	"								
Benzyl butyl phthalate	ND	41.6	"								
Bis(2-chloroethoxy)methane	ND	41.6	"								
Bis(2-chloroethyl)ether	ND	41.6	"								
Bis(2-chloroisopropyl)ether	ND	41.6	"								
Bis(2-ethylhexyl)phthalate	ND	41.6	"								

Semivolatile 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 BB00363 - EPA 3550C											
Blank (BB00363-BLK1)											
Prepared & Analyzed: 02/10/2020											
Caprolactam	ND	83.0	ug/kg wet								
Carbazole	ND	41.6	"								
Chrysene	ND	41.6	"								
Dibenzo(a,h)anthracene	ND	41.6	"								
Dibenzofuran	ND	41.6	"								
Diethyl phthalate	ND	41.6	"								
Dimethyl phthalate	ND	41.6	"								
Di-n-butyl phthalate	ND	41.6	"								
Di-n-octyl phthalate	ND	41.6	"								
Fluoranthene	ND	41.6	"								
Fluorene	ND	41.6	"								
Hexachlorobenzene	ND	41.6	"								
Hexachlorobutadiene	ND	41.6	"								
Hexachlorocyclopentadiene	ND	41.6	"								
Hexachloroethane	ND	41.6	"								
Indeno(1,2,3-cd)pyrene	ND	41.6	"								
Isophorone	ND	41.6	"								
Naphthalene	ND	41.6	"								
Nitrobenzene	ND	41.6	"								
N-Nitrosodimethylamine	ND	41.6	"								
N-nitroso-di-n-propylamine	ND	41.6	"								
N-Nitrosodiphenylamine	ND	41.6	"								
Pentachlorophenol	ND	41.6	"								
Phenanthrene	ND	41.6	"								
Phenol	ND	41.6	"								
Pyrene	ND	41.6	"								
Surrogate: SURR: 2-Fluorophenol	*946*		"	*1660*		*57.0*	*20-108*				
Surrogate: SURR: Phenol-d5	*976*		"	*1660*		*58.8*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*585*		"	*831*		*70.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*620*		"	*831*		*74.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1610*		"	*1660*		*97.2*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*689*		"	*831*		*82.9*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BB00363 - EPA 3550C

LCS (BB00363-BS1) Prepared & Analyzed: 02/10/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	548	41.6	ug/kg wet	831		66.0	22-103				
1,2,4,5-Tetrachlorobenzene	650	83.0	"	839		77.5	10-144				
1,2,4-Trichlorobenzene	587	41.6	"	831		70.7	23-130				
1,2-Dichlorobenzene	504	41.6	"	831		60.7	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	498	41.6	"	831		60.0	10-140				
1,3-Dichlorobenzene	478	41.6	"	831		57.5	32-113				
1,4-Dichlorobenzene	508	41.6	"	831		61.2	28-111				
2,3,4,6-Tetrachlorophenol	691	83.0	"	831		83.2	30-130				
2,4,5-Trichlorophenol	557	41.6	"	831		67.0	14-138				
2,4,6-Trichlorophenol	651	41.6	"	831		78.4	27-122				
2,4-Dichlorophenol	601	41.6	"	831		72.3	23-133				
2,4-Dimethylphenol	480	41.6	"	831		57.8	15-131				
2,4-Dinitrophenol	635	83.0	"	831		76.4	10-149				
2,4-Dinitrotoluene	656	41.6	"	831		79.0	30-123				
2,6-Dinitrotoluene	622	41.6	"	831		74.9	30-125				
2-Chloronaphthalene	540	41.6	"	831		65.0	22-115				
2-Chlorophenol	480	41.6	"	831		57.8	25-121				
2-Methylnaphthalene	618	41.6	"	831		74.4	16-127				
2-Methylphenol	425	41.6	"	831		51.2	10-146				
2-Nitroaniline	564	83.0	"	831		67.9	24-126				
2-Nitrophenol	543	41.6	"	831		65.3	17-129				
3- & 4-Methylphenols	376	41.6	"	831		45.3	20-109				
3,3-Dichlorobenzidine	540	41.6	"	831		65.0	10-147				
3-Nitroaniline	481	83.0	"	831		57.9	23-123				
4,6-Dinitro-2-methylphenol	701	83.0	"	831		84.4	10-149				
4-Bromophenyl phenyl ether	610	41.6	"	831		73.4	30-138				
4-Chloro-3-methylphenol	609	41.6	"	831		73.3	16-138				
4-Chloroaniline	382	41.6	"	831		46.0	10-117				
4-Chlorophenyl phenyl ether	630	41.6	"	831		75.9	18-132				
4-Nitroaniline	565	83.0	"	831		68.1	14-125				
4-Nitrophenol	575	83.0	"	831		69.2	10-136				
Acenaphthene	591	41.6	"	831		71.1	17-124				
Acenaphthylene	546	41.6	"	831		65.7	16-124				
Acetophenone	490	41.6	"	831		59.0	28-105				
Aniline	326	166	"	831		39.2	10-111				
Anthracene	588	41.6	"	831		70.8	24-124				
Atrazine	548	41.6	"	831		66.0	22-120				
Benzaldehyde	550	41.6	"	831		66.2	21-100				
Benzo(a)anthracene	572	41.6	"	831		68.9	25-134				
Benzo(a)pyrene	636	41.6	"	831		76.5	29-144				
Benzo(b)fluoranthene	681	41.6	"	831		82.0	20-151				
Benzo(g,h,i)perylene	648	41.6	"	831		78.0	10-153				
Benzo(k)fluoranthene	602	41.6	"	831		72.4	10-148				
Benzoic acid	204	41.6	"	831		24.6	10-116				
Benzyl alcohol	536	41.6	"	831		64.5	17-128				
Benzyl butyl phthalate	465	41.6	"	831		56.0	10-132				
Bis(2-chloroethoxy)methane	494	41.6	"	831		59.5	10-129				
Bis(2-chloroethyl)ether	443	41.6	"	831		53.4	14-125				
Bis(2-chloroisopropyl)ether	588	41.6	"	831		70.8	14-122				
Bis(2-ethylhexyl)phthalate	485	41.6	"	831		58.4	10-141				
Caprolactam	526	83.0	"	831		63.3	10-123				

Semivolatile 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 BB00363 - EPA 3550C											
LCS (BB00363-BS1)								Prepared & Analyzed: 02/10/2020			
Carbazole	555	41.6	ug/kg wet	831		66.8	31-120				
Chrysene	579	41.6	"	831		69.7	24-116				
Dibenzo(a,h)anthracene	822	41.6	"	831		99.0	17-147				
Dibenzofuran	611	41.6	"	831		73.5	23-123				
Diethyl phthalate	592	41.6	"	831		71.2	23-122				
Dimethyl phthalate	583	41.6	"	831		70.2	28-127				
Di-n-butyl phthalate	521	41.6	"	831		62.7	19-123				
Di-n-octyl phthalate	559	41.6	"	831		67.4	10-132				
Fluoranthene	657	41.6	"	831		79.1	36-125				
Fluorene	609	41.6	"	831		73.3	16-130				
Hexachlorobenzene	530	41.6	"	831		63.8	10-129				
Hexachlorobutadiene	673	41.6	"	831		81.1	22-153				
Hexachlorocyclopentadiene	282	41.6	"	831		34.0	10-134				
Hexachloroethane	487	41.6	"	831		58.7	20-112				
Indeno(1,2,3-cd)pyrene	728	41.6	"	831		87.7	10-155				
Isophorone	567	41.6	"	831		68.3	14-131				
Naphthalene	557	41.6	"	831		67.0	20-121				
Nitrobenzene	529	41.6	"	831		63.6	20-121				
N-Nitrosodimethylamine	416	41.6	"	831		50.0	10-124				
N-nitroso-di-n-propylamine	512	41.6	"	831		61.6	21-119				
N-Nitrosodiphenylamine	644	41.6	"	831		77.6	10-163				
Pentachlorophenol	592	41.6	"	831		71.2	10-143				
Phenanthrene	601	41.6	"	831		72.3	24-123				
Phenol	478	41.6	"	831		57.6	15-123				
Pyrene	517	41.6	"	831		62.3	24-132				
Surrogate: SURR: 2-Fluorophenol	*835*		"	*1660*		*50.3*	*20-108*				
Surrogate: SURR: Phenol-d5	*898*		"	*1660*		*54.1*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*515*		"	*831*		*62.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*546*		"	*831*		*65.7*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1430*		"	*1660*		*86.2*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*589*		"	*831*		*70.9*	*24-116*				

Semivolatile 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 BB00363 - EPA 3550C											
Matrix Spike (BB00363-MS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared: 02/10/2020 Analyzed: 02/11/2020			
1,1-Biphenyl	549	93.5	ug/kg dry	934	ND	58.7	24-112				
1,2,4,5-Tetrachlorobenzene	651	187	"	944	ND	69.0	18-152				
1,2,4-Trichlorobenzene	631	93.5	"	934	ND	67.5	15-139				
1,2-Dichlorobenzene	490	93.5	"	934	ND	52.5	29-106				
1,2-Diphenylhydrazine (as Azobenzene)	481	93.5	"	934	ND	51.4	10-135				
1,3-Dichlorobenzene	477	93.5	"	934	ND	51.0	34-100				
1,4-Dichlorobenzene	523	93.5	"	934	ND	56.0	26-107				
2,3,4,6-Tetrachlorophenol	751	187	"	934	ND	80.4	30-130				
2,4,5-Trichlorophenol	562	93.5	"	934	ND	60.2	10-148				
2,4,6-Trichlorophenol	691	93.5	"	934	ND	74.0	12-138				
2,4-Dichlorophenol	645	93.5	"	934	ND	69.0	16-144				
2,4-Dimethylphenol	467	93.5	"	934	ND	50.0	11-133				
2,4-Dinitrophenol	ND	187	"	934	ND		10-132	Low Bias			
2,4-Dinitrotoluene	575	93.5	"	934	ND	61.5	42-113				
2,6-Dinitrotoluene	546	93.5	"	934	ND	58.5	36-124				
2-Chloronaphthalene	567	93.5	"	934	ND	60.7	31-116				
2-Chlorophenol	521	93.5	"	934	ND	55.8	28-114				
2-Methylnaphthalene	680	93.5	"	934	ND	72.8	10-143				
2-Methylphenol	497	93.5	"	934	ND	53.2	10-160				
2-Nitroaniline	617	187	"	934	ND	66.0	33-122				
2-Nitrophenol	448	93.5	"	934	ND	47.9	12-127				
3- & 4-Methylphenols	451	93.5	"	934	ND	48.3	16-115				
3,3-Dichlorobenzidine	404	93.5	"	934	ND	43.2	10-134				
3-Nitroaniline	617	187	"	934	ND	66.1	24-128				
4,6-Dinitro-2-methylphenol	ND	187	"	934	ND		10-149	Low Bias			
4-Bromophenyl phenyl ether	626	93.5	"	934	ND	67.0	32-148				
4-Chloro-3-methylphenol	623	93.5	"	934	ND	66.6	14-138				
4-Chloroaniline	518	93.5	"	934	ND	55.4	10-124				
4-Chlorophenyl phenyl ether	646	93.5	"	934	ND	69.1	10-153				
4-Nitroaniline	694	187	"	934	ND	74.2	10-151				
4-Nitrophenol	638	187	"	934	ND	68.3	10-141				
Acenaphthene	603	93.5	"	934	ND	64.6	13-133				
Acenaphthylene	863	93.5	"	934	346	55.4	25-125				
Acetophenone	513	93.5	"	934	ND	54.9	25-105				
Aniline	395	374	"	934	ND	42.2	10-112				
Anthracene	765	93.5	"	934	206	59.8	27-128				
Atrazine	519	93.5	"	934	ND	55.5	10-139				
Benzaldehyde	584	93.5	"	934	ND	62.5	24-96				
Benzo(a)anthracene	1130	93.5	"	934	631	53.3	20-147				
Benzo(a)pyrene	1400	93.5	"	934	799	64.8	18-153				
Benzo(b)fluoranthene	1430	93.5	"	934	765	70.8	10-163				
Benzo(g,h,i)perylene	1180	93.5	"	934	698	52.0	10-157				
Benzo(k)fluoranthene	1250	93.5	"	934	650	63.7	10-157				
Benzoic acid	127	93.5	"	934	ND	13.6	10-130				
Benzyl alcohol	522	93.5	"	934	ND	55.9	20-122				
Benzyl butyl phthalate	467	93.5	"	934	ND	50.0	10-129				
Bis(2-chloroethoxy)methane	528	93.5	"	934	ND	56.5	12-128				
Bis(2-chloroethyl)ether	505	93.5	"	934	ND	54.1	18-113				
Bis(2-chloroisopropyl)ether	604	93.5	"	934	ND	64.6	10-130				
Bis(2-ethylhexyl)phthalate	484	93.5	"	934	ND	51.8	10-138				
Caprolactam	590	187	"	934	ND	63.1	10-100				

Semivolatile 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 BB00363 - EPA 3550C											
Matrix Spike (BB00363-MS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared: 02/10/2020 Analyzed: 02/11/2020			
Carbazole	688	93.5	ug/kg dry	934	135	59.1	24-139				
Chrysene	1370	93.5	"	934	768	64.4	18-133				
Dibenzo(a,h)anthracene	1130	93.5	"	934	281	90.8	10-146				
Dibenzofuran	639	93.5	"	934	ND	68.4	26-134				
Diethyl phthalate	582	93.5	"	934	ND	62.2	30-119				
Dimethyl phthalate	583	93.5	"	934	ND	62.4	34-120				
Di-n-butyl phthalate	517	93.5	"	934	ND	55.4	20-128				
Di-n-octyl phthalate	573	93.5	"	934	ND	61.4	10-133				
Fluoranthene	2130	93.5	"	934	1610	56.5	10-155				
Fluorene	684	93.5	"	934	56.8	67.1	12-150				
Hexachlorobenzene	541	93.5	"	934	ND	57.9	16-142				
Hexachlorobutadiene	718	93.5	"	934	ND	76.8	11-150				
Hexachlorocyclopentadiene	ND	93.5	"	934	ND		10-115	Low Bias			
Hexachloroethane	364	93.5	"	934	ND	39.0	14-106				
Indeno(1,2,3-cd)pyrene	1180	93.5	"	934	617	60.3	10-155				
Isophorone	605	93.5	"	934	ND	64.8	14-127				
Naphthalene	592	93.5	"	934	ND	63.4	15-132				
Nitrobenzene	596	93.5	"	934	ND	63.8	18-125				
N-Nitrosodimethylamine	449	93.5	"	934	ND	48.1	10-123				
N-nitroso-di-n-propylamine	569	93.5	"	934	ND	60.9	23-115				
N-Nitrosodiphenylamine	647	93.5	"	934	ND	69.2	16-166				
Pentachlorophenol	603	93.5	"	934	ND	64.6	10-160				
Phenanthrene	1340	93.5	"	934	840	53.3	10-151				
Phenol	548	93.5	"	934	ND	58.6	11-124				
Pyrene	1580	93.5	"	934	1120	48.9	13-148				
Surrogate: SURR: 2-Fluorophenol	*823*		*"*	*1870*		*44.0*	*20-108*				
Surrogate: SURR: Phenol-d5	*878*		*"*	*1870*		*47.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*538*		*"*	*934*		*57.6*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*528*		*"*	*934*		*56.5*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1460*		*"*	*1870*		*78.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*603*		*"*	*934*		*64.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Batch BB00363 - EPA 3550C

Matrix Spike Dup (BB00363-MSD1) *Source sample: 20B0093-06 (SB-4 (0-2)) Prepared: 02/10/2020 Analyzed: 02/11/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	650	93.5	ug/kg dry	934	ND	69.5	24-112		16.8	30	
1,2,4,5-Tetrachlorobenzene	760	187	"	944	ND	80.6	18-152		15.5	30	
1,2,4-Trichlorobenzene	746	93.5	"	934	ND	79.8	15-139		16.7	30	
1,2-Dichlorobenzene	582	93.5	"	934	ND	62.3	29-106		17.1	30	
1,2-Diphenylhydrazine (as Azobenzene)	592	93.5	"	934	ND	63.4	10-135		20.8	30	
1,3-Dichlorobenzene	566	93.5	"	934	ND	60.6	34-100		17.1	30	
1,4-Dichlorobenzene	585	93.5	"	934	ND	62.6	26-107		11.2	30	
2,3,4,6-Tetrachlorophenol	957	187	"	934	ND	102	30-130		24.1	30	
2,4,5-Trichlorophenol	717	93.5	"	934	ND	76.7	10-148		24.2	30	
2,4,6-Trichlorophenol	822	93.5	"	934	ND	88.0	12-138		17.3	30	
2,4-Dichlorophenol	784	93.5	"	934	ND	83.9	16-144		19.5	30	
2,4-Dimethylphenol	533	93.5	"	934	ND	57.0	11-133		13.2	30	
2,4-Dinitrophenol	ND	187	"	934	ND		10-132	Low Bias		30	
2,4-Dinitrotoluene	670	93.5	"	934	ND	71.7	42-113		15.3	30	
2,6-Dinitrotoluene	686	93.5	"	934	ND	73.4	36-124		22.7	30	
2-Chloronaphthalene	646	93.5	"	934	ND	69.1	31-116		12.9	30	
2-Chlorophenol	613	93.5	"	934	ND	65.6	28-114		16.2	30	
2-Methylnaphthalene	754	93.5	"	934	ND	80.7	10-143		10.3	30	
2-Methylphenol	578	93.5	"	934	ND	61.8	10-160		15.0	30	
2-Nitroaniline	750	187	"	934	ND	80.2	33-122		19.5	30	
2-Nitrophenol	550	93.5	"	934	ND	58.9	12-127		20.5	30	
3- & 4-Methylphenols	518	93.5	"	934	ND	55.4	16-115		13.7	30	
3,3-Dichlorobenzidine	448	93.5	"	934	ND	47.9	10-134		10.4	30	
3-Nitroaniline	731	187	"	934	ND	78.2	24-128		16.9	30	
4,6-Dinitro-2-methylphenol	ND	187	"	934	ND		10-149	Low Bias		30	
4-Bromophenyl phenyl ether	798	93.5	"	934	ND	85.4	32-148		24.0	30	
4-Chloro-3-methylphenol	747	93.5	"	934	ND	79.9	14-138		18.1	30	
4-Chloroaniline	571	93.5	"	934	ND	61.1	10-124		9.75	30	
4-Chlorophenyl phenyl ether	761	93.5	"	934	ND	81.4	10-153		16.4	30	
4-Nitroaniline	804	187	"	934	ND	86.0	10-151		14.7	30	
4-Nitrophenol	762	187	"	934	ND	81.5	10-141		17.6	30	
Acenaphthene	724	93.5	"	934	ND	77.4	13-133		18.1	30	
Acenaphthylene	922	93.5	"	934	346	61.6	25-125		6.53	30	
Acetophenone	631	93.5	"	934	ND	67.5	25-105		20.7	30	
Aniline	484	374	"	934	ND	51.8	10-112		20.4	30	
Anthracene	939	93.5	"	934	206	78.4	27-128		20.4	30	
Atrazine	708	93.5	"	934	ND	75.8	10-139		30.8	30	Non-dir.
Benzaldehyde	703	93.5	"	934	ND	75.2	24-96		18.5	30	
Benzo(a)anthracene	1260	93.5	"	934	631	67.6	20-147		11.2	30	
Benzo(a)pyrene	1520	93.5	"	934	799	76.9	18-153		7.77	30	
Benzo(b)fluoranthene	1550	93.5	"	934	765	83.9	10-163		8.19	30	
Benzo(g,h,i)perylene	1410	93.5	"	934	698	75.7	10-157		17.2	30	
Benzo(k)fluoranthene	1270	93.5	"	934	650	66.6	10-157		2.14	30	
Benzoic acid	88.9	93.5	"	934	ND	9.52	10-130	Low Bias	35.3	30	Non-dir.
Benzyl alcohol	706	93.5	"	934	ND	75.6	20-122		29.9	30	
Benzyl butyl phthalate	567	93.5	"	934	ND	60.6	10-129		19.2	30	
Bis(2-chloroethoxy)methane	612	93.5	"	934	ND	65.5	12-128		14.8	30	
Bis(2-chloroethyl)ether	582	93.5	"	934	ND	62.3	18-113		14.2	30	
Bis(2-chloroisopropyl)ether	768	93.5	"	934	ND	82.2	10-130		24.0	30	
Bis(2-ethylhexyl)phthalate	589	93.5	"	934	ND	63.0	10-138		19.5	30	
Caprolactam	675	187	"	934	ND	72.2	10-100		13.5	30	

Semivolatile 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 BB00363 - EPA 3550C											
Matrix Spike Dup (BB00363-MSD1)	*Source sample: 20B0093-06 (SB-4 (0-2))								Prepared: 02/10/2020 Analyzed: 02/11/2020		
Carbazole	773	93.5	ug/kg dry	934	135	68.2	24-139		11.7	30	
Chrysene	1400	93.5	"	934	768	67.9	18-133		2.37	30	
Dibenzo(a,h)anthracene	1360	93.5	"	934	281	115	10-146		18.4	30	
Dibenzofuran	773	93.5	"	934	ND	82.7	26-134		19.0	30	
Diethyl phthalate	723	93.5	"	934	ND	77.4	30-119		21.7	30	
Dimethyl phthalate	691	93.5	"	934	ND	73.9	34-120		16.9	30	
Di-n-butyl phthalate	632	93.5	"	934	ND	67.6	20-128		19.9	30	
Di-n-octyl phthalate	703	93.5	"	934	ND	75.3	10-133		20.4	30	
Fluoranthene	2130	93.5	"	934	1610	55.7	10-155		0.351	30	
Fluorene	824	93.5	"	934	56.8	82.2	12-150		18.6	30	
Hexachlorobenzene	677	93.5	"	934	ND	72.5	16-142		22.3	30	
Hexachlorobutadiene	792	93.5	"	934	ND	84.8	11-150		9.90	30	
Hexachlorocyclopentadiene	ND	93.5	"	934	ND		10-115	Low Bias		30	
Hexachloroethane	455	93.5	"	934	ND	48.7	14-106		22.3	30	
Indeno(1,2,3-cd)pyrene	1380	93.5	"	934	617	82.1	10-155		15.9	30	
Isophorone	712	93.5	"	934	ND	76.2	14-127		16.1	30	
Naphthalene	720	93.5	"	934	ND	77.0	15-132		19.5	30	
Nitrobenzene	679	93.5	"	934	ND	72.7	18-125		13.0	30	
N-Nitrosodimethylamine	498	93.5	"	934	ND	53.3	10-123		10.3	30	
N-nitroso-di-n-propylamine	706	93.5	"	934	ND	75.6	23-115		21.6	30	
N-Nitrosodiphenylamine	829	93.5	"	934	ND	88.7	16-166		24.7	30	
Pentachlorophenol	689	93.5	"	934	ND	73.8	10-160		13.3	30	
Phenanthrene	1420	93.5	"	934	840	62.1	10-151		6.02	30	
Phenol	656	93.5	"	934	ND	70.2	11-124		18.0	30	
Pyrene	1640	93.5	"	934	1120	56.0	13-148		4.09	30	
Surrogate: SURR: 2-Fluorophenol	*1040*		"	*1870*		*55.8*	*20-108*				
Surrogate: SURR: Phenol-d5	*1150*		"	*1870*		*61.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*629*		"	*934*		*67.3*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*635*		"	*934*		*67.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*2050*		"	*1870*		*110*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*760*		"	*934*		*81.4*	*24-116*				

Organochlorine Pesticides by GC/ECD - 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 BB00283 - EPA 3550C											
Blank (BB00283-BLK1)									Prepared: 02/07/2020 Analyzed: 02/10/2020		
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*84.5*		*"*	*66.4*		*127*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*71.9*		*"*	*66.4*		*108*	*30-150*				
LCS (BB00283-BS1)									Prepared: 02/07/2020 Analyzed: 02/10/2020		
4,4'-DDD	30.8	1.64	ug/kg wet	33.2		92.7	40-140				
4,4'-DDE	33.0	1.64	"	33.2		99.4	40-140				
4,4'-DDT	32.8	1.64	"	33.2		98.6	40-140				
Aldrin	31.5	1.64	"	33.2		94.9	40-140				
alpha-BHC	31.4	1.64	"	33.2		94.4	40-140				
alpha-Chlordane	32.4	1.64	"	33.2		97.4	40-140				
beta-BHC	33.8	1.64	"	33.2		102	40-140				
delta-BHC	31.3	1.64	"	33.2		94.3	40-140				
Dieldrin	31.8	1.64	"	33.2		95.8	40-140				
Endosulfan I	33.1	1.64	"	33.2		99.6	40-140				
Endosulfan II	31.2	1.64	"	33.2		93.8	40-140				
Endosulfan sulfate	30.0	1.64	"	33.2		90.4	40-140				
Endrin	33.4	1.64	"	33.2		101	40-140				
Endrin aldehyde	28.9	1.64	"	33.2		86.9	40-140				
Endrin ketone	32.2	1.64	"	33.2		96.9	40-140				
gamma-BHC (Lindane)	30.7	1.64	"	33.2		92.4	40-140				
gamma-Chlordane	31.2	1.64	"	33.2		93.9	40-140				
Heptachlor	34.6	1.64	"	33.2		104	40-140				
Heptachlor epoxide	32.9	1.64	"	33.2		99.0	40-140				
Methoxychlor	32.8	8.22	"	33.2		98.8	40-140				
Surrogate: Decachlorobiphenyl	*70.3*		*"*	*66.4*		*106*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*64.4*		*"*	*66.4*		*97.0*	*30-150*				

Organochlorine Pesticides by GC/ECD - 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 BB00283 - EPA 3550C											
Matrix Spike (BB00283-MS1)	*Source sample: 20B0093-01 (SB-1 (0-2))							Prepared: 02/07/2020 Analyzed: 02/13/2020			
4,4'-DDD	31.9	2.03	ug/kg dry	41.0	ND	77.7	30-150				
4,4'-DDE	66.2	2.03	"	41.0	46.1	49.0	30-150				
4,4'-DDT	68.2	2.03	"	41.0	33.2	85.3	30-150				
Aldrin	30.0	2.03	"	41.0	ND	73.3	30-150				
alpha-BHC	29.3	2.03	"	41.0	ND	71.5	30-150				
alpha-Chlordane	34.7	2.03	"	41.0	8.62	63.7	30-150				
beta-BHC	34.1	2.03	"	41.0	ND	83.0	30-150				
delta-BHC	34.8	2.03	"	41.0	ND	84.9	30-150				
Dieldrin	33.8	2.03	"	41.0	ND	82.4	30-150				
Endosulfan I	40.4	2.03	"	41.0	ND	98.5	30-150				
Endosulfan II	28.5	2.03	"	41.0	ND	69.5	30-150				
Endosulfan sulfate	27.5	2.03	"	41.0	ND	67.0	30-150				
Endrin	33.6	2.03	"	41.0	ND	81.9	30-150				
Endrin aldehyde	21.4	2.03	"	41.0	ND	52.2	30-150				
Endrin ketone	34.7	2.03	"	41.0	ND	84.5	30-150				
gamma-BHC (Lindane)	31.2	2.03	"	41.0	ND	76.1	30-150				
gamma-Chlordane	31.9	2.03	"	41.0	6.40	62.3	30-150				
Heptachlor	31.2	2.03	"	41.0	ND	76.1	30-150				
Heptachlor epoxide	30.3	2.03	"	41.0	ND	73.8	30-150				
Methoxychlor	30.3	10.1	"	41.0	ND	73.9	30-150				
Surrogate: Decachlorobiphenyl	*61.0*		*"*	*82.0*		*74.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*38.5*		*"*	*82.0*		*47.0*	*30-150*				
Matrix Spike Dup (BB00283-MSD1)	*Source sample: 20B0093-01 (SB-1 (0-2))							Prepared: 02/07/2020 Analyzed: 02/13/2020			
4,4'-DDD	33.2	2.03	ug/kg dry	41.0	ND	80.8	30-150		3.91	30	
4,4'-DDE	65.4	2.03	"	41.0	46.1	47.2	30-150		1.15	30	
4,4'-DDT	69.4	2.03	"	41.0	33.2	88.3	30-150		1.79	30	
Aldrin	27.6	2.03	"	41.0	ND	67.2	30-150		8.58	30	
alpha-BHC	25.5	2.03	"	41.0	ND	62.1	30-150		14.1	30	
alpha-Chlordane	38.6	2.03	"	41.0	8.62	73.0	30-150		10.4	30	
beta-BHC	29.6	2.03	"	41.0	ND	72.2	30-150		14.0	30	
delta-BHC	27.4	2.03	"	41.0	ND	66.9	30-150		23.8	30	
Dieldrin	31.6	2.03	"	41.0	ND	77.1	30-150		6.64	30	
Endosulfan I	37.1	2.03	"	41.0	ND	90.5	30-150		8.51	30	
Endosulfan II	26.3	2.03	"	41.0	ND	64.2	30-150		7.91	30	
Endosulfan sulfate	22.6	2.03	"	41.0	ND	55.0	30-150		19.6	30	
Endrin	29.7	2.03	"	41.0	ND	72.4	30-150		12.3	30	
Endrin aldehyde	17.5	2.03	"	41.0	ND	42.7	30-150		20.1	30	
Endrin ketone	33.5	2.03	"	41.0	ND	81.7	30-150		3.43	30	
gamma-BHC (Lindane)	28.1	2.03	"	41.0	ND	68.6	30-150		10.3	30	
gamma-Chlordane	36.5	2.03	"	41.0	6.40	73.4	30-150		13.3	30	
Heptachlor	27.1	2.03	"	41.0	ND	66.1	30-150		14.2	30	
Heptachlor epoxide	28.8	2.03	"	41.0	ND	70.3	30-150		4.89	30	
Methoxychlor	26.7	10.1	"	41.0	ND	65.0	30-150		12.8	30	
Surrogate: Decachlorobiphenyl	*55.0*		*"*	*82.0*		*67.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*35.3*		*"*	*82.0*		*43.0*	*30-150*				

Organochlorine Pesticides by GC/ECD - 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 BB00362 - EPA 3550C											
Blank (BB00362-BLK1)											Prepared: 02/10/2020 Analyzed: 02/11/2020
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*53.9*		*"*	*66.4*		*81.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*54.1*		*"*	*66.4*		*81.4*	*30-150*				
LCS (BB00362-BS1)											Prepared: 02/10/2020 Analyzed: 02/11/2020
4,4'-DDD	21.7	1.64	ug/kg wet	33.2		65.3	40-140				
4,4'-DDE	25.6	1.64	"	33.2		77.1	40-140				
4,4'-DDT	22.1	1.64	"	33.2		66.4	40-140				
Aldrin	26.9	1.64	"	33.2		80.9	40-140				
alpha-BHC	25.4	1.64	"	33.2		76.6	40-140				
alpha-Chlordane	24.8	1.64	"	33.2		74.6	40-140				
beta-BHC	24.1	1.64	"	33.2		72.6	40-140				
delta-BHC	22.5	1.64	"	33.2		67.6	40-140				
Dieldrin	27.0	1.64	"	33.2		81.2	40-140				
Endosulfan I	23.0	1.64	"	33.2		69.1	40-140				
Endosulfan II	21.9	1.64	"	33.2		66.0	40-140				
Endosulfan sulfate	21.6	1.64	"	33.2		65.0	40-140				
Endrin	25.2	1.64	"	33.2		75.7	40-140				
Endrin aldehyde	19.7	1.64	"	33.2		59.4	40-140				
Endrin ketone	26.0	1.64	"	33.2		78.3	40-140				
gamma-BHC (Lindane)	26.7	1.64	"	33.2		80.3	40-140				
gamma-Chlordane	22.7	1.64	"	33.2		68.3	40-140				
Heptachlor	24.7	1.64	"	33.2		74.5	40-140				
Heptachlor epoxide	24.6	1.64	"	33.2		74.0	40-140				
Methoxychlor	25.1	8.22	"	33.2		75.6	40-140				
Surrogate: Decachlorobiphenyl	*49.6*		*"*	*66.4*		*74.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*49.7*		*"*	*66.4*		*74.9*	*30-150*				

Organochlorine Pesticides by GC/ECD - 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 BB00362 - EPA 3550C											
Matrix Spike (BB00362-MS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared: 02/10/2020 Analyzed: 02/11/2020			
4,4'-DDD	25.7	1.85	ug/kg dry	37.4	ND	68.7	30-150				
4,4'-DDE	27.9	1.85	"	37.4	ND	74.8	30-150				
4,4'-DDT	32.5	1.85	"	37.4	ND	86.9	30-150				
Aldrin	28.8	1.85	"	37.4	ND	77.1	30-150				
alpha-BHC	27.1	1.85	"	37.4	ND	72.6	30-150				
alpha-Chlordane	28.0	1.85	"	37.4	ND	74.9	30-150				
beta-BHC	29.6	1.85	"	37.4	ND	79.2	30-150				
delta-BHC	28.3	1.85	"	37.4	ND	75.8	30-150				
Dieldrin	29.8	1.85	"	37.4	ND	79.7	30-150				
Endosulfan I	29.4	1.85	"	37.4	ND	78.6	30-150				
Endosulfan II	25.4	1.85	"	37.4	ND	67.9	30-150				
Endosulfan sulfate	25.8	1.85	"	37.4	ND	68.9	30-150				
Endrin	30.4	1.85	"	37.4	ND	81.4	30-150				
Endrin aldehyde	20.1	1.85	"	37.4	ND	53.8	30-150				
Endrin ketone	29.9	1.85	"	37.4	ND	80.1	30-150				
gamma-BHC (Lindane)	29.2	1.85	"	37.4	ND	78.2	30-150				
gamma-Chlordane	26.4	1.85	"	37.4	ND	70.6	30-150				
Heptachlor	26.7	1.85	"	37.4	ND	71.4	30-150				
Heptachlor epoxide	26.6	1.85	"	37.4	ND	71.1	30-150				
Methoxychlor	28.4	9.25	"	37.4	ND	76.1	30-150				
Surrogate: Decachlorobiphenyl	*58.2*		*"*	*74.7*		*77.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*39.5*		*"*	*74.7*		*52.9*	*30-150*				
Matrix Spike Dup (BB00362-MSD1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared: 02/10/2020 Analyzed: 02/11/2020			
4,4'-DDD	19.2	1.85	ug/kg dry	37.4	ND	51.5	30-150		28.6	30	
4,4'-DDE	21.2	1.85	"	37.4	ND	56.7	30-150		27.5	30	
4,4'-DDT	26.1	1.85	"	37.4	ND	69.9	30-150		21.7	30	
Aldrin	22.3	1.85	"	37.4	ND	59.7	30-150		25.3	30	
alpha-BHC	21.7	1.85	"	37.4	ND	58.1	30-150		22.2	30	
alpha-Chlordane	21.7	1.85	"	37.4	ND	58.2	30-150		25.1	30	
beta-BHC	25.6	1.85	"	37.4	ND	68.6	30-150		14.4	30	
delta-BHC	22.2	1.85	"	37.4	ND	59.3	30-150		24.5	30	
Dieldrin	22.9	1.85	"	37.4	ND	61.2	30-150		26.2	30	
Endosulfan I	21.8	1.85	"	37.4	ND	58.4	30-150		29.6	30	
Endosulfan II	19.7	1.85	"	37.4	ND	52.6	30-150		25.4	30	
Endosulfan sulfate	20.2	1.85	"	37.4	ND	54.1	30-150		24.1	30	
Endrin	29.4	1.85	"	37.4	ND	78.7	30-150		3.37	30	
Endrin aldehyde	16.2	1.85	"	37.4	ND	43.4	30-150		21.4	30	
Endrin ketone	23.1	1.85	"	37.4	ND	61.7	30-150		25.8	30	
gamma-BHC (Lindane)	23.8	1.85	"	37.4	ND	63.7	30-150		20.4	30	
gamma-Chlordane	20.4	1.85	"	37.4	ND	54.7	30-150		25.5	30	
Heptachlor	21.1	1.85	"	37.4	ND	56.5	30-150		23.4	30	
Heptachlor epoxide	20.7	1.85	"	37.4	ND	55.4	30-150		24.8	30	
Methoxychlor	21.8	9.25	"	37.4	ND	58.2	30-150		26.5	30	
Surrogate: Decachlorobiphenyl	*44.7*		*"*	*74.7*		*59.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*28.4*		*"*	*74.7*		*37.9*	*30-150*				

Organochlorine Pesticides by GC/ECD - 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 Y0A2002 - BA00785											
Performance Mix (Y0A2002-PEM1)								Prepared & Analyzed: 01/17/2020			
4,4'-DDD	12.6		ng/mL	0.00			0-200				
4,4'-DDE	5.62		"	0.00			0-200				
4,4'-DDT	290		"	200		145	0-200				
Endrin	113		"	100		113	0-200				
Endrin aldehyde	3.25		"	0.00			0-200				
Endrin ketone	5.72		"	0.00			0-200				
Batch Y0A2045 - BA00744											
Performance Mix (Y0A2045-PEM1)								Prepared & Analyzed: 01/20/2020			
4,4'-DDD	10.5		ng/mL	0.00			0-200				
4,4'-DDE	4.01		"	0.00			0-200				
4,4'-DDT	227		"	200		114	0-200				
Endrin	103		"	100		103	0-200				
Endrin aldehyde	3.12		"	0.00			0-200				
Endrin ketone	7.32		"	0.00			0-200				
Batch Y0B1124 - BB00154											
Performance Mix (Y0B1124-PEM1)								Prepared & Analyzed: 02/10/2020			
4,4'-DDD	12.4		ng/mL	0.00			0-200				
4,4'-DDE	1.50		"	0.00			0-200				
4,4'-DDT	234		"	200		117	0-200				
Endrin	116		"	100		116	0-200				
Endrin aldehyde	0.665		"	0.00			0-200				
Endrin ketone	6.04		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - 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 Y0B1201 - BB00154											
Performance Mix (Y0B1201-PEM1)							Prepared & Analyzed: 02/11/2020				
4,4'-DDD	12.9		ng/mL	0.00			0-200				
4,4'-DDE	1.55		"	0.00			0-200				
4,4'-DDT	135		"	200		67.6	0-200				
Endrin	70.2		"	100		70.2	0-200				
Endrin aldehyde	0.935		"	0.00			0-200				
Endrin ketone	7.13		"	0.00			0-200				
Batch Y0B1401 - BB00154											
Performance Mix (Y0B1401-PEM1)							Prepared & Analyzed: 02/13/2020				
4,4'-DDD	13.9		ng/mL	0.00			0-200				
4,4'-DDE	1.17		"	0.00			0-200				
4,4'-DDT	141		"	200		70.5	0-200				
Endrin	71.7		"	100		71.7	0-200				
Endrin aldehyde	0.633		"	0.00			0-200				
Endrin ketone	6.34		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - 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 BB00283 - EPA 3550C											
Blank (BB00283-BLK2)								Prepared & Analyzed: 02/07/2020			
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0641*		*"*	*0.0664*		*96.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0684*		*"*	*0.0664*		*103*	*30-140*				
LCS (BB00283-BS2)								Prepared & Analyzed: 02/07/2020			
Aroclor 1016	0.313	0.0166	mg/kg wet	0.332		94.1	40-130				
Aroclor 1260	0.317	0.0166	"	0.332		95.5	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0585*		*"*	*0.0664*		*88.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0561*		*"*	*0.0664*		*84.5*	*30-140*				
Matrix Spike (BB00283-MS2)	*Source sample: 20B0093-01 (SB-1 (0-2))							Prepared: 02/07/2020 Analyzed: 02/08/2020			
Aroclor 1016	0.206	0.0205	mg/kg dry	0.410	ND	50.2	40-140				
Aroclor 1260	0.298	0.0205	"	0.410	0.0448	61.7	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0636*		*"*	*0.0820*		*77.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0623*		*"*	*0.0820*		*76.0*	*30-140*				
Matrix Spike Dup (BB00283-MSD2)	*Source sample: 20B0093-01 (SB-1 (0-2))							Prepared: 02/07/2020 Analyzed: 02/08/2020			
Aroclor 1016	0.264	0.0205	mg/kg dry	0.410	ND	64.3	40-140		24.6	50	
Aroclor 1260	0.377	0.0205	"	0.410	0.0448	80.9	40-140		23.3	50	
Surrogate: Tetrachloro-m-xylene	*0.0611*		*"*	*0.0820*		*74.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0660*		*"*	*0.0820*		*80.5*	*30-140*				

Polychlorinated Biphenyls by GC/ECD - 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 BB00362 - EPA 3550C											
Blank (BB00362-BLK2)								Prepared & Analyzed: 02/10/2020			
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0608*		"	*0.0664*		*91.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0581*		"	*0.0664*		*87.5*	*30-140*				
LCS (BB00362-BS2)								Prepared & Analyzed: 02/10/2020			
Aroclor 1016	0.337	0.0166	mg/kg wet	0.332		101	40-130				
Aroclor 1260	0.336	0.0166	"	0.332		101	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0641*		"	*0.0664*		*96.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0638*		"	*0.0664*		*96.0*	*30-140*				
Matrix Spike (BB00362-MS2)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/10/2020			
Aroclor 1016	0.213	0.0187	mg/kg dry	0.374	ND	57.1	40-140				
Aroclor 1260	0.258	0.0187	"	0.374	ND	69.0	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0576*		"	*0.0747*		*77.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0572*		"	*0.0747*		*76.5*	*30-140*				
Matrix Spike Dup (BB00362-MSD2)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/10/2020			
Aroclor 1016	0.218	0.0187	mg/kg dry	0.374	ND	58.5	40-140		2.32	50	
Aroclor 1260	0.264	0.0187	"	0.374	ND	70.6	40-140		2.21	50	
Surrogate: Tetrachloro-m-xylene	*0.0602*		"	*0.0747*		*80.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0602*		"	*0.0747*		*80.5*	*30-140*				

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 BB00168 - EPA 3050B											
Blank (BB00168-BLK1)								Prepared & Analyzed: 02/05/2020			
Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	ND	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	ND	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								
Duplicate (BB00168-DUP1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/05/2020			
Aluminum	14400	5.62	mg/kg dry		14600				1.29	35	
Antimony	ND	2.81	"		ND					35	
Arsenic	6.16	1.69	"		4.67				27.6	35	
Barium	403	2.81	"		422				4.58	35	
Beryllium	ND	0.056	"		ND					35	
Cadmium	0.698	0.337	"		0.704				0.841	35	
Calcium	35100	5.62	"		32300				8.30	35	
Chromium	32.9	0.562	"		29.0				12.6	35	
Cobalt	11.4	0.450	"		19.0				49.6	35	Non-dir.
Copper	49.1	2.25	"		34.4				35.0	35	
Iron	20900	28.1	"		20100				4.16	35	
Lead	964	0.562	"		711				30.2	35	
Magnesium	14100	5.62	"		14200				0.465	35	
Manganese	482	0.562	"		806				50.4	35	Non-dir.
Nickel	27.0	1.12	"		23.9				12.4	35	
Potassium	2490	5.62	"		2500				0.345	35	
Selenium	ND	2.81	"		ND					35	
Silver	ND	0.562	"		ND					35	
Sodium	186	56.2	"		192				3.07	35	
Thallium	ND	2.81	"		ND					35	
Vanadium	44.7	1.12	"		40.4				10.2	35	
Zinc	271	2.81	"		280				3.38	35	

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 BB00168 - EPA 3050B											
Matrix Spike (BB00168-MS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/05/2020			
Aluminum	15900	5.62	mg/kg dry	225	14600	544	75-125	High Bias			
Antimony	5.28	2.81	"	28.1	ND	18.8	75-125	Low Bias			
Arsenic	229	1.69	"	225	4.67	99.8	75-125				
Barium	575	2.81	"	225	422	67.9	75-125	Low Bias			
Beryllium	0.642	0.056	"	5.62	ND	11.4	75-125	Low Bias			
Cadmium	6.22	0.337	"	5.62	0.704	98.0	75-125				
Calcium	42900	5.62	"	112	32300	NR	75-125	High Bias			
Chromium	51.0	0.562	"	22.5	29.0	97.6	75-125				
Cobalt	67.2	0.450	"	56.2	19.0	85.7	75-125				
Copper	69.2	2.25	"	28.1	34.4	124	75-125				
Iron	21100	28.1	"	112	20100	940	75-125	High Bias			
Lead	555	0.562	"	56.2	711	NR	75-125	Low Bias			
Magnesium	14300	5.62	"	112	14200	132	75-125	High Bias			
Manganese	601	0.562	"	56.2	806	NR	75-125	Low Bias			
Nickel	81.0	1.12	"	56.2	23.9	102	75-125				
Potassium	2650	5.62	"	112	2500	133	75-125	High Bias			
Selenium	193	2.81	"	225	ND	85.8	75-125				
Silver	3.95	0.562	"	5.62	ND	70.2	75-125	Low Bias			
Sodium	359	56.2	"	112	192	149	75-125	High Bias			
Thallium	220	2.81	"	225	ND	97.7	75-125				
Vanadium	93.3	1.12	"	56.2	40.4	94.1	75-125				
Zinc	338	2.81	"	56.2	280	102	75-125				
Post Spike (BB00168-PS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/05/2020			
Aluminum	129		ug/mL	2.00	130	NR	75-125	Low Bias			
Antimony	0.270		"	0.250	0.001	107	75-125				
Arsenic	2.10		"	2.00	0.041	103	75-125				
Barium	5.58		"	2.00	3.75	91.4	75-125				
Beryllium	0.010		"	0.0500	-0.042	20.1	75-125	Low Bias			
Cadmium	0.056		"	0.0500	0.006	99.6	75-125				
Calcium	307		"	1.00	287	NR	75-125	High Bias			
Chromium	0.491		"	0.200	0.258	117	75-125				
Cobalt	0.615		"	0.500	0.169	89.3	75-125				
Copper	0.710		"	0.250	0.306	161	75-125	High Bias			
Iron	183		"	1.00	178	472	75-125	High Bias			
Lead	8.91		"	0.500	6.32	518	75-125	High Bias			
Magnesium	124		"	1.00	126	NR	75-125	Low Bias			
Manganese	4.74		"	0.500	7.17	NR	75-125	Low Bias			
Nickel	0.763		"	0.500	0.212	110	75-125				
Potassium	23.0		"	1.00	22.2	79.7	75-125				
Selenium	1.79		"	2.00	-0.051	89.4	75-125				
Silver	0.013		"	0.0500	-0.012	25.2	75-125	Low Bias			
Sodium	2.68		"	1.00	1.71	96.9	75-125				
Thallium	2.03		"	2.00	-0.058	101	75-125				
Vanadium	0.896		"	0.500	0.359	107	75-125				
Zinc	2.84		"	0.500	2.49	68.8	75-125	Low Bias			

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 BB00168 - EPA 3050B											
Reference (BB00168-SRM1)								Prepared & Analyzed: 02/05/2020			
Aluminum	8120	5.00	mg/kg wet	7700		105	49.4-150.6				
Antimony	22.6	2.50	"	40.0		56.4	21.58-292.5				
Arsenic	128	1.50	"	125		102	69.8-129.6				
Barium	581	2.50	"	529		110	75-125.1				
Beryllium	158	0.050	"	155		102	74.8-125.2				
Cadmium	39.2	0.300	"	37.7		104	74.8-124.9				
Calcium	4820	5.00	"	4720		102	72.5-127.3				
Chromium	59.1	0.500	"	58.3		101	70-130				
Cobalt	210	0.400	"	196		107	75-125				
Copper	83.3	2.00	"	78.0		107	75-125				
Iron	13600	25.0	"	13800		98.8	34.4-165.9				
Lead	110	0.500	"	111		99.1	70.9-128.8				
Magnesium	2240	5.00	"	2240		99.8	61.6-138.4				
Manganese	317	0.500	"	310		102	74.5-125.2				
Nickel	358	1.00	"	333		107	70-130				
Potassium	2080	5.00	"	1970		105	58.4-141.1				
Selenium	217	2.50	"	251		86.5	69.3-131.1				
Silver	27.4	0.500	"	27.2		101	67.6-132				
Sodium	224	50.0	"	220		102	48.2-151.8				
Thallium	253	2.50	"	241		105	72.6-127.4				
Vanadium	121	1.00	"	125		96.5	70.2-129.6				
Zinc	348	2.50	"	351		99.2	69.8-129.9				

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 BB00144 - EPA 7473 soil											
Blank (BB00144-BLK1)								Prepared & Analyzed: 02/04/2020			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BB00144-DUP1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/04/2020			
Mercury	0.530	0.0337	mg/kg dry		0.498				6.28	35	
Matrix Spike (BB00144-MS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/04/2020			
Mercury	1.04		mg/kg	0.500	0.443	120	75-125				
Reference (BB00144-SRM1)								Prepared & Analyzed: 02/04/2020			
Mercury	3.5150		mg/kg	3.71		94.7	65-135				

Wet Chemistry Parameters - 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 BB00650 - Analysis Preparation Soil											
Blank (BB00650-BLK1)								Prepared & Analyzed: 02/14/2020			
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BB00650-SRM1)								Prepared & Analyzed: 02/14/2020			
Cyanide, total	99.8		ug/mL	96.2		104	42.41-156.96				
Batch BB00738 - Analysis Preparation Soil											
Blank (BB00738-BLK1)								Prepared & Analyzed: 02/17/2020			
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BB00738-SRM1)								Prepared & Analyzed: 02/17/2020			
Cyanide, total	67.8		ug/mL	96.2		70.5	42.41-156.96				
Batch BB00810 - Analysis Preparation Soil											
Blank (BB00810-BLK1)								Prepared & Analyzed: 02/18/2020			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BB00810-DUP1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/18/2020			
Cyanide, total	ND	0.562	mg/kg dry		ND					15	
Matrix Spike (BB00810-MS1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/18/2020			
Cyanide, total	10.6	0.562	mg/kg dry	11.2	ND	94.0	79.6-107				
Reference (BB00810-SRM1)								Prepared & Analyzed: 02/18/2020			
Cyanide, total	66.3		ug/mL	96.2		68.9	42.41-156.96				

Miscellaneous Physical Parameters - 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 BB00178 - % Solids Prep											
Duplicate (BB00178-DUP1)	*Source sample: 20B0093-06 (SB-4 (0-2))							Prepared & Analyzed: 02/05/2020			
% Solids	90.7	0.100	%		88.9				2.04	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20B0093-01	SB-1 (0-2)	40mL Vial with Stir Bar-Cool 4° C
20B0093-02	SB-1 (11-13)	40mL Vial with Stir Bar-Cool 4° C
20B0093-03	SB-3 (0-2)	40mL Vial with Stir Bar-Cool 4° C
20B0093-04	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20B0093-05	SB-3 (13-15)	40mL Vial with Stir Bar-Cool 4° C
20B0093-06	SB-4 (0-2)	40mL Vial with Stir Bar-Cool 4° C
20B0093-07	SB-4 (13-15)	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
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-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
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-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
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.

Corrective Action: On 02/14/20 the client activated Cyanide analysis on the soil samples.

Laboratory Chain-of-Custody Record

York Project (SDG) No.: 20B0093

Samples Received: 02/04/2020 19:35 **By:** Kristina M. Blocker **Logged In:** 02/04/2020 16:09 **By:** Paul Grace

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
- [x] Corrective Action Form Required

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
20B0093-01	% Solids Prep	02/05/2020 10:29	02/05/2020 10:29	Jessica A. Gallegos
20B0093-02	% Solids Prep	02/05/2020 10:29	02/05/2020 10:29	Jessica A. Gallegos
20B0093-03	% Solids Prep	02/05/2020 10:29	02/05/2020 10:29	Jessica A. Gallegos
20B0093-05	% Solids Prep	02/05/2020 10:29	02/05/2020 10:29	Jessica A. Gallegos
20B0093-06	% Solids Prep	02/05/2020 10:29	02/05/2020 10:29	Jessica A. Gallegos
20B0093-07	% Solids Prep	02/05/2020 10:29	02/05/2020 10:29	Jessica A. Gallegos
20B0093-01	Analysis Preparation Soil	02/14/2020 8:29	02/14/2020 8:29	Jessica A. Gallegos
20B0093-02	Analysis Preparation Soil	02/17/2020 8:20	02/17/2020 8:20	Zach T. Scott
20B0093-03	Analysis Preparation Soil	02/17/2020 8:20	02/17/2020 8:20	Zach T. Scott
20B0093-05	Analysis Preparation Soil	02/17/2020 8:20	02/17/2020 8:20	Zach T. Scott
20B0093-06	Analysis Preparation Soil	02/18/2020 8:27	02/18/2020 8:27	Zach T. Scott
20B0093-07	Analysis Preparation Soil	02/17/2020 8:20	02/17/2020 8:20	Zach T. Scott
20B0093-01	EPA 3050B	02/05/2020 9:13	02/05/2020 9:13	Sarah Yu
20B0093-02	EPA 3050B	02/05/2020 9:13	02/05/2020 9:13	Sarah Yu
20B0093-02RE1	EPA 3050B	02/05/2020 9:13	02/05/2020 9:13	Sarah Yu
20B0093-03	EPA 3050B	02/05/2020 9:13	02/05/2020 9:13	Sarah Yu
20B0093-05	EPA 3050B	02/05/2020 9:13	02/05/2020 9:13	Sarah Yu
20B0093-06	EPA 3050B	02/05/2020 9:13	02/05/2020 9:13	Sarah Yu
20B0093-07	EPA 3050B	02/05/2020 9:13	02/05/2020 9:13	Sarah Yu
20B0093-01	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-01	EPA 3550C	02/07/2020 7:48	02/07/2020 7:48	Laura Jankowski
20B0093-01	EPA 3550C	02/07/2020 7:48	02/07/2020 7:48	Laura Jankowski
20B0093-02	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-02	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-02	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-02RE1	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-02RE2	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-02RE3	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
20B0093-03	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-03	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-03	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-03RE1	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-05	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-05	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-05	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-06	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-06	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-06	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-07	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-07	EPA 3550C	02/10/2020 7:17	02/10/2020 7:17	Leyland Morales
20B0093-07	EPA 3550C	02/10/2020 7:21	02/10/2020 7:21	Laura Jankowski
20B0093-04	EPA 5030B	02/05/2020 19:08	02/05/2020 19:08	Lie Ling Jauw
20B0093-01	EPA 5035A	02/06/2020 7:30	02/06/2020 7:30	Meghan A. Tallon
20B0093-02	EPA 5035A	02/06/2020 7:30	02/06/2020 7:30	Meghan A. Tallon
20B0093-03	EPA 5035A	02/06/2020 7:30	02/06/2020 7:30	Meghan A. Tallon
20B0093-05	EPA 5035A	02/06/2020 7:30	02/06/2020 7:30	Meghan A. Tallon
20B0093-06	EPA 5035A	02/06/2020 7:30	02/06/2020 7:30	Meghan A. Tallon
20B0093-07	EPA 5035A	02/06/2020 7:30	02/06/2020 7:30	Meghan A. Tallon
20B0093-01	EPA 7473 soil	02/04/2020 16:44	02/04/2020 16:44	Sarah Yu
20B0093-02	EPA 7473 soil	02/04/2020 16:44	02/04/2020 16:44	Sarah Yu
20B0093-03	EPA 7473 soil	02/04/2020 16:44	02/04/2020 16:44	Sarah Yu
20B0093-05	EPA 7473 soil	02/04/2020 16:44	02/04/2020 16:44	Sarah Yu
20B0093-06	EPA 7473 soil	02/04/2020 16:44	02/04/2020 16:44	Sarah Yu
20B0093-07	EPA 7473 soil	02/04/2020 16:44	02/04/2020 16:44	Sarah Yu

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
20B0093-01	Cyanide, Total	02/14/2020 8:29	02/14/2020 14:33	Jessica A. Gallegos
20B0093-02	Cyanide, Total	02/17/2020 8:20	02/17/2020 16:52	Zach T. Scott
20B0093-03	Cyanide, Total	02/17/2020 8:20	02/17/2020 16:52	Zach T. Scott
20B0093-05	Cyanide, Total	02/17/2020 8:20	02/17/2020 16:52	Zach T. Scott
20B0093-06	Cyanide, Total	02/18/2020 8:27	02/18/2020 15:28	Zach T. Scott
20B0093-07	Cyanide, Total	02/17/2020 8:20	02/17/2020 16:52	Zach T. Scott
20B0093-01	Mercury by 7473	02/04/2020 16:44	02/04/2020 21:29	Margaret A. Ottersen
20B0093-02	Mercury by 7473	02/04/2020 16:44	02/04/2020 21:42	Margaret A. Ottersen
20B0093-03	Mercury by 7473	02/04/2020 16:44	02/04/2020 21:54	Margaret A. Ottersen
20B0093-05	Mercury by 7473	02/04/2020 16:44	02/04/2020 22:06	Margaret A. Ottersen

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
20B0093-06	Mercury by 7473	02/04/2020 16:44	02/04/2020 20:40	Margaret A. Ottersen
20B0093-07	Mercury by 7473	02/04/2020 16:44	02/04/2020 22:14	Margaret A. Ottersen
20B0093-01	Metals, Target Analyte	02/05/2020 9:13	02/05/2020 17:14	Jamie Marzelli
20B0093-02	Metals, Target Analyte	02/05/2020 9:13	02/05/2020 17:17	Jamie Marzelli
20B0093-02RE1	Metals, Target Analyte	02/05/2020 9:13	02/11/2020 12:19	Jamie Marzelli
20B0093-03	Metals, Target Analyte	02/05/2020 9:13	02/05/2020 17:19	Jamie Marzelli
20B0093-05	Metals, Target Analyte	02/05/2020 9:13	02/05/2020 17:22	Jamie Marzelli
20B0093-06	Metals, Target Analyte	02/05/2020 9:13	02/05/2020 17:31	Jamie Marzelli
20B0093-07	Metals, Target Analyte	02/05/2020 9:13	02/05/2020 17:41	Jamie Marzelli
20B0093-01	Pesticides, 8081 target list	02/07/2020 7:48	02/11/2020 12:52	Courtney Mezes
20B0093-02	Pesticides, 8081 target list	02/10/2020 7:17	02/11/2020 13:09	Courtney Mezes
20B0093-03	Pesticides, 8081 target list	02/10/2020 7:17	02/11/2020 13:26	Courtney Mezes
20B0093-05	Pesticides, 8081 target list	02/10/2020 7:17	02/11/2020 13:43	Courtney Mezes
20B0093-06	Pesticides, 8081 target list	02/10/2020 7:17	02/11/2020 13:59	Courtney Mezes
20B0093-07	Pesticides, 8081 target list	02/10/2020 7:17	02/11/2020 14:16	Courtney Mezes
20B0093-01	Polychlorinated Biphenyls (PCB)	02/07/2020 7:48	02/07/2020 23:51	Sal Rianna
20B0093-02	Polychlorinated Biphenyls (PCB)	02/10/2020 7:17	02/10/2020 21:40	Sal Rianna
20B0093-03	Polychlorinated Biphenyls (PCB)	02/10/2020 7:17	02/10/2020 21:54	Sal Rianna
20B0093-05	Polychlorinated Biphenyls (PCB)	02/10/2020 7:17	02/10/2020 22:08	Sal Rianna
20B0093-06	Polychlorinated Biphenyls (PCB)	02/10/2020 7:17	02/10/2020 22:21	Sal Rianna
20B0093-07	Polychlorinated Biphenyls (PCB)	02/10/2020 7:17	02/10/2020 22:35	Sal Rianna
20B0093-01	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/10/2020 21:59	Olivia Watson
20B0093-02	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/10/2020 22:32	Olivia Watson
20B0093-02RE1	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/11/2020 10:38	Olivia Watson
20B0093-02RE2	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/11/2020 10:06	Olivia Watson
20B0093-02RE3	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/11/2020 11:41	Olivia Watson
20B0093-03	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/10/2020 23:03	Olivia Watson
20B0093-03RE1	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/11/2020 11:09	Olivia Watson
20B0093-05	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/10/2020 23:35	Olivia Watson
20B0093-06	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/11/2020 0:07	Olivia Watson
20B0093-07	Semi-Volatiles, 8270 - Comprehensive	02/10/2020 7:21	02/11/2020 1:43	Olivia Watson
20B0093-01	Total Solids	02/05/2020 10:29	02/05/2020 13:25	Jessica A. Gallegos
20B0093-02	Total Solids	02/05/2020 10:29	02/05/2020 13:25	Jessica A. Gallegos
20B0093-03	Total Solids	02/05/2020 10:29	02/05/2020 13:25	Jessica A. Gallegos
20B0093-05	Total Solids	02/05/2020 10:29	02/05/2020 13:25	Jessica A. Gallegos
20B0093-06	Total Solids	02/05/2020 10:29	02/05/2020 13:25	Jessica A. Gallegos
20B0093-07	Total Solids	02/05/2020 10:29	02/05/2020 13:25	Jessica A. Gallegos
20B0093-01	Volatile Organics, 8260 - Comprehens	02/06/2020 7:30	02/06/2020 14:15	Steve Swift
20B0093-02	Volatile Organics, 8260 - Comprehens	02/06/2020 7:30	02/06/2020 14:40	Steve Swift
20B0093-03	Volatile Organics, 8260 - Comprehens	02/06/2020 7:30	02/06/2020 15:05	Steve Swift
20B0093-04	Volatile Organics, 8260 - Comprehens	02/05/2020 19:08	02/07/2020 3:20	Lie Ling Jauw

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
20B0093-05	Volatile Organics, 8260 - Comprehens	02/06/2020 7:30	02/06/2020 15:31	Steve Swift
20B0093-06	Volatile Organics, 8260 - Comprehens	02/06/2020 7:30	02/06/2020 15:56	Steve Swift
20B0093-07	Volatile Organics, 8260 - Comprehens	02/06/2020 7:30	02/06/2020 16:21	Steve Swift

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. 20B0093

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Roux	Company:	Company:	3475.00014000	RUSH - Next Day
Address: 209 Shafter St, Islandia, NY 11749	Address: Same	Address: Same	**YOUR Project Name**	RUSH - Two Day
Phone.: 631-232-2600	Phone.:	Phone.:	Lafayette	RUSH - Three Day
Contact: Kathryn Sommo	Contact:	Contact:		RUSH - Four Day
E-mail: KSommo@Rouxinc.com	E-mail:	E-mail:	YOUR PO#: 3475.00014000	**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.

Sarah Stern

Samples Collected by: (print your name above and sign below)

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; CT RCP; Standard Excel EDD
QA Report; CT RCP DQA/DUE; EQuIS (Standard)
NY ASP A Package; NJDEP Reduced Deliverables; NYSDEC EQuIS
NY ASP B Package; NJDEP SRP HazSite
NJDKQP; Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)
NYSDEC SCOs

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-1(0-2)	S	2/4/2020 0940	Target list, metals, TAL, Pest/PCBs, EPA 8081/8082, SVOCs, total cyanide, hexchrom 8270 - comp.	1, 8oz clear jar
SB-1(0-2)	S	" "	VOCs, 8260 - comprehensive	Terr Set.
SB-1(0-2)	S	" "	metals, TCLP RCRA (-Hg-7473) list	1 8oz clear jar
SB-1(11-13)	S	2/4/2020 1010	Targ. List, metals, TAL, Pest/PCBs, EPA 8081/8082, SVOCs, total cyanide, hexchrom, 8270	1 8oz clear jar
SB-1(11-13)	S	" "	VOCs, 8260	Terr Set
SB-1(11-13)	S	" "	metals, TCLP RCRA	1 8oz clear jar
SB-3(0-2)	S	2/4/2020 1245	Targ. list, metals, TAL, Pest/PCB EPA 8081/8082, SVOCs, total cyanide, hexchrom 8270	~~Terr Set~~ 1 8oz
SB-3(0-2)	S	" "	VOCs, 8260	Terr Set
SB-3(0-2)	S	" "	metals, TCLP RCRA	1 8oz clear jar
TB-020420	TB	—	VOCs	VOA

Comments: Hold TCLP samples
Hold total cyanide + hexavalent chromium

Preservation: (check all that apply)
HCl ___ MeOH X HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: DI

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
Anna A / Roux	2/4/2020 1544	YORK	2-4-2020 1544		2-4-2020 1635
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
UPS	2-4-20 18:00	Vinny / YSA	2-4-20 1935		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				KBlocker 2/4/20 1935	2.1 Degrees C

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
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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. 20B0093

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Roux	Company:	Company:
Address: 209 Shafter St Islandia, NY 11749	Address: Same	Address: Same
Phone.: 631-232-2600	Phone.:	Phone.:
Contact: Kathryn Sommo	Contact:	Contact:
E-mail: KSommo@Roxinc.com	E-mail:	E-mail:

YOUR Project Number: 3475.0001Y000

YOUR Project Name: Lafayette

YOUR PO#: 3475.0001Y000

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.

Samples Collected by: (print your name above and sign below) Sarah Stern

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; QA Report; NY ASP A Package; NY ASP B Package (circled); CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD (circled); EQuIS (Standard) (circled); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in) NYSDEC SCOs

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-3(13-15)	S	2/4/2020 1325	Target list, metals, TAL, pest/PCBs, cyanide, hexchrom, EPA 8081/8082, SVOCs, 8270	~~8oz jar~~
SB-3 (13-15)	S	" "	VOCs, 8260	Terr set
SB-3 (13-15)	S	" "	metals, TCLP RCRA	8 Oz Jar
SB-4(0-2)	S	2/4/2020 1450	Targ metals, pest/ cyanide, hexchrom, EPA 8081 SVOCs list, TAL, PCBs, 8082, 8270	8 Oz Jar
SB-4(0-2)	S	" "	VOCs, 8260	Terr set
SB-4(0-2)	S	" "	metals, TCLP RCRA	8OZ jar
SB-4 (13-15)	S	2/4/2020 1500	Targ metals, pest/ cyanide, EPA 8081 SVOCs list, TAL, PCB, hexchrom, 8082, 8270	8 Oz Jar
SB-4(13-15)	S	" "	VOCs, 8260	Terr set
SB-4(13-15)	S	" "	metals, TCLP RCRA	8 Oz Jar

Comments: SB-4(0-2) in ~~triplicate~~ triplicate for MS/MSD
Hold TCLP, total cyanide, + hexchrom ~~hexane~~

Preservation: (check all that apply) HCl ___ MeOH X ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: DI

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
Aaron / Roux	2/4/2020 1544	YORK	2-4-2020 1544		2-4-2020 1035
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Ling/YORK	2-4-20 18:00	Ling/YORK	2-4-20 1935		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				KBlockyer 2/4/20 1935	2.1 Degrees C

York Analytical Laboratories, Inc.
SDG: 20B0093
CLASS: VOA
METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 20B0093

Client: Roux Associates

Project: 3475.00014000 Lafayette

Client Sample Id:	Lab Sample Id:
SB-1 (0-2)	20B0093-01
SB-1 (11-13)	20B0093-02
SB-3 (0-2)	20B0093-03
Trip Blank	20B0093-04
SB-3 (13-15)	20B0093-05
SB-4 (0-2)	20B0093-06
SB-4 (13-15)	20B0093-07

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: 2/21/2020

Title: Laboratory Director

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B0615 Instrument: VOA No. 5

Calibration: YL90031

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BB00232-BS1)			Lab File ID: V5407297.D		Analyzed: 02/06/20 10:28			
SURR: 1,2-Dichloroethane-d4	50.0	106	77 - 125	5.434	5.439667	-0.0057	+/-1.00	
SURR: Toluene-d8	50.0	94.6	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	96.3	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
LCS Dup (BB00232-BSD1)			Lab File ID: V5407298.D		Analyzed: 02/06/20 10:53			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	94.7	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.2	76 - 130	10.054	10.0515	0.0025	+/-1.00	
Blank (BB00232-BLK1)			Lab File ID: V5407299.D		Analyzed: 02/06/20 11:18			
SURR: 1,2-Dichloroethane-d4	50.0	105	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	93.9	85 - 120	7.276	7.275	0.0010	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	96.1	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
Blank (BB00232-BLK2)			Lab File ID: V5407300.D		Analyzed: 02/06/20 11:43			
SURR: 1,2-Dichloroethane-d4	50.0	105	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	94.4	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.8	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
SB-1 (0-2) (20B0093-01)			Lab File ID: V5407306.D		Analyzed: 02/06/20 14:15			
SURR: 1,2-Dichloroethane-d4	50.0	105	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	93.4	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	99.3	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
SB-1 (11-13) (20B0093-02)			Lab File ID: V5407307.D		Analyzed: 02/06/20 14:40			
SURR: 1,2-Dichloroethane-d4	50.0	105	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	94.3	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.2	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
SB-3 (0-2) (20B0093-03)			Lab File ID: V5407308.D		Analyzed: 02/06/20 15:05			
SURR: 1,2-Dichloroethane-d4	50.0	103	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	94.1	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.0	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
SB-3 (13-15) (20B0093-05)			Lab File ID: V5407309.D		Analyzed: 02/06/20 15:31			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	94.9	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	100	76 - 130	10.051	10.0515	-0.0005	+/-1.00	

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B0615
Instrument: VOA No. 5
Calibration: YL90031

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SB-4 (0-2) (20B0093-06)				Lab File ID: V5407310.D		Analyzed: 02/06/20 15:56		
SURR: 1,2-Dichloroethane-d4	50.0	105	77 - 125	5.44	5.439667	0.0003	+/-1.00	
SURR: Toluene-d8	50.0	93.9	85 - 120	7.276	7.275	0.0010	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.0	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
SB-4 (13-15) (20B0093-07)				Lab File ID: V5407311.D		Analyzed: 02/06/20 16:21		
SURR: 1,2-Dichloroethane-d4	50.0	103	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	94.5	85 - 120	7.276	7.275	0.0010	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	94.9	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
Matrix Spike (BB00232-MS1)				Lab File ID: V5407316.D		Analyzed: 02/06/20 18:27		
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	93.9	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.5	76 - 130	10.051	10.0515	-0.0005	+/-1.00	
Matrix Spike Dup (BB00232-MSD1)				Lab File ID: V5407317.D		Analyzed: 02/06/20 18:52		
SURR: 1,2-Dichloroethane-d4	50.0	106	77 - 125	5.437	5.439667	-0.0027	+/-1.00	
SURR: Toluene-d8	50.0	93.2	85 - 120	7.273	7.275	-0.0020	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.7	76 - 130	10.051	10.0515	-0.0005	+/-1.00	

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B0703
Instrument: QVOA9
Calibration: YB00013

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BB00136-BS1)			Lab File ID: QV910065.D		Analyzed: 02/07/20 01:06			
SURR: 1,2-Dichloroethane-d4	10.0	114	69 - 130	5.467	5.470667	-0.0037	+/-1.00	
SURR: Toluene-d8	10.0	95.6	81 - 117	7.333	7.334333	-0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	97.7	79 - 122	10.131	10.13078	0.0002	+/-1.00	
LCS Dup (BB00136-BSD1)			Lab File ID: QV910066.D		Analyzed: 02/07/20 01:33			
SURR: 1,2-Dichloroethane-d4	10.0	114	69 - 130	5.473	5.470667	0.0023	+/-1.00	
SURR: Toluene-d8	10.0	95.8	81 - 117	7.33	7.334333	-0.0043	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	92.9	79 - 122	10.129	10.13078	-0.0018	+/-1.00	
Blank (BB00136-BLK1)			Lab File ID: QV910068.D		Analyzed: 02/07/20 02:26			
SURR: 1,2-Dichloroethane-d4	10.0	110	69 - 130	5.47	5.470667	-0.0007	+/-1.00	
SURR: Toluene-d8	10.0	95.6	81 - 117	7.333	7.334333	-0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	104	79 - 122	10.129	10.13078	-0.0018	+/-1.00	
Trip Blank (20B0093-04)			Lab File ID: QV910070.D		Analyzed: 02/07/20 03:20			
SURR: 1,2-Dichloroethane-d4	10.0	108	69 - 130	5.467	5.470667	-0.0037	+/-1.00	
SURR: Toluene-d8	10.0	95.5	81 - 117	7.33	7.334333	-0.0043	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	104	79 - 122	10.129	10.13078	-0.0018	+/-1.00	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00232
Laboratory ID: BB00232-MS1
Preparation: EPA 5035A
Initial/Final: 4.69 g / 5 ml
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED ppb	SAMPLE CONCENTRATION ppb	MS CONCENTRATION ppb	MS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	0.0	30	59.3	15 - 161
1,1,1-Trichloroethane	50.0	0.0	39	78.1	42 - 145
1,1,2,2-Tetrachloroethane	50.0	0.0	26	52.9	16 - 167
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	0.0	40	79.5	11 - 160
1,1,2-Trichloroethane	50.0	0.0	35	69.9	44 - 145
1,1-Dichloroethane	50.0	0.0	38	76.8	46 - 142
1,1-Dichloroethylene	50.0	0.0	39	78.6	30 - 153
1,2,3-Trichlorobenzene	50.0	0.0	6.2	12.4	10 - 157
1,2,3-Trichloropropane	50.0	0.0	32	63.5	38 - 155
1,2,4-Trichlorobenzene	50.0	0.0	6.1	12.2	10 - 151
1,2,4-Trimethylbenzene	50.0	0.0	16	32.6	10 - 170
1,2-Dibromo-3-chloropropane	50.0	0.0	22	43.4	36 - 138
1,2-Dibromoethane	50.0	0.0	34	68.4	40 - 142
1,2-Dichlorobenzene	50.0	0.0	14	27.8	10 - 147
1,2-Dichloroethane	50.0	0.0	44	87.9	48 - 133
1,2-Dichloropropane	50.0	0.0	33	65.8	47 - 141
1,3,5-Trimethylbenzene	50.0	0.0	17	34.9	10 - 150
1,3-Dichlorobenzene	50.0	0.0	13	25.8	10 - 144
1,4-Dichlorobenzene	50.0	0.0	13	25.4	10 - 160
1,4-Dioxane	1050	0.0	960	91.0	10 - 191
2-Butanone	50.0	0.0	40	80.1	10 - 189
2-Hexanone	50.0	0.0	28	56.4	10 - 181
4-Methyl-2-pentanone	50.0	0.0	34	68.4	10 - 166
Acetone	50.0	0.0	47	93.8	10 - 196
Acrolein	50.0	0.0	0.0	*	10 - 192
Acrylonitrile	50.0	0.0	37	74.2	13 - 161
Benzene	50.0	0.0	38	76.0	43 - 139
Bromochloromethane	50.0	0.0	41	82.2	38 - 145
Bromodichloromethane	50.0	0.0	34	68.5	38 - 147
Bromoform	50.0	0.0	27	53.5	29 - 156
Bromomethane	50.0	0.0	25	49.6	10 - 166

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00232
Laboratory ID: BB00232-MS1
Preparation: EPA 5035A
Initial/Final: 4.69 g / 5 ml
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED ppb	SAMPLE CONCENTRATION ppb	MS CONCENTRATION ppb	MS % REC. #	QC LIMITS REC.
Carbon disulfide	50.0	0.0	34	67.5	10 - 131
Carbon tetrachloride	50.0	0.0	37	73.2	35 - 145
Chlorobenzene	50.0	0.0	24	48.6	21 - 154
Chloroethane	50.0	0.0	48	95.7	15 - 160
Chloroform	50.0	0.0	40	80.8	47 - 142
Chloromethane	50.0	0.0	39	78.0	10 - 159
cis-1,2-Dichloroethylene	50.0	0.0	37	73.5	42 - 144
cis-1,3-Dichloropropylene	50.0	0.0	29	57.0	18 - 159
Cyclohexane	50.0	0.0	34	67.7 *	70 - 130
Dibromochloromethane	50.0	0.0	31	62.1	10 - 179
Dibromomethane	50.0	0.0	36	71.1	47 - 143
Dichlorodifluoromethane	50.0	0.0	41	82.7	10 - 145
Ethyl Benzene	50.0	0.0	25	49.8	11 - 158
Hexachlorobutadiene	50.0	0.0	6.4	12.8	10 - 158
Isopropylbenzene	50.0	0.0	21	41.1	10 - 162
Methyl acetate	50.0	0.0	34	68.3	10 - 149
Methyl tert-butyl ether (MTBE)	50.0	0.0	43	87.0	42 - 152
Methylcyclohexane	50.0	0.0	24	47.2 *	70 - 130
Methylene chloride	50.0	2.6	49	92.6	28 - 151
n-Butylbenzene	50.0	0.0	10	21.0	10 - 162
n-Propylbenzene	50.0	0.0	17	34.5	10 - 155
o-Xylene	50.0	0.0	24	48.1	10 - 158
p- & m- Xylenes	100	0.0	47	47.2	10 - 156
p-Isopropyltoluene	50.0	0.0	15	29.2	10 - 147
sec-Butylbenzene	50.0	0.0	17	33.3	10 - 157
Styrene	50.0	0.0	22	43.0	13 - 171
tert-Butyl alcohol (TBA)	250	0.0	200	80.8	34 - 179
tert-Butylbenzene	50.0	0.0	16	31.8	10 - 160
Tetrachloroethylene	50.0	0.0	24	47.5	30 - 167
Toluene	50.0	0.0	30	59.2	21 - 160
trans-1,2-Dichloroethylene	50.0	0.0	38	75.5	29 - 153
trans-1,3-Dichloropropylene	50.0	0.0	25	50.5	18 - 155

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00232	Laboratory ID:	BB00232-MS1
Preparation:	EPA 5035A	Initial/Final:	4.69 g / 5 ml

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED ppb	SAMPLE CONCENTRATION ppb	MS CONCENTRATION ppb	MS % REC. #	QC LIMITS REC.
trans-1,4-dichloro-2-butene	50.0	0.0	26	52.6	17 - 154
Trichloroethylene	50.0	0.0	31	62.6	24 - 169
Trichlorofluoromethane	50.0	0.0	39	78.8	35 - 142
Vinyl Chloride	50.0	0.0	39	78.5	12 - 160

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

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00232
Laboratory ID: BB00232-MSD1
Preparation: EPA 5035A
Initial/Final: 5.98 g / 5 ml
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED ppb	MSD CONCENTRATION ppb	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	35	70.7	17.6	33	15 - 161
1,1,1-Trichloroethane	50.0	52	104	28.2	30	42 - 145
1,1,2,2-Tetrachloroethane	50.0	29	58.0	9.16	56	16 - 167
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	56	112	33.8 *	31	11 - 160
1,1,2-Trichloroethane	50.0	36	71.1	1.76	40	44 - 145
1,1-Dichloroethane	50.0	44	89.0	14.7	36	46 - 142
1,1-Dichloroethylene	50.0	52	104	27.5	31	30 - 153
1,2,3-Trichlorobenzene	50.0	9.7	19.4	44.3	47	10 - 157
1,2,3-Trichloropropane	50.0	33	66.7	4.89	48	38 - 155
1,2,4-Trichlorobenzene	50.0	9.8	19.6	46.5	52	10 - 151
1,2,4-Trimethylbenzene	50.0	24	47.7	37.7	242	10 - 170
1,2-Dibromo-3-chloropropane	50.0	25	49.7	13.6	54	36 - 138
1,2-Dibromoethane	50.0	35	70.5	3.08	39	40 - 142
1,2-Dichlorobenzene	50.0	19	38.0	31.2	52	10 - 147
1,2-Dichloroethane	50.0	43	85.3	2.98	32	48 - 133
1,2-Dichloropropane	50.0	36	72.6	9.82	37	47 - 141
1,3,5-Trimethylbenzene	50.0	26	51.4	38.3	62	10 - 150
1,3-Dichlorobenzene	50.0	19	37.2	36.2	51	10 - 144
1,4-Dichlorobenzene	50.0	18	36.0	34.6	52	10 - 160
1,4-Dioxane	1050	800	76.0	18.0	196	10 - 191
2-Butanone	50.0	39	78.2	2.32	67	10 - 189
2-Hexanone	50.0	28	56.5	0.248	60	10 - 181
4-Methyl-2-pentanone	50.0	33	67.0	2.19	47	10 - 166
Acetone	50.0	59	118	22.8	150	10 - 196
Acrolein	50.0	0.0	*		128	10 - 192
Acrylonitrile	50.0	36	72.3	2.62	48	13 - 161
Benzene	50.0	45	89.4	16.1	64	43 - 139
Bromochloromethane	50.0	41	82.3	0.122	30	38 - 145
Bromodichloromethane	50.0	38	75.7	10.0	37	38 - 147
Bromoform	50.0	29	58.6	9.20	51	29 - 156
Bromomethane	50.0	51	102	69.5 *	42	10 - 166
Carbon disulfide	50.0	46	92.6	31.3	36	10 - 131

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00232
Laboratory ID: BB00232-MSD1
Preparation: EPA 5035A
Initial/Final: 5.98 g / 5 ml
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED ppb	MSD CONCENTRATION ppb	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Carbon tetrachloride	50.0	51	102	32.6 *	31	35 - 145
Chlorobenzene	50.0	30	59.9	20.8	32	21 - 154
Chloroethane	50.0	60	120	22.5	40	15 - 160
Chloroform	50.0	46	91.6	12.5	29	47 - 142
Chloromethane	50.0	48	96.2	20.9	31	10 - 159
cis-1,2-Dichloroethylene	50.0	43	85.0	14.5	30	42 - 144
cis-1,3-Dichloropropylene	50.0	31	62.0	8.30	39	18 - 159
Cyclohexane	50.0	50	99.2	37.7 *	30	70 - 130
Dibromochloromethane	50.0	34	67.3	7.94	41	10 - 179
Dibromomethane	50.0	36	72.5	1.98	41	47 - 143
Dichlorodifluoromethane	50.0	58	116	33.1	34	10 - 145
Ethyl Benzene	50.0	34	67.0	29.4	42	11 - 158
Hexachlorobutadiene	50.0	11	22.3	54.3 *	45	10 - 158
Isopropylbenzene	50.0	30	59.3	36.3	57	10 - 162
Methyl acetate	50.0	34	68.4	0.146	64	10 - 149
Methyl tert-butyl ether (MTBE)	50.0	43	86.0	1.18	47	42 - 152
Methylcyclohexane	50.0	36	71.1	40.5 *	30	70 - 130
Methylene chloride	50.0	52	97.2	4.81	49	28 - 151
n-Butylbenzene	50.0	16	32.8	44.0	96	10 - 162
n-Propylbenzene	50.0	26	51.5	39.6	56	10 - 155
o-Xylene	50.0	32	63.0	26.9	51	10 - 158
p- & m- Xylenes	100	64	63.8	29.8	47	10 - 156
p-Isopropyltoluene	50.0	23	46.1	45.0	60	10 - 147
sec-Butylbenzene	50.0	26	52.3	44.5	56	10 - 157
Styrene	50.0	27	54.5	23.5	39	13 - 171
tert-Butyl alcohol (TBA)	250	200	78.3	3.12	35	34 - 179
tert-Butylbenzene	50.0	24	47.9	40.2	79	10 - 160
Tetrachloroethylene	50.0	34	67.9	35.3 *	33	30 - 167
Toluene	50.0	37	73.5	21.6	50	21 - 160
trans-1,2-Dichloroethylene	50.0	46	91.9	19.6	30	29 - 153
trans-1,3-Dichloropropylene	50.0	27	54.2	7.11	30	18 - 155
trans-1,4-dichloro-2-butene	50.0	28	56.0	6.30	30	17 - 154
Trichloroethylene	50.0	39	78.9	23.1	30	24 - 169

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00232	Laboratory ID:	BB00232-MSD1
Preparation:	EPA 5035A	Initial/Final:	5.98 g / 5 ml

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED ppb	MSD CONCENTRATION ppb	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichlorofluoromethane	50.0	55	110	33.5 *	30	35 - 142
Vinyl Chloride	50.0	52	104	27.7	35	12 - 160

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:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Water		
Batch:	BB00136	Laboratory ID:	BB00136-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	10	102	82 - 126
1,1,1-Trichloroethane	10.0	11	109	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.9	89.1	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10	102	54 - 165
1,1,2-Trichloroethane	10.0	9.2	91.7	82 - 123
1,1-Dichloroethane	10.0	9.5	94.6	82 - 129
1,1-Dichloroethylene	10.0	9.6	96.0	68 - 138
1,2,3-Trichlorobenzene	10.0	6.9	68.8 *	76 - 136
1,2,3-Trichloropropane	10.0	9.6	96.2	77 - 128
1,2,4-Trichlorobenzene	10.0	7.8	77.6	76 - 137
1,2,4-Trimethylbenzene	10.0	9.0	90.5	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.4	93.8	45 - 147
1,2-Dibromoethane	10.0	9.4	93.7	83 - 124
1,2-Dichlorobenzene	10.0	9.0	90.5	79 - 123
1,2-Dichloroethane	10.0	11	109	73 - 132
1,2-Dichloropropane	10.0	8.8	88.4	78 - 126
1,3,5-Trimethylbenzene	10.0	9.2	92.4	80 - 131
1,3-Dichlorobenzene	10.0	9.0	90.1	86 - 122
1,4-Dichlorobenzene	10.0	9.0	90.0	85 - 124
1,4-Dioxane	210	150	69.9	10 - 349
2-Butanone	10.0	10	101	49 - 152
2-Hexanone	10.0	9.1	90.8	51 - 146
4-Methyl-2-pentanone	10.0	9.4	93.8	57 - 145
Acetone	10.0	10	102	14 - 150
Acrolein	100	5.7	5.73 *	10 - 153
Acrylonitrile	10.0	13	128	51 - 150
Benzene	10.0	9.2	92.1	85 - 126
Bromochloromethane	10.0	9.7	97.4	77 - 128
Bromodichloromethane	10.0	9.7	97.4	79 - 128
Bromoform	10.0	10	102	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Water		
Batch:	BB00136	Laboratory ID:	BB00136-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	14	140	43 - 168
Carbon disulfide	10.0	8.1	81.1	68 - 146
Carbon tetrachloride	10.0	11	107	77 - 141
Chlorobenzene	10.0	9.1	91.4	88 - 120
Chloroethane	10.0	11	111	65 - 136
Chloroform	10.0	10	102	82 - 128
Chloromethane	10.0	9.3	92.8	43 - 155
cis-1,2-Dichloroethylene	10.0	9.5	94.8	83 - 129
cis-1,3-Dichloropropylene	10.0	9.2	91.6	80 - 131
Cyclohexane	10.0	4.0	40.1 *	63 - 149
Dibromochloromethane	10.0	10	101	80 - 130
Dibromomethane	10.0	9.7	97.4	72 - 134
Dichlorodifluoromethane	10.0	12	124	44 - 144
Ethyl Benzene	10.0	9.5	95.4	80 - 131
Hexachlorobutadiene	10.0	7.4	74.5	67 - 146
Isopropylbenzene	10.0	8.7	86.7	76 - 140
Methyl acetate	10.0	8.9	89.2	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10	103	76 - 135
Methylcyclohexane	10.0	8.7	86.9	72 - 143
Methylene chloride	10.0	9.5	95.4	55 - 137
n-Butylbenzene	10.0	9.0	89.7	79 - 132
n-Propylbenzene	10.0	8.7	86.8	78 - 133
o-Xylene	10.0	9.7	97.3	78 - 130
p- & m- Xylenes	20.0	19	95.4	77 - 133
p-Isopropyltoluene	10.0	8.9	89.0	81 - 136
sec-Butylbenzene	10.0	9.2	91.8	79 - 137
Styrene	10.0	9.7	96.9	67 - 132
tert-Butyl alcohol (TBA)	50.0	48	95.1	25 - 162
tert-Butylbenzene	10.0	7.7	76.7 *	77 - 138
Tetrachloroethylene	10.0	8.2	81.5 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Water		
Batch:	BB00136	Laboratory ID:	BB00136-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	8.8	88.2	80 - 127
trans-1,2-Dichloroethylene	10.0	9.4	93.8	80 - 132
trans-1,3-Dichloropropylene	10.0	9.5	95.3	78 - 131
trans-1,4-dichloro-2-butene	10.0	11	111	63 - 141
Trichloroethylene	10.0	8.9	89.2	82 - 128
Trichlorofluoromethane	10.0	12	122	67 - 139
Vinyl Chloride	10.0	12	120	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: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Water
Batch: BB00136
Laboratory ID: BB00136-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	9.6	96.0		6.45	30	82 - 126
1,1,1-Trichloroethane	10.0	10	102		7.30	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.4	84.1		5.77	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.5	94.6		8.02	30	54 - 165
1,1,2-Trichloroethane	10.0	8.8	87.9		4.23	30	82 - 123
1,1-Dichloroethane	10.0	9.0	89.6		5.43	30	82 - 129
1,1-Dichloroethylene	10.0	8.9	89.0		7.57	30	68 - 138
1,2,3-Trichlorobenzene	10.0	6.4	64.0	*	7.23	30	76 - 136
1,2,3-Trichloropropane	10.0	9.0	89.8		6.88	30	77 - 128
1,2,4-Trichlorobenzene	10.0	7.1	70.8	*	9.16	30	76 - 137
1,2,4-Trimethylbenzene	10.0	8.4	84.4		6.98	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.3	83.4		11.7	30	45 - 147
1,2-Dibromoethane	10.0	9.0	90.1		3.92	30	83 - 124
1,2-Dichlorobenzene	10.0	8.5	84.8		6.50	30	79 - 123
1,2-Dichloroethane	10.0	11	106		2.60	30	73 - 132
1,2-Dichloropropane	10.0	8.4	84.5		4.51	30	78 - 126
1,3,5-Trimethylbenzene	10.0	8.5	84.9		8.46	30	80 - 131
1,3-Dichlorobenzene	10.0	8.4	83.9	*	7.13	30	86 - 122
1,4-Dichlorobenzene	10.0	8.3	83.4	*	7.61	30	85 - 124
1,4-Dioxane	210	120	58.7		17.5	30	10 - 349
2-Butanone	10.0	8.2	82.1		20.9	30	49 - 152
2-Hexanone	10.0	8.4	84.4		7.31	30	51 - 146
4-Methyl-2-pentanone	10.0	9.5	95.0		1.27	30	57 - 145
Acetone	10.0	8.6	86.2		16.4	30	14 - 150
Acrolein	100	6.8	6.83	*	17.5	30	10 - 153
Acrylonitrile	10.0	13	131		2.32	30	51 - 150
Benzene	10.0	8.8	87.9		4.67	30	85 - 126
Bromochloromethane	10.0	9.4	94.0		3.55	30	77 - 128
Bromodichloromethane	10.0	9.4	94.0		3.55	30	79 - 128
Bromoform	10.0	10	100		2.27	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Water
Batch: BB00136
Laboratory ID: BB00136-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	131	6.69	30	43 - 168
Carbon disulfide	10.0	7.6	76.2	6.23	30	68 - 146
Carbon tetrachloride	10.0	10	103	4.18	30	77 - 141
Chlorobenzene	10.0	8.8	88.1	3.68	30	88 - 120
Chloroethane	10.0	9.6	96.1	14.3	30	65 - 136
Chloroform	10.0	9.8	97.5	4.02	30	82 - 128
Chloromethane	10.0	8.8	88.2	5.08	30	43 - 155
cis-1,2-Dichloroethylene	10.0	9.2	91.9	3.11	30	83 - 129
cis-1,3-Dichloropropylene	10.0	8.8	88.4	3.56	30	80 - 131
Cyclohexane	10.0	3.7	36.7 *	8.85	30	63 - 149
Dibromochloromethane	10.0	9.8	98.1	3.21	30	80 - 130
Dibromomethane	10.0	9.4	94.5	3.02	30	72 - 134
Dichlorodifluoromethane	10.0	12	116	6.56	30	44 - 144
Ethyl Benzene	10.0	9.1	90.7	5.05	30	80 - 131
Hexachlorobutadiene	10.0	6.8	67.6	9.71	30	67 - 146
Isopropylbenzene	10.0	8.0	79.7	8.41	30	76 - 140
Methyl acetate	10.0	7.8	77.8	13.7	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.7	97.4	5.49	30	76 - 135
Methylcyclohexane	10.0	8.1	80.7	7.40	30	72 - 143
Methylene chloride	10.0	9.1	91.4	4.28	30	55 - 137
n-Butylbenzene	10.0	8.5	84.6	5.85	30	79 - 132
n-Propylbenzene	10.0	8.1	80.7	7.28	30	78 - 133
o-Xylene	10.0	9.4	94.0	3.45	30	78 - 130
p- & m- Xylenes	20.0	18	91.4	4.34	30	77 - 133
p-Isopropyltoluene	10.0	8.5	85.4	4.13	30	81 - 136
sec-Butylbenzene	10.0	8.6	86.3	6.18	30	79 - 137
Styrene	10.0	9.7	96.8	0.103	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	48	95.4	0.315	30	25 - 162
tert-Butylbenzene	10.0	7.2	72.2 *	6.04	30	77 - 138
Tetrachloroethylene	10.0	7.8	77.8 *	4.65	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Water		
Batch:	BB00136	Laboratory ID:	BB00136-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	8.6	85.8	2.76	30	80 - 127
trans-1,2-Dichloroethylene	10.0	8.8	88.5	5.81	30	80 - 132
trans-1,3-Dichloropropylene	10.0	9.1	91.1	4.51	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	9.8	97.9	12.2	30	63 - 141
Trichloroethylene	10.0	8.6	85.6	4.12	30	82 - 128
Trichlorofluoromethane	10.0	11	111	9.62	30	67 - 139
Vinyl Chloride	10.0	11	110	8.85	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: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00232
Laboratory ID: BB00232-BS1
Preparation: EPA 5035A
Initial/Final: 5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	52	103	75 - 129
1,1,1-Trichloroethane	50.0	60	120	71 - 137
1,1,2,2-Tetrachloroethane	50.0	47	94.4	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	62	124	58 - 146
1,1,2-Trichloroethane	50.0	49	98.4	83 - 123
1,1-Dichloroethane	50.0	53	106	75 - 130
1,1-Dichloroethylene	50.0	58	116	64 - 137
1,2,3-Trichlorobenzene	50.0	51	102	81 - 140
1,2,3-Trichloropropane	50.0	49	98.5	81 - 126
1,2,4-Trichlorobenzene	50.0	51	103	80 - 141
1,2,4-Trimethylbenzene	50.0	49	98.7	84 - 125
1,2-Dibromo-3-chloropropane	50.0	42	83.1	74 - 142
1,2-Dibromoethane	50.0	53	105	86 - 123
1,2-Dichlorobenzene	50.0	49	98.4	85 - 122
1,2-Dichloroethane	50.0	57	114	71 - 133
1,2-Dichloropropane	50.0	47	94.3	81 - 122
1,3,5-Trimethylbenzene	50.0	49	98.6	82 - 126
1,3-Dichlorobenzene	50.0	49	97.2	84 - 124
1,4-Dichlorobenzene	50.0	48	96.2	84 - 124
1,4-Dioxane	1050	1100	105	10 - 228
2-Butanone	50.0	57	115	58 - 147
2-Hexanone	50.0	51	101	70 - 139
4-Methyl-2-pentanone	50.0	50	100	72 - 132
Acetone	50.0	48	96.9	36 - 155
Acrolein	50.0	66	132	10 - 238
Acrylonitrile	50.0	55	110	66 - 141
Benzene	50.0	55	111	77 - 127
Bromochloromethane	50.0	55	110	74 - 129
Bromodichloromethane	50.0	52	103	81 - 124
Bromoform	50.0	46	91.4	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00232
Laboratory ID: BB00232-BS1
Preparation: EPA 5035A
Initial/Final: 5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	50.0	63	126	32 - 177
Carbon disulfide	50.0	58	115	10 - 136
Carbon tetrachloride	50.0	59	119	66 - 143
Chlorobenzene	50.0	50	99.9	86 - 120
Chloroethane	50.0	69	138	51 - 142
Chloroform	50.0	56	112	76 - 131
Chloromethane	50.0	56	111	49 - 132
cis-1,2-Dichloroethylene	50.0	55	110	74 - 132
cis-1,3-Dichloropropylene	50.0	50	99.3	81 - 129
Cyclohexane	50.0	62	125	70 - 130
Dibromochloromethane	50.0	48	96.4	10 - 200
Dibromomethane	50.0	50	100	83 - 124
Dichlorodifluoromethane	50.0	60	121	28 - 158
Ethyl Benzene	50.0	51	103	84 - 125
Hexachlorobutadiene	50.0	52	104	83 - 133
Isopropylbenzene	50.0	48	95.0	81 - 127
Methyl acetate	50.0	53	107	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	56	111	74 - 131
Methylcyclohexane	50.0	52	103	70 - 130
Methylene chloride	50.0	61	121	57 - 141
n-Butylbenzene	50.0	44	88.2	80 - 130
n-Propylbenzene	50.0	47	94.6	74 - 136
o-Xylene	50.0	51	102	83 - 123
p- & m- Xylenes	100	100	103	82 - 128
p-Isopropyltoluene	50.0	50	99.9	85 - 125
sec-Butylbenzene	50.0	51	102	83 - 125
Styrene	50.0	53	105	86 - 126
tert-Butyl alcohol (TBA)	250	260	104	70 - 130
tert-Butylbenzene	50.0	42	83.8	80 - 127
Tetrachloroethylene	50.0	49	97.0	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00232	Laboratory ID:	BB00232-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	50.0	51	101	85 - 121
trans-1,2-Dichloroethylene	50.0	59	118	72 - 132
trans-1,3-Dichloropropylene	50.0	49	97.1	78 - 132
trans-1,4-dichloro-2-butene	50.0	47	93.0	75 - 135
Trichloroethylene	50.0	51	102	84 - 123
Trichlorofluoromethane	50.0	62	125	62 - 140
Vinyl Chloride	50.0	59	118	52 - 130

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: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00232
Laboratory ID: BB00232-BSD1
Preparation: EPA 5035A
Initial/Final: 5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	51	102	1.44	30	75 - 129
1,1,1-Trichloroethane	50.0	58	117	2.27	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	46	92.4	2.06	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	50.0	60	120	3.05	30	58 - 146
1,1,2-Trichloroethane	50.0	48	96.3	2.10	30	83 - 123
1,1-Dichloroethane	50.0	52	104	1.87	30	75 - 130
1,1-Dichloroethylene	50.0	57	114	2.00	30	64 - 137
1,2,3-Trichlorobenzene	50.0	50	100	1.27	30	81 - 140
1,2,3-Trichloropropane	50.0	48	96.4	2.22	30	81 - 126
1,2,4-Trichlorobenzene	50.0	51	101	1.74	30	80 - 141
1,2,4-Trimethylbenzene	50.0	49	97.4	1.24	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	42	84.2	1.22	30	74 - 142
1,2-Dibromoethane	50.0	51	103	2.75	30	86 - 123
1,2-Dichlorobenzene	50.0	48	96.9	1.49	30	85 - 122
1,2-Dichloroethane	50.0	56	111	2.61	30	71 - 133
1,2-Dichloropropane	50.0	46	92.9	1.54	30	81 - 122
1,3,5-Trimethylbenzene	50.0	49	97.3	1.31	30	82 - 126
1,3-Dichlorobenzene	50.0	48	96.2	0.972	30	84 - 124
1,4-Dichlorobenzene	50.0	48	96.1	0.104	30	84 - 124
1,4-Dioxane	1050	980	93.1	11.9	30	10 - 228
2-Butanone	50.0	54	109	5.49	30	58 - 147
2-Hexanone	50.0	47	94.8	6.47	30	70 - 139
4-Methyl-2-pentanone	50.0	47	94.8	5.28	30	72 - 132
Acetone	50.0	45	90.3	7.12	30	36 - 155
Acrolein	50.0	60	121	8.91	30	10 - 238
Acrylonitrile	50.0	53	106	4.18	30	66 - 141
Benzene	50.0	54	108	2.83	30	77 - 127
Bromochloromethane	50.0	53	107	3.26	30	74 - 129
Bromodichloromethane	50.0	51	102	1.58	30	81 - 124
Bromoform	50.0	45	90.3	1.21	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00232
Laboratory ID: BB00232-BSD1
Preparation: EPA 5035A
Initial/Final: 5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	50.0	61	123	2.38	30	32 - 177
Carbon disulfide	50.0	57	113	1.91	30	10 - 136
Carbon tetrachloride	50.0	58	115	3.15	30	66 - 143
Chlorobenzene	50.0	49	98.6	1.35	30	86 - 120
Chloroethane	50.0	68	136	1.15	30	51 - 142
Chloroform	50.0	55	110	1.92	30	76 - 131
Chloromethane	50.0	53	106	4.86	30	49 - 132
cis-1,2-Dichloroethylene	50.0	53	107	2.94	30	74 - 132
cis-1,3-Dichloropropylene	50.0	49	97.8	1.50	30	81 - 129
Cyclohexane	50.0	60	121	3.21	30	70 - 130
Dibromochloromethane	50.0	47	94.8	1.69	30	10 - 200
Dibromomethane	50.0	49	98.9	1.03	30	83 - 124
Dichlorodifluoromethane	50.0	58	116	4.30	30	28 - 158
Ethyl Benzene	50.0	50	101	1.96	30	84 - 125
Hexachlorobutadiene	50.0	51	101	2.71	30	83 - 133
Isopropylbenzene	50.0	47	93.5	1.65	30	81 - 127
Methyl acetate	50.0	50	101	5.40	30	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	54	108	2.69	30	74 - 131
Methylcyclohexane	50.0	51	101	2.37	30	70 - 130
Methylene chloride	50.0	58	117	3.43	30	57 - 141
n-Butylbenzene	50.0	41	81.6	7.84	30	80 - 130
n-Propylbenzene	50.0	47	93.9	0.806	30	74 - 136
o-Xylene	50.0	50	99.5	2.07	30	83 - 123
p- & m- Xylenes	100	100	100	2.66	30	82 - 128
p-Isopropyltoluene	50.0	49	98.7	1.19	30	85 - 125
sec-Butylbenzene	50.0	50	101	1.17	30	83 - 125
Styrene	50.0	51	102	2.68	30	86 - 126
tert-Butyl alcohol (TBA)	250	240	95.9	7.86	30	70 - 130
tert-Butylbenzene	50.0	42	83.4	0.526	30	80 - 127
Tetrachloroethylene	50.0	47	94.3	2.80	30	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00232	Laboratory ID:	BB00232-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.0	49	98.5	2.98	30	85 - 121
trans-1,2-Dichloroethylene	50.0	57	115	2.67	30	72 - 132
trans-1,3-Dichloropropylene	50.0	48	96.5	0.661	30	78 - 132
trans-1,4-dichloro-2-butene	50.0	45	90.5	2.77	30	75 - 135
Trichloroethylene	50.0	51	101	1.08	30	84 - 123
Trichlorofluoromethane	50.0	61	121	2.99	30	62 - 140
Vinyl Chloride	50.0	57	113	4.36	30	52 - 130

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: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00136 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Trip Blank	20B0093-04	QV910070.D	02/05/20 19:08	
Blank	BB00136-BLK1	QV910068.D	02/05/20 19:08	
LCS	BB00136-BS1	QV910065.D	02/05/20 19:08	
LCS Dup	BB00136-BSD1	QV910066.D	02/05/20 19:08	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00232 Batch Matrix: Soil Preparation: EPA 5035A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (0-2)	20B0093-01	V5407306.D	02/06/20 07:30	From BB00174 by MAT on 02/06/2020
SB-1 (11-13)	20B0093-02	V5407307.D	02/06/20 07:30	From BB00174 by MAT on 02/06/2020
SB-3 (0-2)	20B0093-03	V5407308.D	02/06/20 07:30	From BB00174 by MAT on 02/06/2020
SB-3 (13-15)	20B0093-05	V5407309.D	02/06/20 07:30	From BB00174 by MAT on 02/06/2020
SB-4 (0-2)	20B0093-06	V5407310.D	02/06/20 07:30	From BB00174 by MAT on 02/06/2020
SB-4 (13-15)	20B0093-07	V5407311.D	02/06/20 07:30	From BB00174 by MAT on 02/06/2020
Blank	BB00232-BLK1	V5407299.D	02/06/20 07:30	
Blank	BB00232-BLK2	V5407300.D	02/06/20 07:30	
LCS	BB00232-BS1	V5407297.D	02/06/20 07:30	
LCS Dup	BB00232-BSD1	V5407298.D	02/06/20 07:30	
SB-4 (0-2)	BB00232-MS1	V5407316.D	02/06/20 07:30	
SB-4 (0-2)	BB00232-MSD1	V5407317.D	02/06/20 07:30	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Water	Laboratory ID:	BB00136-BLK1	File ID:	QV910068.D
Prepared:	02/05/20 19:08	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	02/07/20 02:26	Instrument:	QVOA9		
Batch:	BB00136	Sequence:	Y0B0703	Calibration:	YB00013

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:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Water	Laboratory ID:	BB00136-BLK1	File ID:	QV910068.D
Prepared:	02/05/20 19:08	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	02/07/20 02:26	Instrument:	QVOA9		
Batch:	BB00136	Sequence:	Y0B0703	Calibration:	YB00013

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:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Water	Laboratory ID:	BB00136-BLK1	File ID:	QV910068.D
Prepared:	02/05/20 19:08	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	02/07/20 02:26	Instrument:	QVOA9		
Batch:	BB00136	Sequence:	Y0B0703	Calibration:	YB00013

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	11.0	110	69 - 130	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	
SURR: Toluene-d8	10.0	9.56	95.6	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	92140	11.831	93727	11.826	
ISTD: Chlorobenzene-d5	307766	8.835	284123	8.838	
ISTD: Fluorobenzene	72028	5.787	65155	5.787	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK1	File ID:	V5407299.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:18	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethylene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
123-91-1	1,4-Dioxane	100	U
78-93-3	2-Butanone	5.0	U
591-78-6	2-Hexanone	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
67-64-1	Acetone	10	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	5.0	U
71-43-2	Benzene	5.0	U
74-97-5	Bromochloromethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK1	File ID:	V5407299.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:18	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
74-83-9	Bromomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
156-59-2	cis-1,2-Dichloroethylene	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	5.0	U
110-82-7	Cyclohexane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
100-41-4	Ethyl Benzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-20-9	Methyl acetate	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U
108-87-2	Methylcyclohexane	5.0	U
75-09-2	Methylene chloride	10	U
104-51-8	n-Butylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	p- & m- Xylenes	10	U
99-87-6	p-Isopropyltoluene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-65-0	tert-Butyl alcohol (TBA)	25	U
98-06-6	tert-Butylbenzene	5.0	U
127-18-4	Tetrachloroethylene	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK1	File ID:	V5407299.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:18	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
108-88-3	Toluene	5.0	U
156-60-5	trans-1,2-Dichloroethylene	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	5.0	U
110-57-6	trans-1,4-dichloro-2-butene	5.0	U
79-01-6	Trichloroethylene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
1330-20-7	Xylenes, Total	15	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.6	105	77 - 125	
SURR: p-Bromofluorobenzene	50.0	48.0	96.1	76 - 130	
SURR: Toluene-d8	50.0	47.0	93.9	85 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	890873	11.742	902270	11.742	
ISTD: Chlorobenzene-d5	2057454	8.771	2036727	8.768	
ISTD: Fluorobenzene	562666	5.742	562365	5.739	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK2	File ID:	V5407300.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:43	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
630-20-6	1,1,1,2-Tetrachloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	500	U
79-00-5	1,1,2-Trichloroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
75-35-4	1,1-Dichloroethylene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
96-18-4	1,2,3-Trichloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
106-93-4	1,2-Dibromoethane	500	U
95-50-1	1,2-Dichlorobenzene	500	U
107-06-2	1,2-Dichloroethane	500	U
78-87-5	1,2-Dichloropropane	500	U
108-67-8	1,3,5-Trimethylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
123-91-1	1,4-Dioxane	10000	U
78-93-3	2-Butanone	500	U
591-78-6	2-Hexanone	500	U
108-10-1	4-Methyl-2-pentanone	500	U
67-64-1	Acetone	1000	U
107-02-8	Acrolein	1000	U
107-13-1	Acrylonitrile	500	U
71-43-2	Benzene	500	U
74-97-5	Bromochloromethane	500	U
75-27-4	Bromodichloromethane	500	U
75-25-2	Bromoform	500	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK2	File ID:	V5407300.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:43	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
74-83-9	Bromomethane	500	U
75-15-0	Carbon disulfide	500	U
56-23-5	Carbon tetrachloride	500	U
108-90-7	Chlorobenzene	500	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	500	U
74-87-3	Chloromethane	500	U
156-59-2	cis-1,2-Dichloroethylene	500	U
10061-01-5	cis-1,3-Dichloropropylene	500	U
110-82-7	Cyclohexane	500	U
124-48-1	Dibromochloromethane	500	U
74-95-3	Dibromomethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
100-41-4	Ethyl Benzene	500	U
87-68-3	Hexachlorobutadiene	500	U
98-82-8	Isopropylbenzene	500	U
79-20-9	Methyl acetate	500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	500	U
108-87-2	Methylcyclohexane	500	U
75-09-2	Methylene chloride	1000	U
104-51-8	n-Butylbenzene	500	U
103-65-1	n-Propylbenzene	500	U
95-47-6	o-Xylene	500	U
179601-23-1	p- & m- Xylenes	1000	U
99-87-6	p-Isopropyltoluene	500	U
135-98-8	sec-Butylbenzene	500	U
100-42-5	Styrene	500	U
75-65-0	tert-Butyl alcohol (TBA)	2500	U
98-06-6	tert-Butylbenzene	500	U
127-18-4	Tetrachloroethylene	500	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK2	File ID:	V5407300.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:43	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
108-88-3	Toluene	500	U
156-60-5	trans-1,2-Dichloroethylene	500	U
10061-02-6	trans-1,3-Dichloropropylene	500	U
110-57-6	trans-1,4-dichloro-2-butene	500	U
79-01-6	Trichloroethylene	500	U
75-69-4	Trichlorofluoromethane	500	U
75-01-4	Vinyl Chloride	500	U
1330-20-7	Xylenes, Total	1500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.4	105	77 - 125	D
SURR: p-Bromofluorobenzene	50.0	47.9	95.8	76 - 130	D
SURR: Toluene-d8	50.0	47.2	94.4	85 - 120	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	853205	11.742	902270	11.742	
ISTD: Chlorobenzene-d5	1965078	8.768	2036727	8.768	
ISTD: Fluorobenzene	540894	5.739	562365	5.739	

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Lab File ID:	V5407295.D	Injection Date:	02/06/20
Instrument ID:	VOA No. 5	Injection Time:	09:18
Sequence:	Y0B0615	Lab Sample ID:	Y0B0615-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16	PASS
75	30 - 60% of 95	49	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.51	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	62.8	PASS
175	5 - 9% of 174	7.55	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.6	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Lab File ID:	QV910063.D	Injection Date:	02/07/20
Instrument ID:	QVOA9	Injection Time:	00:12
Sequence:	Y0B0703	Lab Sample ID:	Y0B0703-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	55.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.31	PASS
173	Less than 2% of 174	1.48	PASS
174	50 - 100% of 95	77.5	PASS
175	5 - 9% of 174	7.22	PASS
176	95 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.66	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Lab File ID:	QV909889.D	Injection Date:	01/30/20
Instrument ID:	QVOA9	Injection Time:	14:36
Sequence:	Y0B1216	Lab Sample ID:	Y0B1216-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	51.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.75	PASS
173	Less than 2% of 174	1.05	PASS
174	50 - 100% of 95	70.2	PASS
175	5 - 9% of 174	7.56	PASS
176	95 - 101% of 174	97.9	PASS
177	5 - 9% of 176	5.89	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Lab File ID:	V5406456.D	Injection Date:	12/22/19
Instrument ID:	VOA No. 5	Injection Time:	15:44
Sequence:	Y9L3016	Lab Sample ID:	Y9L3016-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.8	PASS
75	30 - 60% of 95	48.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.48	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	59.8	PASS
175	5 - 9% of 174	7.33	PASS
176	95 - 101% of 174	97.3	PASS
177	5 - 9% of 176	6.61	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B0615
Instrument: VOA No. 5
Calibration: YL90031

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0B0615-TUN1	V5407295.D	02/06/20 09:18
Calibration Check	Y0B0615-CCV1	V5407296.D	02/06/20 09:50
LCS	BB00232-BS1	V5407297.D	02/06/20 10:28
LCS Dup	BB00232-BSD1	V5407298.D	02/06/20 10:53
Blank	BB00232-BLK1	V5407299.D	02/06/20 11:18
Blank	BB00232-BLK2	V5407300.D	02/06/20 11:43
SB-1 (0-2)	20B0093-01	V5407306.D	02/06/20 14:15
SB-1 (11-13)	20B0093-02	V5407307.D	02/06/20 14:40
SB-3 (0-2)	20B0093-03	V5407308.D	02/06/20 15:05
SB-3 (13-15)	20B0093-05	V5407309.D	02/06/20 15:31
SB-4 (0-2)	20B0093-06	V5407310.D	02/06/20 15:56
SB-4 (13-15)	20B0093-07	V5407311.D	02/06/20 16:21
SB-4 (0-2)	BB00232-MS1	V5407316.D	02/06/20 18:27
SB-4 (0-2)	BB00232-MSD1	V5407317.D	02/06/20 18:52

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0B0703	Instrument:	QVOA9
		Calibration:	YB00013

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0B0703-TUN1	QV910063.D	02/07/20 00:12
Calibration Check	Y0B0703-CCV1	QV910064.D	02/07/20 00:39
LCS	BB00136-BS1	QV910065.D	02/07/20 01:06
LCS Dup	BB00136-BSD1	QV910066.D	02/07/20 01:33
Blank	BB00136-BLK1	QV910068.D	02/07/20 02:26
Trip Blank	20B0093-04	QV910070.D	02/07/20 03:20

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0B1216	Instrument:	QVOA9
		Calibration:	YB00013

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0B1216-TUN1	QV909889.D	01/30/20 14:36
Cal Standard	Y0B1216-CAL1	QV909891.D	01/30/20 15:29
Cal Standard	Y0B1216-CAL2	QV909892.D	01/30/20 15:56
Cal Standard	Y0B1216-CAL3	QV909893.D	01/30/20 16:23
Cal Standard	Y0B1216-CAL4	QV909894.D	01/30/20 16:50
Cal Standard	Y0B1216-CAL5	QV909895.D	01/30/20 17:16
Cal Standard	Y0B1216-CAL6	QV909896.D	01/30/20 17:43
Cal Standard	Y0B1216-CAL7	QV909897.D	01/30/20 18:10
Cal Standard	Y0B1216-CAL8	QV909898.D	01/30/20 18:36
Cal Standard	Y0B1216-CAL9	QV909899.D	01/30/20 19:03
Secondary Cal Check	Y0B1216-SCV1	QV909902.D	01/30/20 20:23

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y9L3016
Instrument: VOA No. 5
Calibration: YL90031

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9L3016-TUN1	V5406456.D	12/22/19 15:44
Cal Standard	Y9L3016-CAL1	V5406457.D	12/22/19 16:10
Cal Standard	Y9L3016-CAL2	V5406458.D	12/22/19 16:35
Cal Standard	Y9L3016-CAL3	V5406459.D	12/22/19 17:00
Cal Standard	Y9L3016-CAL4	V5406460.D	12/22/19 17:26
Cal Standard	Y9L3016-CAL5	V5406461.D	12/22/19 17:51
Cal Standard	Y9L3016-CAL6	V5406462.D	12/22/19 18:16
Secondary Cal Check	Y9L3016-SCV1	V5406466.D	12/22/19 19:57

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

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093
Client: Roux Associates Project: 3475.00014000 Lafayette
Sequence: Y0B0615 Instrument: VOA No. 5
Calibration: YL90031

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B0615-CCV1)			Lab File ID: V5407296.D			Analyzed: 02/06/20 09:50			
ISTD: Fluorobenzene	562365	5.739				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	2036727	8.768				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	902270	11.742				50 - 200		+/-0.17	
LCS (BB00232-BS1)			Lab File ID: V5407297.D			Analyzed: 02/06/20 10:28			
ISTD: Fluorobenzene	564424	5.739	562365	5.739	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2059555	8.768	2036727	8.768	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	915680	11.742	902270	11.742	101	50 - 200	0.0000	+/-0.17	
LCS Dup (BB00232-BSD1)			Lab File ID: V5407298.D			Analyzed: 02/06/20 10:53			
ISTD: Fluorobenzene	572568	5.742	562365	5.739	102	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	2080519	8.771	2036727	8.768	102	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	912762	11.742	902270	11.742	101	50 - 200	0.0000	+/-0.17	
Blank (BB00232-BLK1)			Lab File ID: V5407299.D			Analyzed: 02/06/20 11:18			
ISTD: Fluorobenzene	562666	5.742	562365	5.739	100	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	2057454	8.771	2036727	8.768	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	890873	11.742	902270	11.742	99	50 - 200	0.0000	+/-0.17	
Blank (BB00232-BLK2)			Lab File ID: V5407300.D			Analyzed: 02/06/20 11:43			
ISTD: Fluorobenzene	540894	5.739	562365	5.739	96	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1965078	8.768	2036727	8.768	96	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	853205	11.742	902270	11.742	95	50 - 200	0.0000	+/-0.17	
SB-1 (0-2) (20B0093-01)			Lab File ID: V5407306.D			Analyzed: 02/06/20 14:15			
ISTD: Fluorobenzene	585660	5.739	562365	5.739	104	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2172814	8.771	2036727	8.768	107	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	926710	11.742	902270	11.742	103	50 - 200	0.0000	+/-0.17	
SB-1 (11-13) (20B0093-02)			Lab File ID: V5407307.D			Analyzed: 02/06/20 14:40			
ISTD: Fluorobenzene	575143	5.739	562365	5.739	102	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2079707	8.771	2036727	8.768	102	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	892148	11.742	902270	11.742	99	50 - 200	0.0000	+/-0.17	
SB-3 (0-2) (20B0093-03)			Lab File ID: V5407308.D			Analyzed: 02/06/20 15:05			
ISTD: Fluorobenzene	586717	5.739	562365	5.739	104	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2129758	8.771	2036727	8.768	105	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	914762	11.742	902270	11.742	101	50 - 200	0.0000	+/-0.17	
SB-3 (13-15) (20B0093-05)			Lab File ID: V5407309.D			Analyzed: 02/06/20 15:31			
ISTD: Fluorobenzene	574697	5.742	562365	5.739	102	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	2066473	8.771	2036727	8.768	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	844437	11.742	902270	11.742	94	50 - 200	0.0000	+/-0.17	

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

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093
Client: Roux Associates Project: 3475.00014000 Lafayette
Sequence: Y0B0615 Instrument: VOA No. 5
Calibration: YL90031

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SB-4 (0-2) (20B0093-06)			Lab File ID: V5407310.D			Analyzed: 02/06/20 15:56			
ISTD: Fluorobenzene	557902	5.743	562365	5.739	99	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	2062050	8.771	2036727	8.768	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	902957	11.742	902270	11.742	100	50 - 200	0.0000	+/-0.17	
SB-4 (13-15) (20B0093-07)			Lab File ID: V5407311.D			Analyzed: 02/06/20 16:21			
ISTD: Fluorobenzene	576340	5.742	562365	5.739	102	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	2090412	8.771	2036727	8.768	103	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	905095	11.742	902270	11.742	100	50 - 200	0.0000	+/-0.17	
Matrix Spike (BB00232-MS1)			Lab File ID: V5407316.D			Analyzed: 02/06/20 18:27			
ISTD: Fluorobenzene	550721	5.743	562365	5.739	98	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	2053846	8.771	2036727	8.768	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	909845	11.742	902270	11.742	101	50 - 200	0.0000	+/-0.17	
Matrix Spike Dup (BB00232-MSD1)			Lab File ID: V5407317.D			Analyzed: 02/06/20 18:52			
ISTD: Fluorobenzene	558862	5.743	562365	5.739	99	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	2089343	8.771	2036727	8.768	103	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	923524	11.742	902270	11.742	102	50 - 200	0.0000	+/-0.17	

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

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093
Client: Roux Associates Project: 3475.00014000 Lafayette
Sequence: Y0B0703 Instrument: QVOA9
Calibration: YB00013

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B0703-CCV1)			Lab File ID: QV910064.D			Analyzed: 02/07/20 00:39			
ISTD: Fluorobenzene	65155	5.787				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	284123	8.838				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	93727	11.826				50 - 200		+/-0.17	
LCS (BB00136-BS1)			Lab File ID: QV910065.D			Analyzed: 02/07/20 01:06			
ISTD: Fluorobenzene	66350	5.784	65155	5.787	102	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	290827	8.838	284123	8.838	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	100682	11.829	93727	11.826	107	50 - 200	0.0030	+/-0.17	
LCS Dup (BB00136-BSD1)			Lab File ID: QV910066.D			Analyzed: 02/07/20 01:33			
ISTD: Fluorobenzene	66375	5.787	65155	5.787	102	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	287873	8.838	284123	8.838	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	101602	11.832	93727	11.826	108	50 - 200	0.0060	+/-0.17	
Blank (BB00136-BLK1)			Lab File ID: QV910068.D			Analyzed: 02/07/20 02:26			
ISTD: Fluorobenzene	72028	5.787	65155	5.787	111	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	307766	8.835	284123	8.838	108	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	92140	11.831	93727	11.826	98	50 - 200	0.0050	+/-0.17	
Trip Blank (20B0093-04)			Lab File ID: QV910070.D			Analyzed: 02/07/20 03:20			
ISTD: Fluorobenzene	69789	5.784	65155	5.787	107	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	299195	8.838	284123	8.838	105	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	90279	11.829	93727	11.826	96	50 - 200	0.0030	+/-0.17	

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

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093
Client: Roux Associates Project: 3475.00014000 Lafayette
Sequence: Y0B1216 Instrument: QVOA9
Calibration: YB00013

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y0B1216-CAL1)			Lab File ID: QV909891.D			Analyzed: 01/30/20 15:29			
ISTD: Fluorobenzene	118324	5.79	121466	5.787	97	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	493007	8.844	495786	8.841	99	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	151511	11.831	157595	11.834	96	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y0B1216-CAL2)			Lab File ID: QV909892.D			Analyzed: 01/30/20 15:56			
ISTD: Fluorobenzene	128526	5.79	121466	5.787	106	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	505644	8.838	495786	8.841	102	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	152998	11.834	157595	11.834	97	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0B1216-CAL3)			Lab File ID: QV909893.D			Analyzed: 01/30/20 16:23			
ISTD: Fluorobenzene	125080	5.787	121466	5.787	103	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	518477	8.835	495786	8.841	105	50 - 200	-0.0060	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	156303	11.832	157595	11.834	99	50 - 200	-0.0020	+/-0.17	
Cal Standard (Y0B1216-CAL4)			Lab File ID: QV909894.D			Analyzed: 01/30/20 16:50			
ISTD: Fluorobenzene	121466	5.787	121466	5.787	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	495786	8.841	495786	8.841	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	157595	11.834	157595	11.834	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0B1216-CAL5)			Lab File ID: QV909895.D			Analyzed: 01/30/20 17:16			
ISTD: Fluorobenzene	116005	5.787	121466	5.787	96	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	488326	8.841	495786	8.841	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	156286	11.832	157595	11.834	99	50 - 200	-0.0020	+/-0.17	
Cal Standard (Y0B1216-CAL6)			Lab File ID: QV909896.D			Analyzed: 01/30/20 17:43			
ISTD: Fluorobenzene	119863	5.787	121466	5.787	99	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	502029	8.838	495786	8.841	101	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	156053	11.831	157595	11.834	99	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y0B1216-CAL7)			Lab File ID: QV909897.D			Analyzed: 01/30/20 18:10			
ISTD: Fluorobenzene	119464	5.79	121466	5.787	98	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	500006	8.838	495786	8.841	101	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	161091	11.831	157595	11.834	102	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y0B1216-CAL8)			Lab File ID: QV909898.D			Analyzed: 01/30/20 18:36			
ISTD: Fluorobenzene	134598	5.787	121466	5.787	111	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	538052	8.844	495786	8.841	109	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	165007	11.834	157595	11.834	105	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0B1216-CAL9)			Lab File ID: QV909899.D			Analyzed: 01/30/20 19:03			
ISTD: Fluorobenzene	140496	5.79	121466	5.787	116	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	558001	8.844	495786	8.841	113	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	163866	11.834	157595	11.834	104	50 - 200	0.0000	+/-0.17	

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

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B1216
Instrument: QVOA9
Calibration: YB00013

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (Y0B1216-SCV1)			Lab File ID: QV909902.D			Analyzed: 01/30/20 20:23			
ISTD: Fluorobenzene	155663	5.787	121466	5.787	128	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	625105	8.838	495786	8.841	126	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	203520	11.829	157595	11.834	129	50 - 200	-0.0050	+/-0.17	

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

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093
Client: Roux Associates Project: 3475.00014000 Lafayette
Sequence: Y9L3016 Instrument: VOA No. 5
Calibration: YL90031

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y9L3016-CAL1)			Lab File ID: V5406457.D			Analyzed: 12/22/19 16:10			
ISTD: Fluorobenzene	879368	5.743	880862	5.746	100	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	2890024	8.771	2919961	8.771	99	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	1216239	11.742	1227089	11.742	99	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9L3016-CAL2)			Lab File ID: V5406458.D			Analyzed: 12/22/19 16:35			
ISTD: Fluorobenzene	870607	5.746	880862	5.746	99	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2877345	8.771	2919961	8.771	99	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	1220416	11.742	1227089	11.742	99	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9L3016-CAL3)			Lab File ID: V5406459.D			Analyzed: 12/22/19 17:00			
ISTD: Fluorobenzene	883224	5.743	880862	5.746	100	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	2936011	8.771	2919961	8.771	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	1241633	11.742	1227089	11.742	101	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9L3016-CAL4)			Lab File ID: V5406460.D			Analyzed: 12/22/19 17:26			
ISTD: Fluorobenzene	880862	5.746	880862	5.746	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2919961	8.771	2919961	8.771	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	1227089	11.742	1227089	11.742	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9L3016-CAL5)			Lab File ID: V5406461.D			Analyzed: 12/22/19 17:51			
ISTD: Fluorobenzene	907328	5.746	880862	5.746	103	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2989660	8.771	2919961	8.771	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	1234374	11.742	1227089	11.742	101	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9L3016-CAL6)			Lab File ID: V5406462.D			Analyzed: 12/22/19 18:16			
ISTD: Fluorobenzene	896498	5.746	880862	5.746	102	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2933569	8.775	2919961	8.771	100	50 - 200	0.0040	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	1207683	11.742	1227089	11.742	98	50 - 200	0.0000	+/-0.17	
Secondary Cal Check (Y9L3016-SCV1)			Lab File ID: V5406466.D			Analyzed: 12/22/19 19:57			
ISTD: Fluorobenzene	873481	5.746	880862	5.746	99	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	2920129	8.775	2919961	8.771	100	50 - 200	0.0040	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	1234840	11.742	1227089	11.742	101	50 - 200	0.0000	+/-0.17	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

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
SB-1 (0-2)	02/04/20 09:40	02/04/20 19:35	02/06/20 07:30	1.91	14.00	02/06/20 14:15	2.19	14.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/06/20 07:30	1.89	14.00	02/06/20 14:40	2.19	14.00	
SB-3 (0-2)	02/04/20 12:45	02/04/20 19:35	02/06/20 07:30	1.78	14.00	02/06/20 15:05	2.10	14.00	
Trip Blank	02/04/20 00:00	02/04/20 19:35	02/05/20 19:08	1.80	14.00	02/07/20 03:20	3.14	14.00	
SB-3 (13-15)	02/04/20 13:25	02/04/20 19:35	02/06/20 07:30	1.75	14.00	02/06/20 15:31	2.09	14.00	
SB-4 (0-2)	02/04/20 14:50	02/04/20 19:35	02/06/20 07:30	1.69	14.00	02/06/20 15:56	2.05	14.00	
SB-4 (13-15)	02/04/20 15:00	02/04/20 19:35	02/06/20 07:30	1.69	14.00	02/06/20 16:21	2.06	14.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Water **Instrument:** QVOA9

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.20	0.50	ug/L
1,1,2-Trichloroethane	0.20	0.50	ug/L
1,1-Dichloroethane	0.20	0.50	ug/L
1,1-Dichloroethylene	0.20	0.50	ug/L
1,2,3-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

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Water **Instrument:** QVOA9

Analyte	LOD	LOQ	Units
Chloromethane	0.20	0.50	ug/L
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
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

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** VOA No. 5

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	2.5	5.0	ug/kg
1,1,1-Trichloroethane	2.5	5.0	ug/kg
1,1,2,2-Tetrachloroethane	2.5	5.0	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2.5	5.0	ug/kg
1,1,2-Trichloroethane	2.5	5.0	ug/kg
1,1-Dichloroethane	2.5	5.0	ug/kg
1,1-Dichloroethylene	2.5	5.0	ug/kg
1,2,3-Trichlorobenzene	2.5	5.0	ug/kg
1,2,3-Trichloropropane	2.5	5.0	ug/kg
1,2,4-Trichlorobenzene	2.5	5.0	ug/kg
1,2,4-Trimethylbenzene	2.5	5.0	ug/kg
1,2-Dibromo-3-chloropropane	2.5	5.0	ug/kg
1,2-Dibromoethane	2.5	5.0	ug/kg
1,2-Dichlorobenzene	2.5	5.0	ug/kg
1,2-Dichloroethane	2.5	5.0	ug/kg
1,2-Dichloropropane	2.5	5.0	ug/kg
1,3,5-Trimethylbenzene	2.5	5.0	ug/kg
1,3-Dichlorobenzene	2.5	5.0	ug/kg
1,4-Dichlorobenzene	2.5	5.0	ug/kg
1,4-Dioxane	50	100	ug/kg
2-Butanone	2.5	5.0	ug/kg
2-Hexanone	2.5	5.0	ug/kg
4-Methyl-2-pentanone	2.5	5.0	ug/kg
Acetone	5.0	10	ug/kg
Acrolein	5.0	10	ug/kg
Acrylonitrile	2.5	5.0	ug/kg
Benzene	2.5	5.0	ug/kg
Bromochloromethane	2.5	5.0	ug/kg
Bromodichloromethane	2.5	5.0	ug/kg
Bromoform	2.5	5.0	ug/kg
Bromomethane	2.5	5.0	ug/kg
Carbon disulfide	2.5	5.0	ug/kg
Carbon tetrachloride	2.5	5.0	ug/kg
Chlorobenzene	2.5	5.0	ug/kg
Chloroethane	2.5	5.0	ug/kg
Chloroform	2.5	5.0	ug/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** VOA No. 5

Analyte	LOD	LOQ	Units
Chloromethane	2.5	5.0	ug/kg
cis-1,2-Dichloroethylene	2.5	5.0	ug/kg
cis-1,3-Dichloropropylene	2.5	5.0	ug/kg
Cyclohexane	2.5	5.0	ug/kg
Dibromochloromethane	2.5	5.0	ug/kg
Dibromomethane	2.5	5.0	ug/kg
Dichlorodifluoromethane	2.5	5.0	ug/kg
Ethyl Benzene	2.5	5.0	ug/kg
Hexachlorobutadiene	2.5	5.0	ug/kg
Isopropylbenzene	2.5	5.0	ug/kg
Methyl acetate	2.5	5.0	ug/kg
Methyl tert-butyl ether (MTBE)	2.5	5.0	ug/kg
Methylcyclohexane	2.5	5.0	ug/kg
Methylene chloride	5.0	10	ug/kg
n-Butylbenzene	2.5	5.0	ug/kg
n-Propylbenzene	2.5	5.0	ug/kg
o-Xylene	2.5	5.0	ug/kg
p- & m- Xylenes	5.0	10	ug/kg
p-Isopropyltoluene	2.5	5.0	ug/kg
sec-Butylbenzene	2.5	5.0	ug/kg
Styrene	2.5	5.0	ug/kg
tert-Butyl alcohol (TBA)	2.5	5.0	ug/kg
tert-Butylbenzene	2.5	5.0	ug/kg
Tetrachloroethylene	2.5	5.0	ug/kg
Toluene	2.5	5.0	ug/kg
trans-1,2-Dichloroethylene	2.5	5.0	ug/kg
trans-1,3-Dichloropropylene	2.5	5.0	ug/kg
trans-1,4-dichloro-2-butene	2.5	5.0	ug/kg
Trichloroethylene	2.5	5.0	ug/kg
Trichlorofluoromethane	2.5	5.0	ug/kg
Vinyl Chloride	2.5	5.0	ug/kg
Xylenes, Total	7.5	15	ug/kg

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID: V5407306.D

Sampled: 02/04/20 09:40 Prepared: 02/06/20 07:30 Analyzed: 02/06/20 14:15

Solids: 81.01 Preparation: EPA 5035A Initial/Final: 5.97 g / 5 ml

Batch: BB00232 Sequence: Y0B0615 Calibration: YL90031 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	5.2	U
71-55-6	1,1,1-Trichloroethane	1	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	5.2	U
79-00-5	1,1,2-Trichloroethane	1	5.2	U
75-34-3	1,1-Dichloroethane	1	5.2	U
75-35-4	1,1-Dichloroethylene	1	5.2	U
87-61-6	1,2,3-Trichlorobenzene	1	5.2	U
96-18-4	1,2,3-Trichloropropane	1	5.2	U
120-82-1	1,2,4-Trichlorobenzene	1	5.2	U
95-63-6	1,2,4-Trimethylbenzene	1	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1	5.2	U
106-93-4	1,2-Dibromoethane	1	5.2	U
95-50-1	1,2-Dichlorobenzene	1	5.2	U
107-06-2	1,2-Dichloroethane	1	5.2	U
78-87-5	1,2-Dichloropropane	1	5.2	U
108-67-8	1,3,5-Trimethylbenzene	1	5.2	U
541-73-1	1,3-Dichlorobenzene	1	5.2	U
106-46-7	1,4-Dichlorobenzene	1	5.2	U
123-91-1	1,4-Dioxane	1	100	U
78-93-3	2-Butanone	1	5.2	U
591-78-6	2-Hexanone	1	5.2	U
108-10-1	4-Methyl-2-pentanone	1	5.2	U
67-64-1	Acetone	1	10	U
107-02-8	Acrolein	1	10	U
107-13-1	Acrylonitrile	1	5.2	U
71-43-2	Benzene	1	5.2	U
74-97-5	Bromochloromethane	1	5.2	U
75-27-4	Bromodichloromethane	1	5.2	U
75-25-2	Bromoform	1	5.2	U
74-83-9	Bromomethane	1	5.2	U
75-15-0	Carbon disulfide	1	5.2	U
56-23-5	Carbon tetrachloride	1	5.2	U
108-90-7	Chlorobenzene	1	5.2	U
75-00-3	Chloroethane	1	5.2	U
67-66-3	Chloroform	1	5.2	U
74-87-3	Chloromethane	1	5.2	U
156-59-2	cis-1,2-Dichloroethylene	1	5.2	U
10061-01-5	cis-1,3-Dichloropropylene	1	5.2	U
110-82-7	Cyclohexane	1	5.2	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-1 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-01	File ID:	V5407306.D
Sampled:	02/04/20 09:40	Prepared:	02/06/20 07:30	Analyzed:	02/06/20 14:15
Solids:	81.01	Preparation:	EPA 5035A	Initial/Final:	5.97 g / 5 ml
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
124-48-1	Dibromochloromethane	1	5.2	U
74-95-3	Dibromomethane	1	5.2	U
75-71-8	Dichlorodifluoromethane	1	5.2	U
100-41-4	Ethyl Benzene	1	5.2	U
87-68-3	Hexachlorobutadiene	1	5.2	U
98-82-8	Isopropylbenzene	1	5.2	U
79-20-9	Methyl acetate	1	5.2	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	5.2	U
108-87-2	Methylcyclohexane	1	5.2	U
75-09-2	Methylene chloride	1	8.4	J
104-51-8	n-Butylbenzene	1	5.2	U
103-65-1	n-Propylbenzene	1	5.2	U
95-47-6	o-Xylene	1	5.2	U
179601-23-1	p- & m- Xylenes	1	10	U
99-87-6	p-Isopropyltoluene	1	5.2	U
135-98-8	sec-Butylbenzene	1	5.2	U
100-42-5	Styrene	1	5.2	U
75-65-0	tert-Butyl alcohol (TBA)	1	26	U
98-06-6	tert-Butylbenzene	1	5.2	U
127-18-4	Tetrachloroethylene	1	5.2	U
108-88-3	Toluene	1	5.2	U
156-60-5	trans-1,2-Dichloroethylene	1	5.2	U
10061-02-6	trans-1,3-Dichloropropylene	1	5.2	U
110-57-6	trans-1,4-dichloro-2-butene	1	5.2	U
79-01-6	Trichloroethylene	1	5.2	U
75-69-4	Trichlorofluoromethane	1	5.2	U
75-01-4	Vinyl Chloride	1	5.2	U
1330-20-7	Xylenes, Total	1	16	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.3	105	77 - 125	
SURR: Toluene-d8	50.0	46.7	93.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	49.7	99.3	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	585660	5.739	562365	5.739	
ISTD: Chlorobenzene-d5	2172814	8.771	2036727	8.768	
ISTD: 1,2-Dichlorobenzene-d4	926710	11.742	902270	11.742	

* Values outside of QC limits

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407306.D
Acq On : 6 Feb 2020 2:15 pm
Operator : SS
Sample : 20B0093-01
Misc : QBV5020620A 8260 COMP 5.97G A
ALS Vial : 12 Sample Multiplier: 1

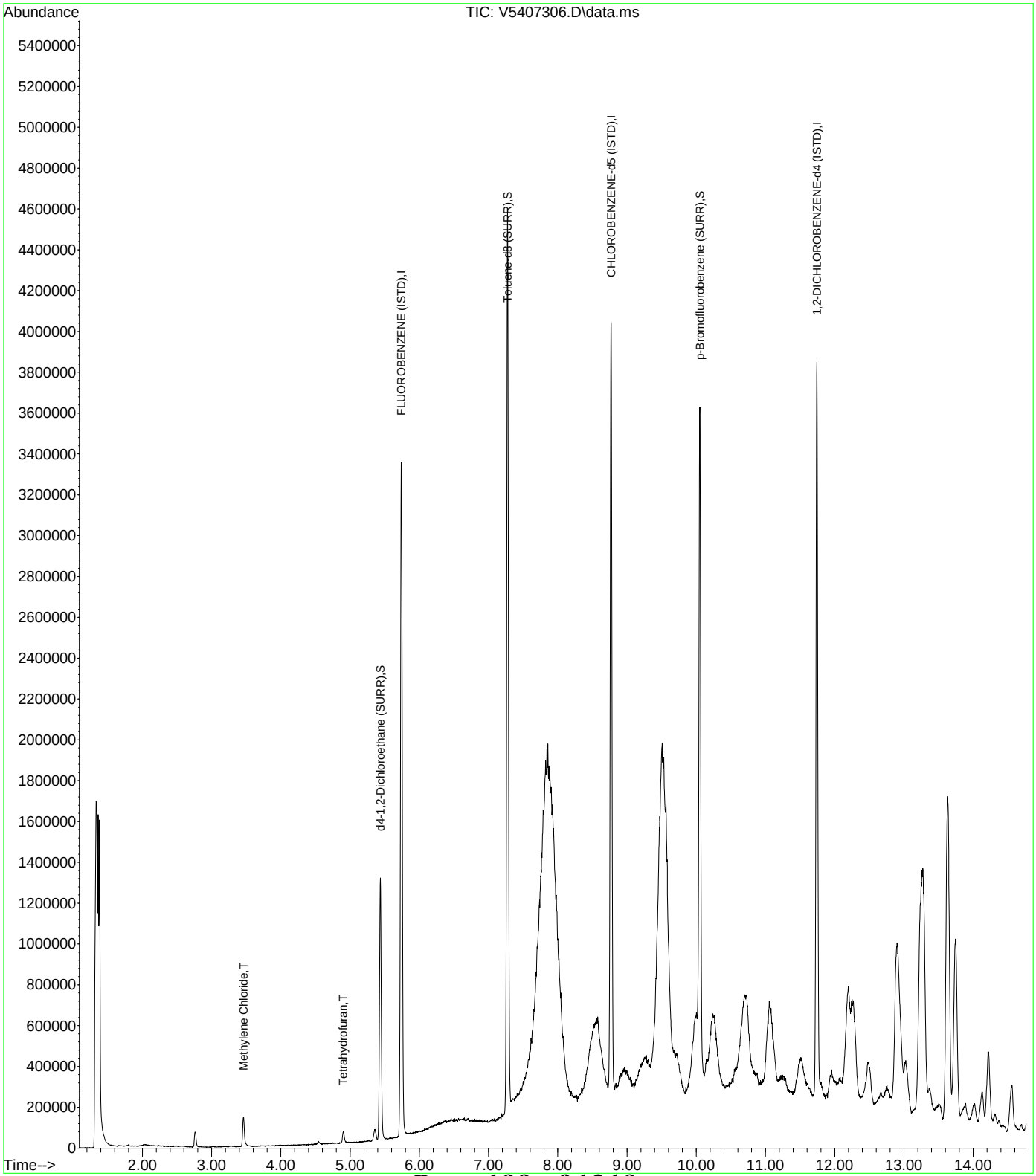
Quant Time: Feb 06 16:05:13 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

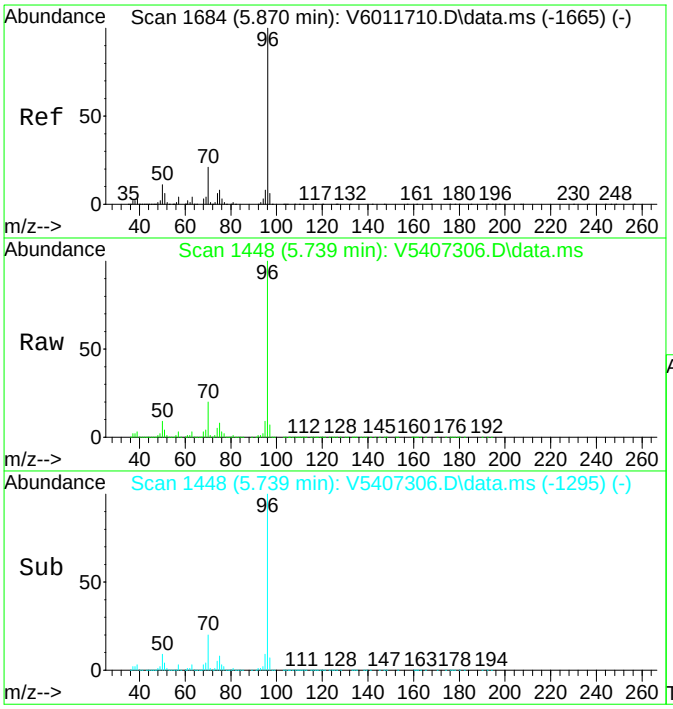
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.739	70	585660	50.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2172814	50.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	926710	50.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.437	65	899373	52.29	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.58%			
53) Toluene-d8 (SURR)	7.273	98	2986250	46.68	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.36%			
73) p-Bromofluorobenzene (...	10.051	95	1276189	49.67	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.34%			
Target Compounds						Qvalue
18) Methylene Chloride	3.460	49	73501	8.09	ppb	85
29) Tetrahydrofuran	4.897	42	29390	10.57	ppb	85

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407306.D
Acq On : 6 Feb 2020 2:15 pm
Operator : SS
Sample : 20B0093-01
Misc : QBV5020620A 8260 COMP 5.97G A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 06 16:05:13 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

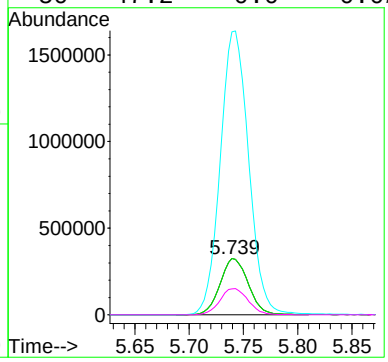


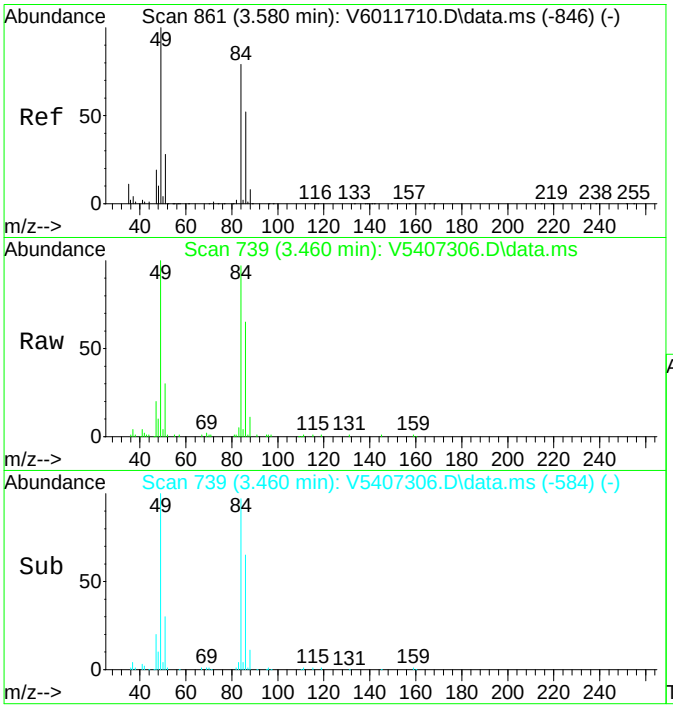


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.739 min Scan# 1448
Delta R.T. -0.007 min
Lab File: V5407306.D
Acq: 6 Feb 2020 2:15 pm

Tgt Ion: 70 Resp: 585660

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	509.9	318.4	661.4
50	47.2	0.0	0.0#

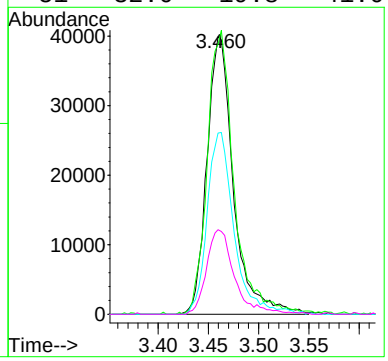


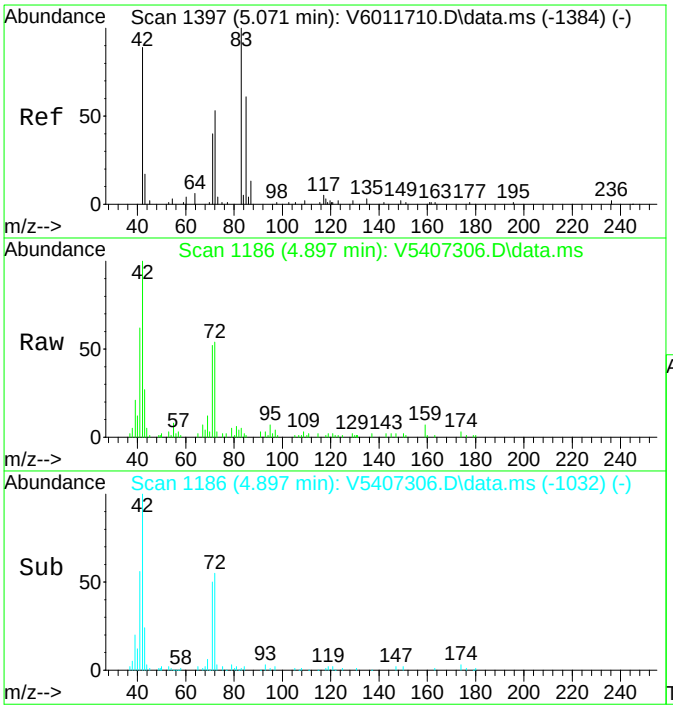


#18
Methylene Chloride
Concen: 8.09 ppb
RT: 3.460 min Scan# 739
Delta R.T. -0.003 min
Lab File: V5407306.D
Acq: 6 Feb 2020 2:15 pm

Tgt Ion: 49 Resp: 73501

Ion	Ratio	Lower	Upper
49	100		
84	103.0	55.8	115.8
86	66.3	35.1	72.9
51	32.0	19.8	41.0

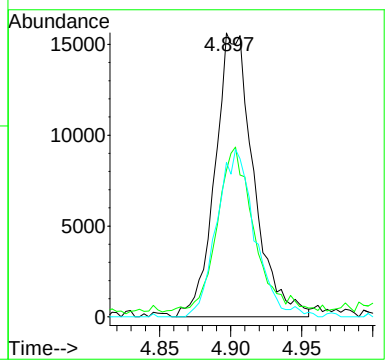


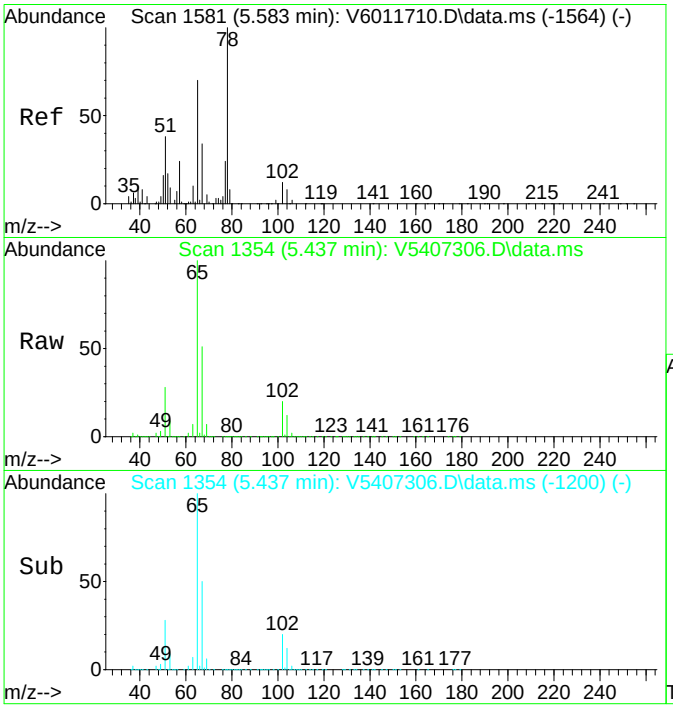


#29
Tetrahydrofuran
Concen: 10.57 ppb
RT: 4.897 min Scan# 1186
Delta R.T. -0.006 min
Lab File: V5407306.D
Acq: 6 Feb 2020 2:15 pm

Tgt Ion: 42 Resp: 29390

Ion	Ratio	Lower	Upper
42	100		
71	56.7	27.5	64.1
72	57.3	28.8	67.2

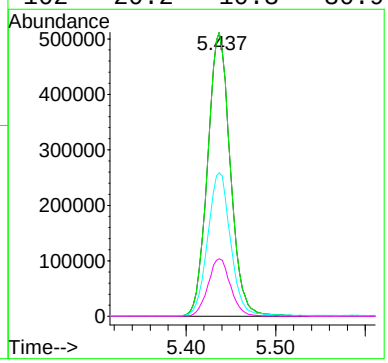


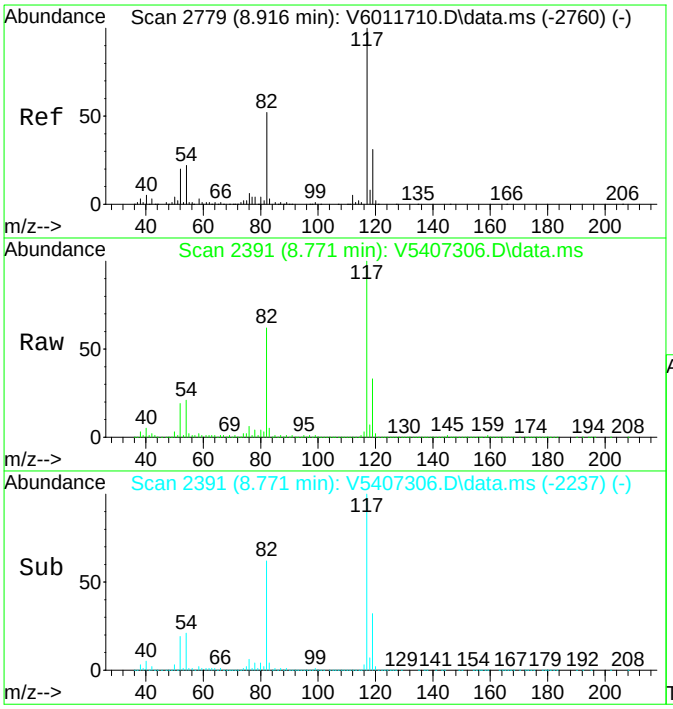


#35
d4-1,2-Dichloroethane (SURR)
Concen: 52.29 ppb
RT: 5.437 min Scan# 1354
Delta R.T. -0.006 min
Lab File: V5407306.D
Acq: 6 Feb 2020 2:15 pm

Tgt Ion: 65 Resp: 899373

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.4	34.2	71.0
102	20.2	10.3	30.9

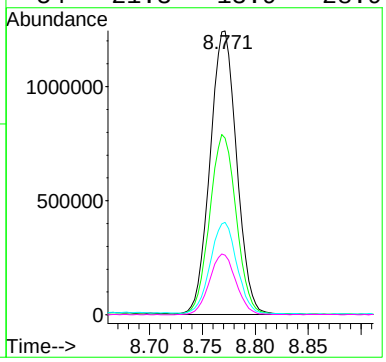


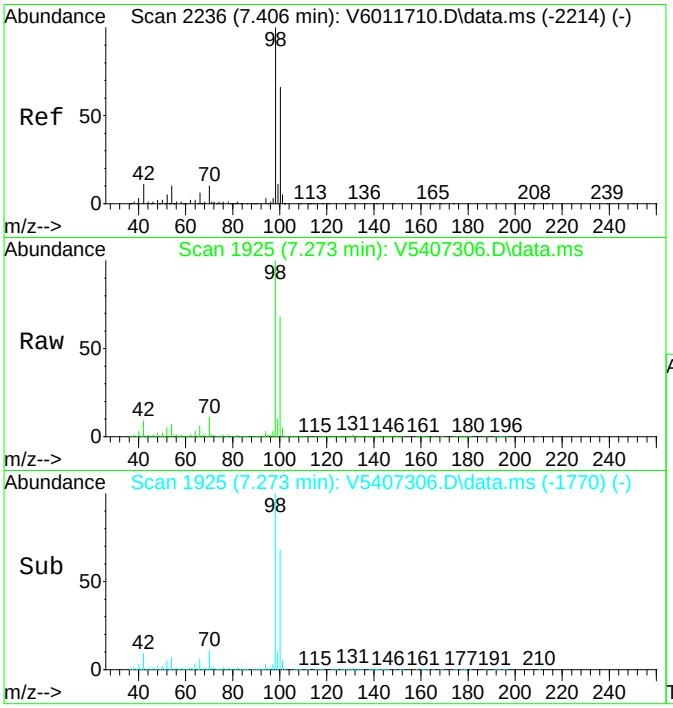


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.771 min Scan# 2391
Delta R.T. -0.004 min
Lab File: V5407306.D
Acq: 6 Feb 2020 2:15 pm

Tgt Ion:117 Resp: 2172814

Ion	Ratio	Lower	Upper
117	100		
82	63.3	38.3	79.5
119	32.1	20.9	43.3
54	21.3	13.9	28.9

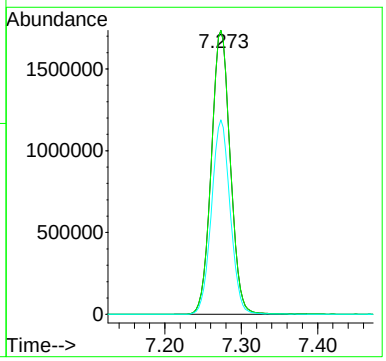


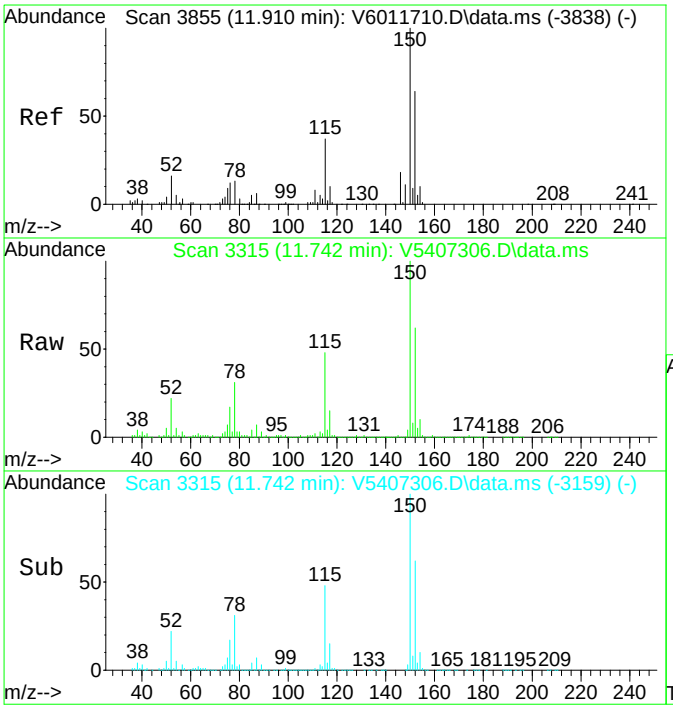


#53
Toluene-d8 (SURR)
Concen: 46.68 ppb
RT: 7.273 min Scan# 1925
Delta R.T. -0.003 min
Lab File: V5407306.D
Acq: 6 Feb 2020 2:15 pm

Tgt Ion: 98 Resp: 2986250

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	67.7	43.0	89.4

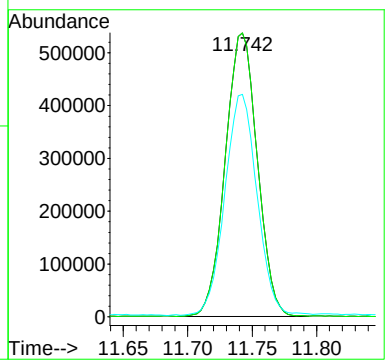


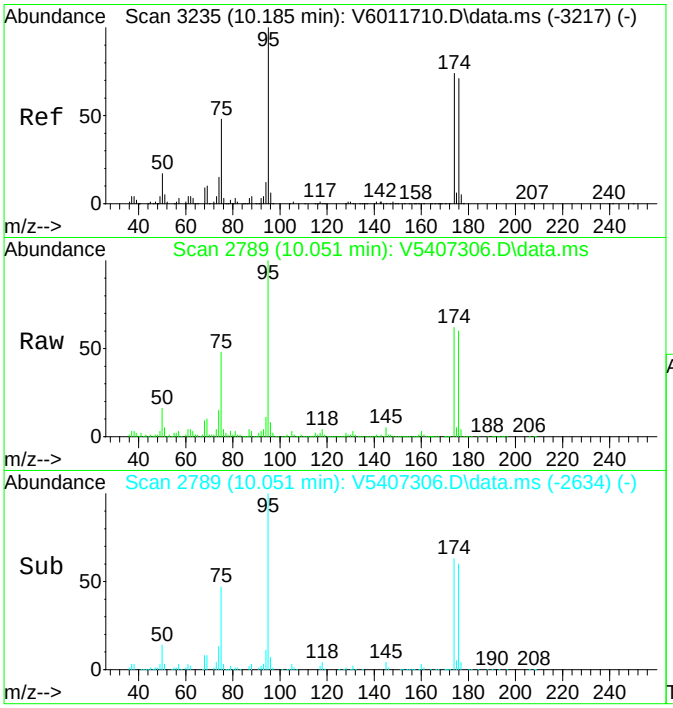


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.742 min Scan# 3315
Delta R.T. 0.000 min
Lab File: V5407306.D
Acq: 6 Feb 2020 2:15 pm

Tgt Ion:152 Resp: 926710

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	78.3	44.9	134.7

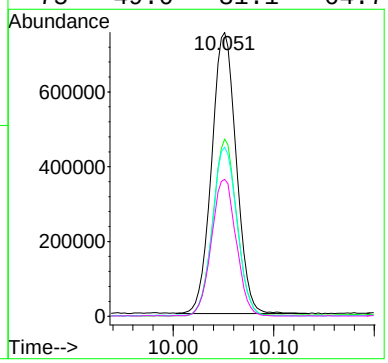




#73
p-Bromofluorobenzene (SURR)
Concen: 49.67 ppb
RT: 10.051 min Scan# 2789
Delta R.T. -0.003 min
Lab File: V5407306.D
Acq: 6 Feb 2020 2:15 pm

Tgt Ion: 95 Resp: 1276189

Ion	Ratio	Lower	Upper
95	100		
174	61.7	42.8	88.8
176	59.7	41.3	85.7
75	49.0	31.1	64.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID: V5407307.D

Sampled: 02/04/20 10:10 Prepared: 02/06/20 07:30 Analyzed: 02/06/20 14:40

Solids: 76.97 Preparation: EPA 5035A Initial/Final: 4.94 g / 5 ml

Batch: BB00232 Sequence: Y0B0615 Calibration: YL90031 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	6.6	U
71-55-6	1,1,1-Trichloroethane	1	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	1	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	6.6	U
79-00-5	1,1,2-Trichloroethane	1	6.6	U
75-34-3	1,1-Dichloroethane	1	6.6	U
75-35-4	1,1-Dichloroethylene	1	6.6	U
87-61-6	1,2,3-Trichlorobenzene	1	6.6	U
96-18-4	1,2,3-Trichloropropane	1	6.6	U
120-82-1	1,2,4-Trichlorobenzene	1	6.6	U
95-63-6	1,2,4-Trimethylbenzene	1	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	1	6.6	U
106-93-4	1,2-Dibromoethane	1	6.6	U
95-50-1	1,2-Dichlorobenzene	1	6.6	U
107-06-2	1,2-Dichloroethane	1	6.6	U
78-87-5	1,2-Dichloropropane	1	6.6	U
108-67-8	1,3,5-Trimethylbenzene	1	6.6	U
541-73-1	1,3-Dichlorobenzene	1	6.6	U
106-46-7	1,4-Dichlorobenzene	1	6.6	U
123-91-1	1,4-Dioxane	1	130	U
78-93-3	2-Butanone	1	13	
591-78-6	2-Hexanone	1	6.6	U
108-10-1	4-Methyl-2-pentanone	1	6.6	U
67-64-1	Acetone	1	62	
107-02-8	Acrolein	1	13	U
107-13-1	Acrylonitrile	1	6.6	U
71-43-2	Benzene	1	6.6	U
74-97-5	Bromochloromethane	1	6.6	U
75-27-4	Bromodichloromethane	1	6.6	U
75-25-2	Bromoform	1	6.6	U
74-83-9	Bromomethane	1	6.6	U
75-15-0	Carbon disulfide	1	3.8	J
56-23-5	Carbon tetrachloride	1	6.6	U
108-90-7	Chlorobenzene	1	6.6	U
75-00-3	Chloroethane	1	6.6	U
67-66-3	Chloroform	1	6.6	U
74-87-3	Chloromethane	1	6.6	U
156-59-2	cis-1,2-Dichloroethylene	1	6.6	U
10061-01-5	cis-1,3-Dichloropropylene	1	6.6	U
110-82-7	Cyclohexane	1	6.6	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-1 (11-13)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-02	File ID:	V5407307.D
Sampled:	02/04/20 10:10	Prepared:	02/06/20 07:30	Analyzed:	02/06/20 14:40
Solids:	76.97	Preparation:	EPA 5035A	Initial/Final:	4.94 g / 5 ml
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
124-48-1	Dibromochloromethane	1	6.6	U
74-95-3	Dibromomethane	1	6.6	U
75-71-8	Dichlorodifluoromethane	1	6.6	U
100-41-4	Ethyl Benzene	1	6.6	U
87-68-3	Hexachlorobutadiene	1	6.6	U
98-82-8	Isopropylbenzene	1	6.6	U
79-20-9	Methyl acetate	1	6.6	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	6.6	U
108-87-2	Methylcyclohexane	1	6.6	U
75-09-2	Methylene chloride	1	13	U
104-51-8	n-Butylbenzene	1	6.6	U
103-65-1	n-Propylbenzene	1	6.6	U
95-47-6	o-Xylene	1	6.6	U
179601-23-1	p- & m- Xylenes	1	13	U
99-87-6	p-Isopropyltoluene	1	6.6	U
135-98-8	sec-Butylbenzene	1	6.6	U
100-42-5	Styrene	1	6.6	U
75-65-0	tert-Butyl alcohol (TBA)	1	33	U
98-06-6	tert-Butylbenzene	1	6.6	U
127-18-4	Tetrachloroethylene	1	6.6	U
108-88-3	Toluene	1	6.6	U
156-60-5	trans-1,2-Dichloroethylene	1	6.6	U
10061-02-6	trans-1,3-Dichloropropylene	1	6.6	U
110-57-6	trans-1,4-dichloro-2-butene	1	6.6	U
79-01-6	Trichloroethylene	1	6.6	U
75-69-4	Trichlorofluoromethane	1	6.6	U
75-01-4	Vinyl Chloride	1	6.6	U
1330-20-7	Xylenes, Total	1	20	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.3	105	77 - 125	
SURR: Toluene-d8	50.0	47.2	94.3	85 - 120	
SURR: p-Bromofluorobenzene	50.0	48.6	97.2	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	575143	5.739	562365	5.739	
ISTD: Chlorobenzene-d5	2079707	8.771	2036727	8.768	
ISTD: 1,2-Dichlorobenzene-d4	892148	11.742	902270	11.742	

* Values outside of QC limits

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407307.D
Acq On : 6 Feb 2020 2:40 pm
Operator : SS
Sample : 20B0093-02
Misc : QBV5020620A 8260 COMP 4.94G A
ALS Vial : 13 Sample Multiplier: 1

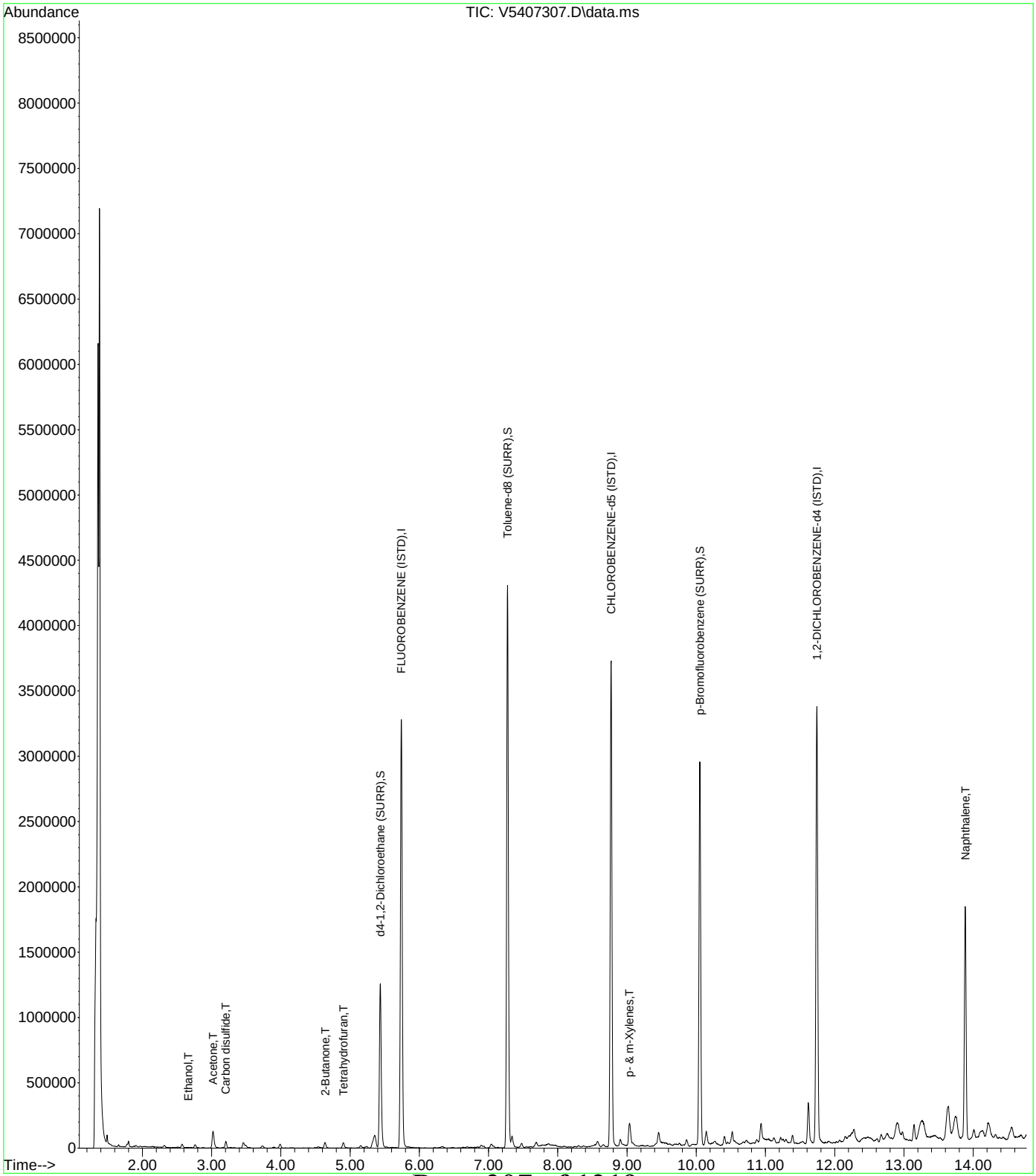
Quant Time: Feb 06 16:06:09 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

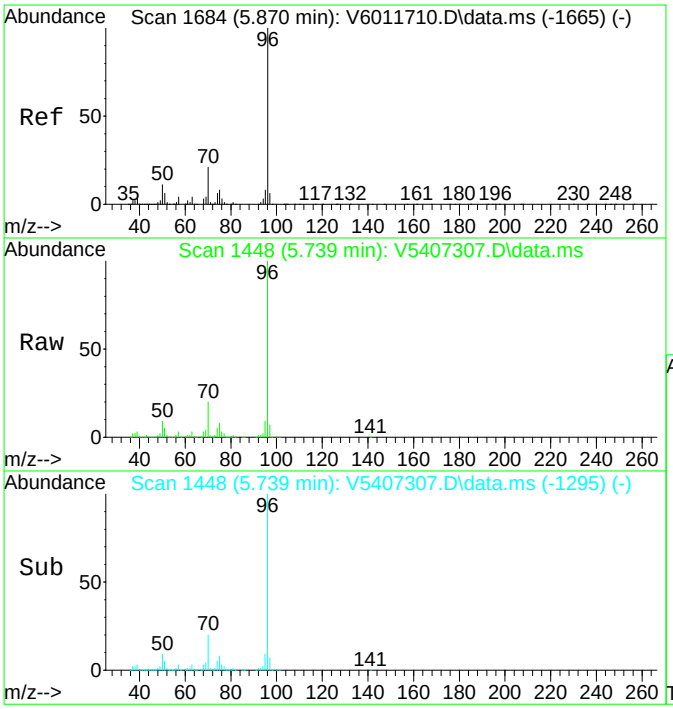
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.739	70	575143	50.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2079707	50.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	892148	50.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.437	65	883839	52.33	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.66%			
53) Toluene-d8 (SURR)	7.273	98	2887416	47.15	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.30%			
73) p-Bromofluorobenzene (...	10.051	95	1202523	48.62	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.24%			
Target Compounds						Qvalue
8) Ethanol	2.659	45	7494m	70.26	ppb	
12) Acetone	3.019	43	160979	47.40	ppb	99
16) Carbon disulfide	3.202	76	65289	2.89	ppb	100
27) 2-Butanone	4.643	72	14932	9.88	ppb	89
29) Tetrahydrofuran	4.903	42	20599	7.54	ppb	82
66) p- & m-Xylenes	9.035	91	119978	2.85	ppb	97
98) Naphthalene	13.887	128	1434697	38.38	ppb	100

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407307.D
Acq On : 6 Feb 2020 2:40 pm
Operator : SS
Sample : 20B0093-02
Misc : QBV5020620A 8260 COMP 4.94G A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 06 16:06:09 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

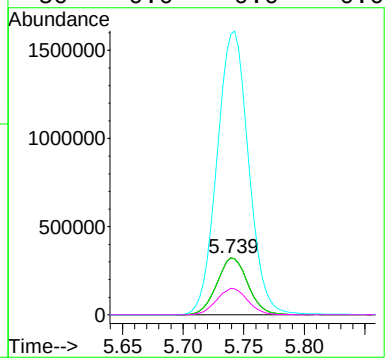


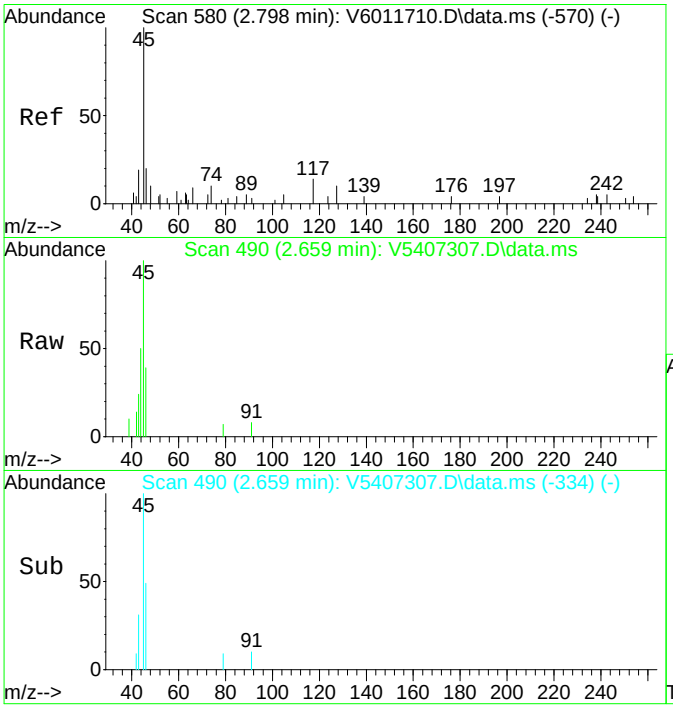


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.739 min Scan# 1448
Delta R.T. -0.007 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 70 Resp: 575143

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	508.4	318.4	661.4
50	0.0	0.0	0.0

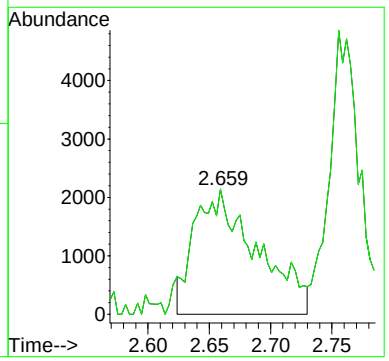


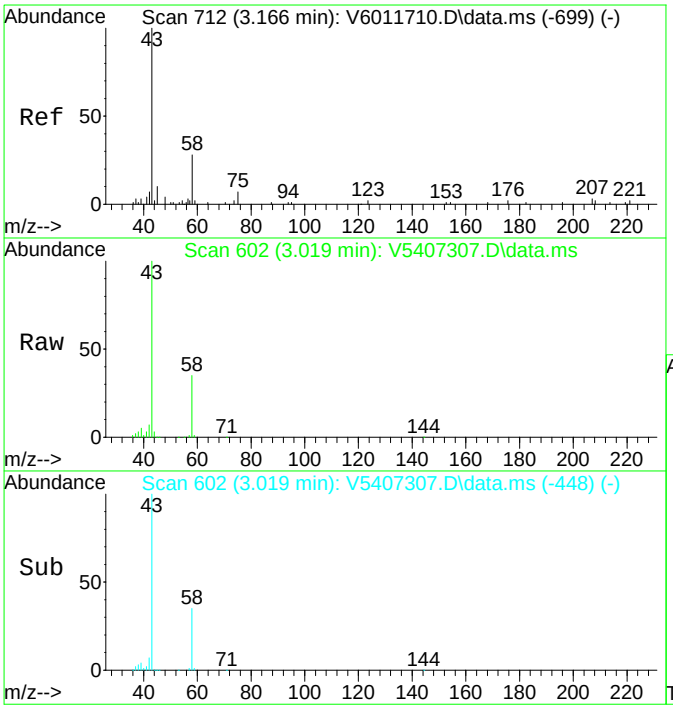


#8
Ethanol
Concen: 70.26 ppb m
RT: 2.659 min Scan# 490
Delta R.T. 0.003 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 45 Resp: 7494

Ion	Ratio	Lower	Upper
45	100		
45	31.1	50.0	150.0#

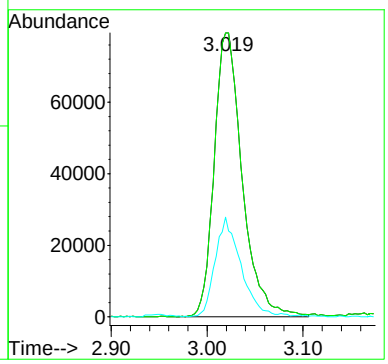


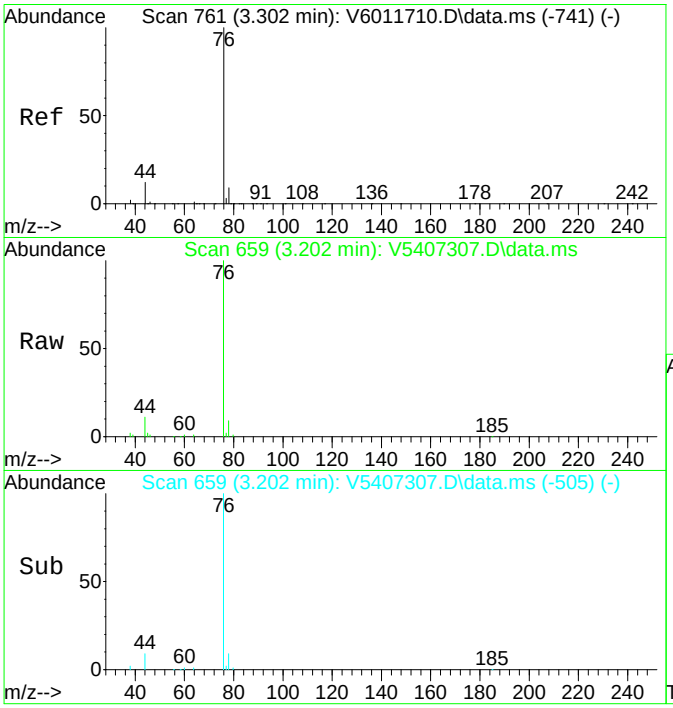


#12
Acetone
Concen: 47.40 ppb
RT: 3.019 min Scan# 602
Delta R.T. -0.003 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 43 Resp: 160979

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	32.1	15.3	45.9

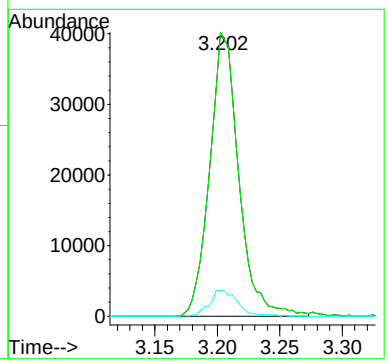


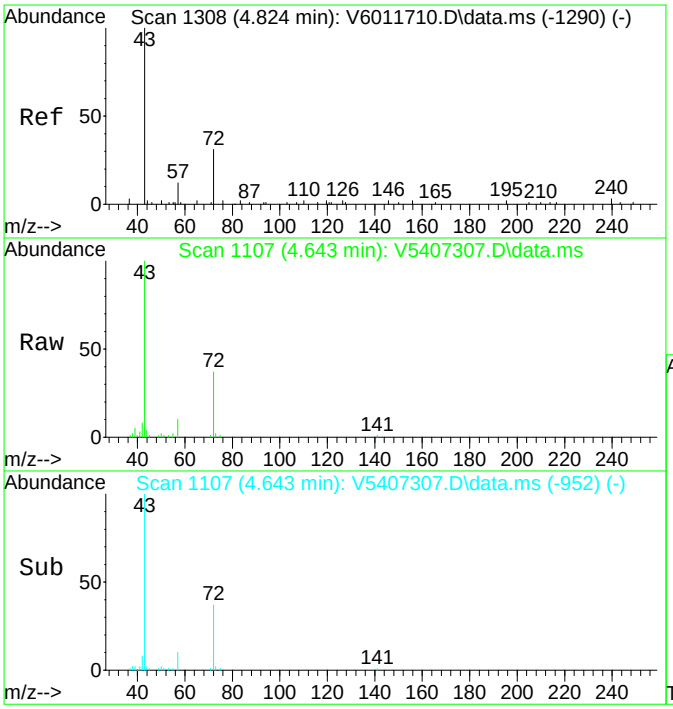


#16
Carbon disulfide
Concen: 2.89 ppb
RT: 3.202 min Scan# 659
Delta R.T. -0.004 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 76 Resp: 65289

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	9.0	4.5	13.7

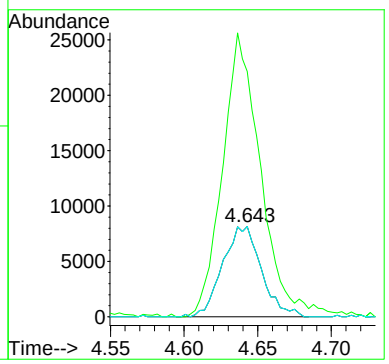


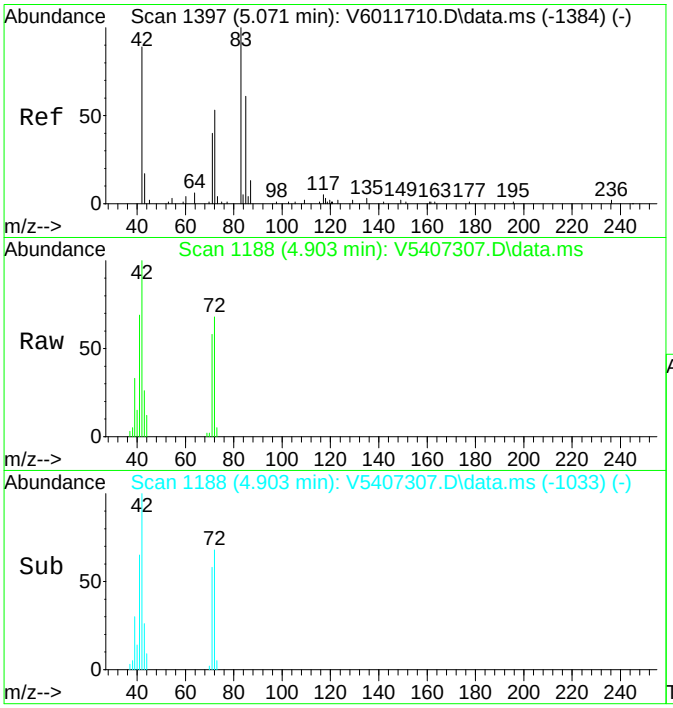


#27
2-Butanone
Concen: 9.88 ppb
RT: 4.643 min Scan# 1107
Delta R.T. -0.000 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 72 Resp: 14932

Ion	Ratio	Lower	Upper
72	100		
43	308.5	272.2	408.2
72	100.0	50.0	150.0

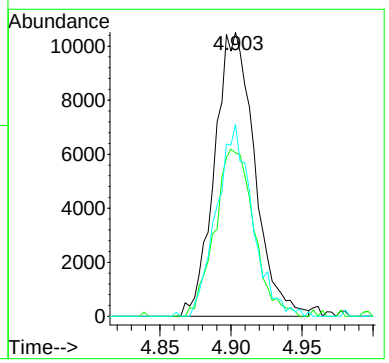


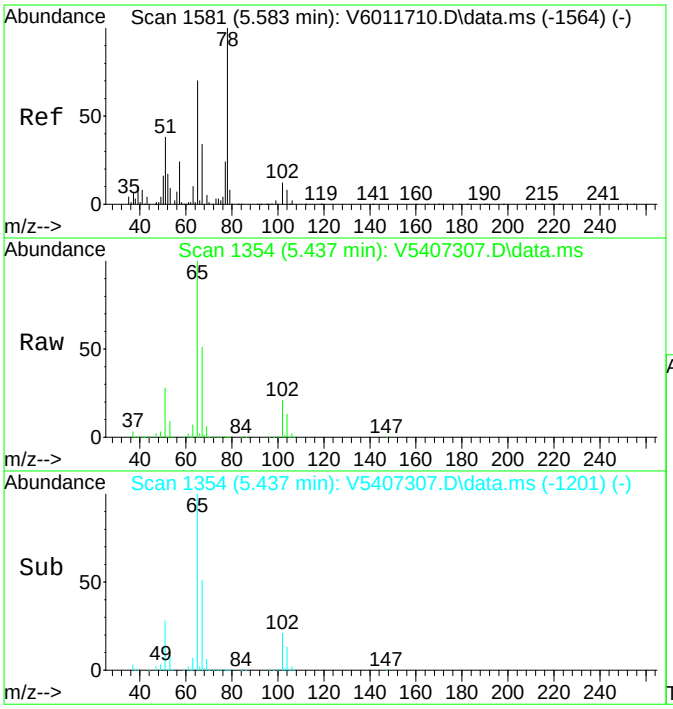


#29
Tetrahydrofuran
Concen: 7.54 ppb
RT: 4.903 min Scan# 1188
Delta R.T. -0.000 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 42 Resp: 20599

Ion	Ratio	Lower	Upper
42	100		
71	57.4	27.5	64.1
72	60.8	28.8	67.2

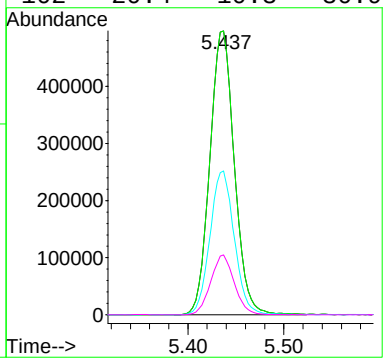


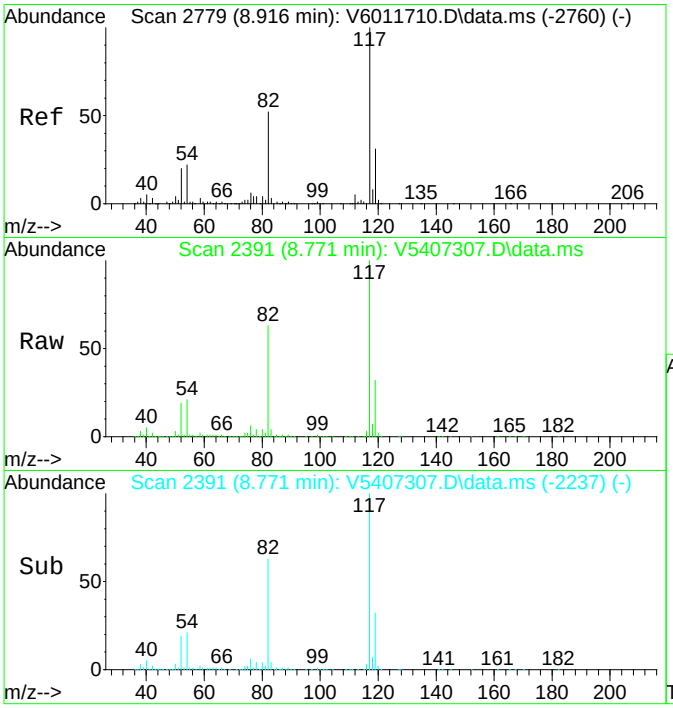


#35
d4-1,2-Dichloroethane (SURR)
Concen: 52.33 ppb
RT: 5.437 min Scan# 1354
Delta R.T. -0.007 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 65 Resp: 883839

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.5	34.2	71.0
102	20.4	10.3	30.9

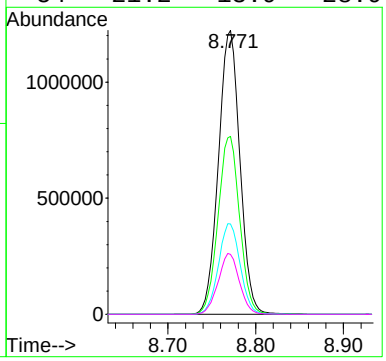


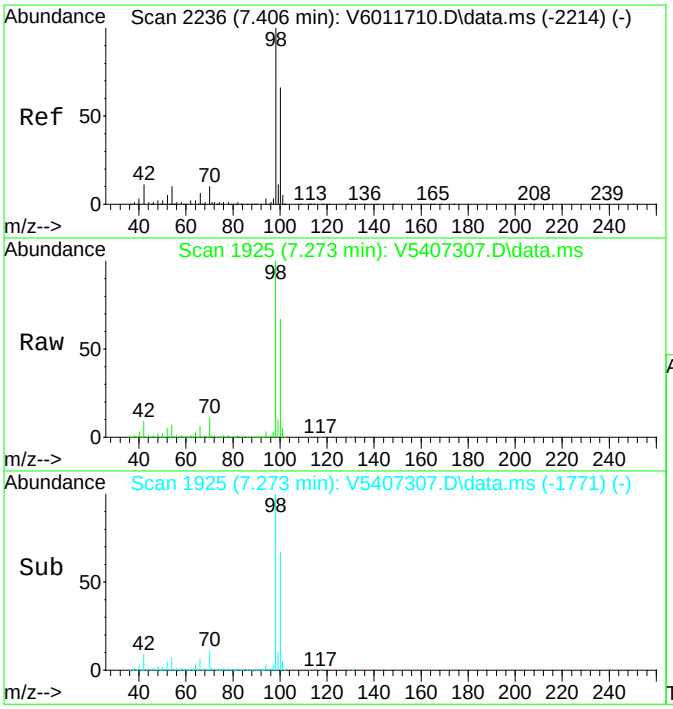


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.771 min Scan# 2391
Delta R.T. -0.004 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion:117 Resp: 2079707

Ion	Ratio	Lower	Upper
117	100		
82	63.1	38.3	79.5
119	32.3	20.9	43.3
54	21.2	13.9	28.9

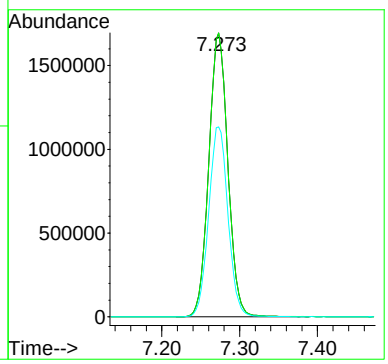


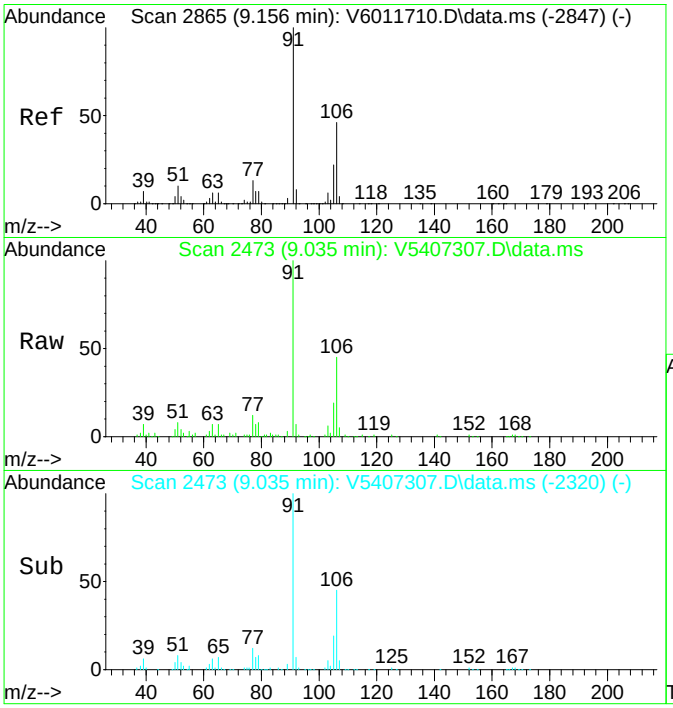


#53
Toluene-d8 (SURR)
Concen: 47.15 ppb
RT: 7.273 min Scan# 1925
Delta R.T. -0.003 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 98 Resp: 2887416

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	67.9	43.0	89.4

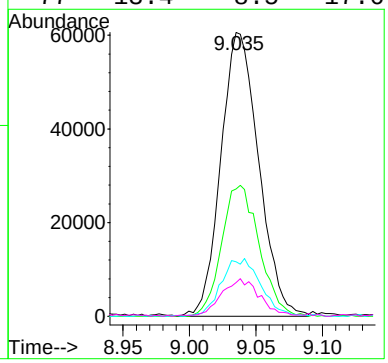


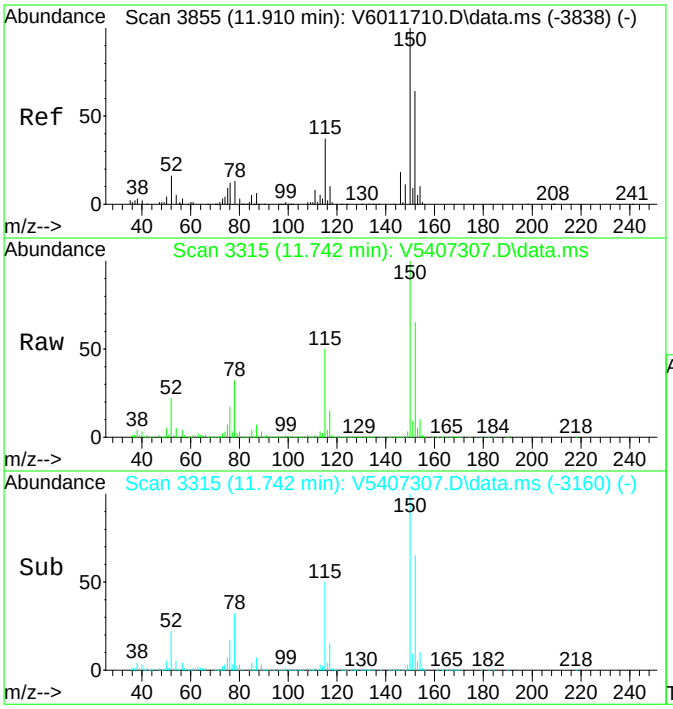


#66
p- & m-Xylenes
Concen: 2.85 ppb
RT: 9.035 min Scan# 2473
Delta R.T. -0.007 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 91 Resp: 119978

Ion	Ratio	Lower	Upper
91	100		
106	45.8	31.2	64.8
105	21.1	14.6	30.2
77	13.4	8.5	17.6

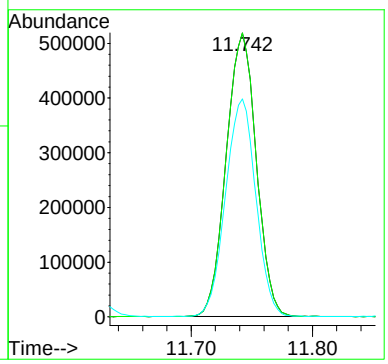


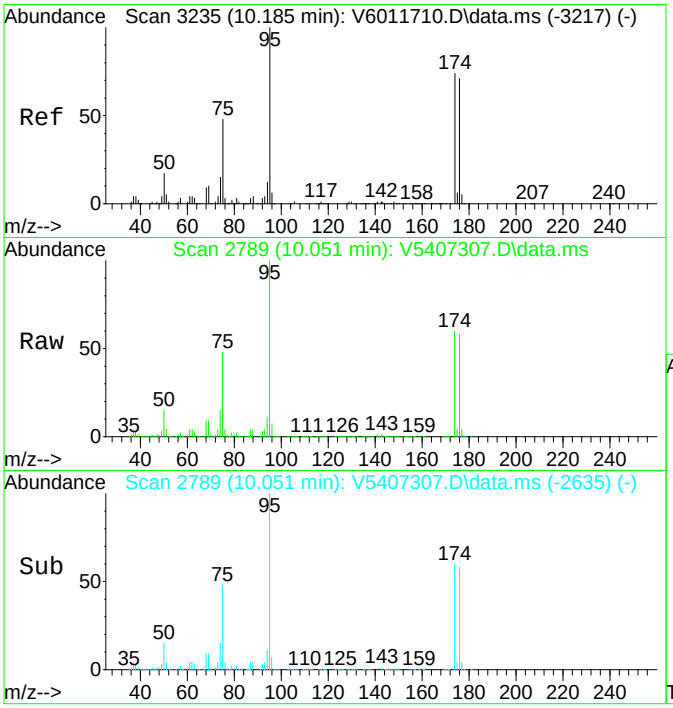


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.742 min Scan# 3315
Delta R.T. -0.000 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion:152 Resp: 892148

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	77.2	44.9	134.7

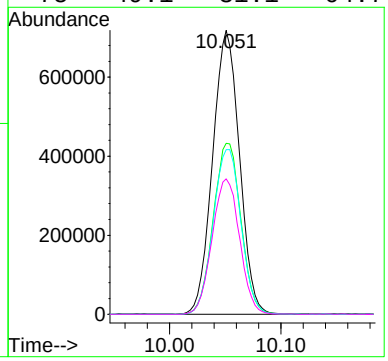


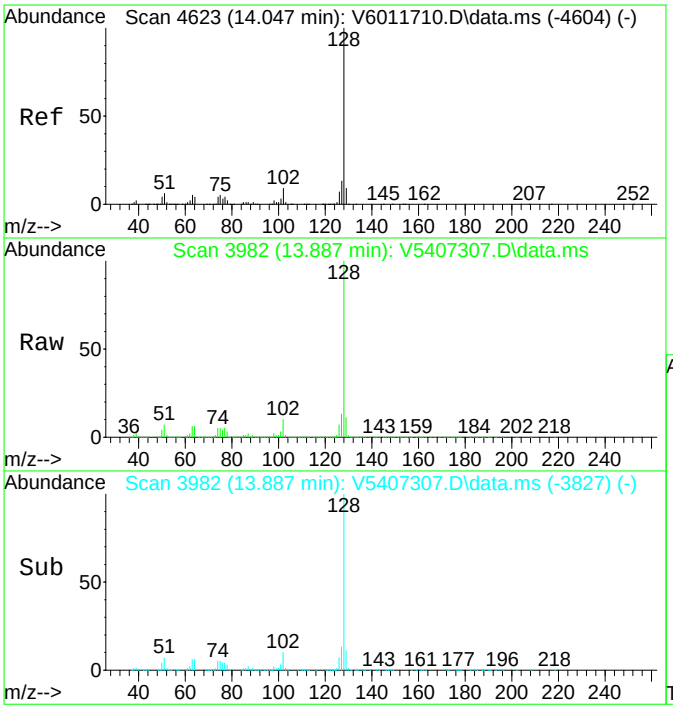


#73
p-Bromofluorobenzene (SURR)
Concen: 48.62 ppb
RT: 10.051 min Scan# 2789
Delta R.T. -0.003 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion: 95 Resp: 1202523

Ion	Ratio	Lower	Upper
95	100		
174	62.3	42.8	88.8
176	60.5	41.3	85.7
75	49.1	31.1	64.7

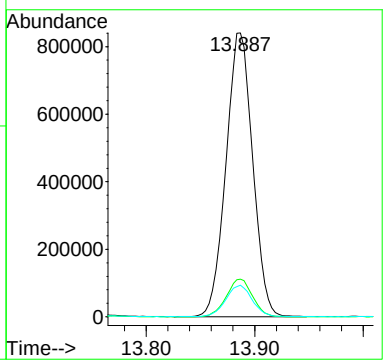




#98
Naphthalene
Concen: 38.38 ppb
RT: 13.887 min Scan# 3982
Delta R.T. -0.000 min
Lab File: V5407307.D
Acq: 6 Feb 2020 2:40 pm

Tgt Ion:128 Resp: 1434697

Ion	Ratio	Lower	Upper
128	100		
127	13.0	8.5	17.6
129	11.1	7.0	14.6



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID: V5407308.D

Sampled: 02/04/20 12:45 Prepared: 02/06/20 07:30 Analyzed: 02/06/20 15:05

Solids: 87.50 Preparation: EPA 5035A Initial/Final: 6.02 g / 5 ml

Batch: BB00232 Sequence: Y0B0615 Calibration: YL90031 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	4.7	U
71-55-6	1,1,1-Trichloroethane	1	4.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1	4.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	4.7	U
79-00-5	1,1,2-Trichloroethane	1	4.7	U
75-34-3	1,1-Dichloroethane	1	4.7	U
75-35-4	1,1-Dichloroethylene	1	4.7	U
87-61-6	1,2,3-Trichlorobenzene	1	4.7	U
96-18-4	1,2,3-Trichloropropane	1	4.7	U
120-82-1	1,2,4-Trichlorobenzene	1	4.7	U
95-63-6	1,2,4-Trimethylbenzene	1	4.7	U
96-12-8	1,2-Dibromo-3-chloropropane	1	4.7	U
106-93-4	1,2-Dibromoethane	1	4.7	U
95-50-1	1,2-Dichlorobenzene	1	4.7	U
107-06-2	1,2-Dichloroethane	1	4.7	U
78-87-5	1,2-Dichloropropane	1	4.7	U
108-67-8	1,3,5-Trimethylbenzene	1	4.7	U
541-73-1	1,3-Dichlorobenzene	1	4.7	U
106-46-7	1,4-Dichlorobenzene	1	4.7	U
123-91-1	1,4-Dioxane	1	95	U
78-93-3	2-Butanone	1	4.7	U
591-78-6	2-Hexanone	1	4.7	U
108-10-1	4-Methyl-2-pentanone	1	4.7	U
67-64-1	Acetone	1	9.5	U
107-02-8	Acrolein	1	9.5	U
107-13-1	Acrylonitrile	1	4.7	U
71-43-2	Benzene	1	4.7	U
74-97-5	Bromochloromethane	1	4.7	U
75-27-4	Bromodichloromethane	1	4.7	U
75-25-2	Bromoform	1	4.7	U
74-83-9	Bromomethane	1	4.7	U
75-15-0	Carbon disulfide	1	4.7	U
56-23-5	Carbon tetrachloride	1	4.7	U
108-90-7	Chlorobenzene	1	4.7	U
75-00-3	Chloroethane	1	4.7	U
67-66-3	Chloroform	1	4.7	U
74-87-3	Chloromethane	1	4.7	U
156-59-2	cis-1,2-Dichloroethylene	1	4.7	U
10061-01-5	cis-1,3-Dichloropropylene	1	4.7	U
110-82-7	Cyclohexane	1	4.7	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID: V5407308.D

Sampled: 02/04/20 12:45 Prepared: 02/06/20 07:30 Analyzed: 02/06/20 15:05

Solids: 87.50 Preparation: EPA 5035A Initial/Final: 6.02 g / 5 ml

Batch: BB00232 Sequence: Y0B0615 Calibration: YL90031 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
124-48-1	Dibromochloromethane	1	4.7	U
74-95-3	Dibromomethane	1	4.7	U
75-71-8	Dichlorodifluoromethane	1	4.7	U
100-41-4	Ethyl Benzene	1	4.7	U
87-68-3	Hexachlorobutadiene	1	4.7	U
98-82-8	Isopropylbenzene	1	4.7	U
79-20-9	Methyl acetate	1	4.7	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	4.7	U
108-87-2	Methylcyclohexane	1	4.7	U
75-09-2	Methylene chloride	1	9.5	U
104-51-8	n-Butylbenzene	1	4.7	U
103-65-1	n-Propylbenzene	1	4.7	U
95-47-6	o-Xylene	1	4.7	U
179601-23-1	p- & m- Xylenes	1	9.5	U
99-87-6	p-Isopropyltoluene	1	4.7	U
135-98-8	sec-Butylbenzene	1	4.7	U
100-42-5	Styrene	1	4.7	U
75-65-0	tert-Butyl alcohol (TBA)	1	24	U
98-06-6	tert-Butylbenzene	1	4.7	U
127-18-4	Tetrachloroethylene	1	4.7	U
108-88-3	Toluene	1	4.7	U
156-60-5	trans-1,2-Dichloroethylene	1	4.7	U
10061-02-6	trans-1,3-Dichloropropylene	1	4.7	U
110-57-6	trans-1,4-dichloro-2-butene	1	4.7	U
79-01-6	Trichloroethylene	1	4.7	U
75-69-4	Trichlorofluoromethane	1	4.7	U
75-01-4	Vinyl Chloride	1	4.7	U
1330-20-7	Xylenes, Total	1	14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.5	103	77 - 125	
SURR: Toluene-d8	50.0	47.0	94.1	85 - 120	
SURR: p-Bromofluorobenzene	50.0	48.5	97.0	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	586717	5.739	562365	5.739	
ISTD: Chlorobenzene-d5	2129758	8.771	2036727	8.768	
ISTD: 1,2-Dichlorobenzene-d4	914762	11.742	902270	11.742	

* Values outside of QC limits

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407308.D
Acq On : 6 Feb 2020 3:05 pm
Operator : SS
Sample : 20B0093-03
Misc : QBV5020620A 8260 COMP 6.02G A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 06 16:07:01 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.739	70	586717	50.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2129758	50.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	914762	50.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.437	65	886991	51.48	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.96%			
53) Toluene-d8 (SURR)	7.273	98	2950760	47.05	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.10%			
73) p-Bromofluorobenzene (...	10.051	95	1230585	48.52	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.04%			
Target Compounds						Qvalue
18) Methylene Chloride	3.460	49	44939	4.94	ppb	84
29) Tetrahydrofuran	4.903	42	39387	14.14	ppb	80

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

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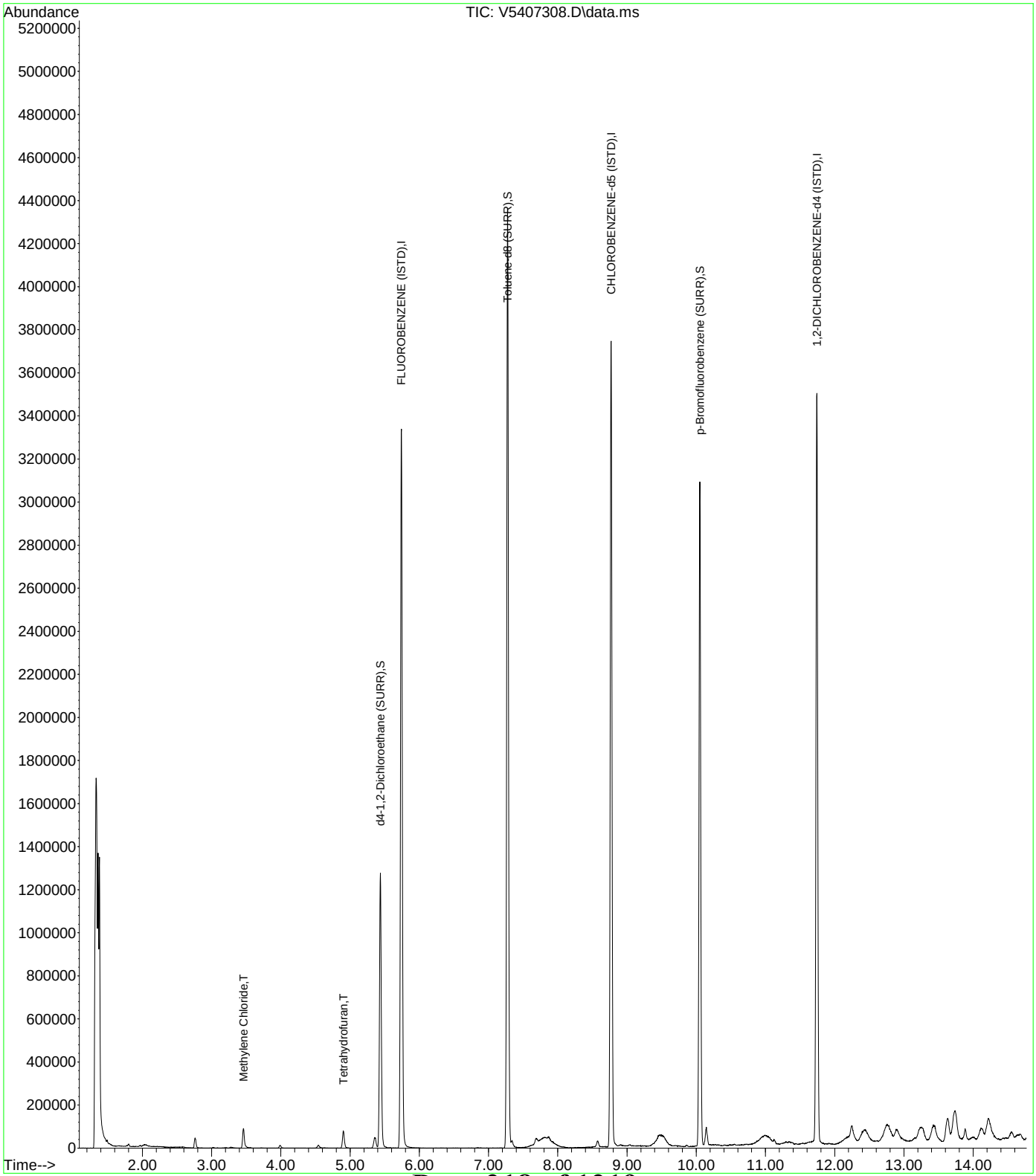
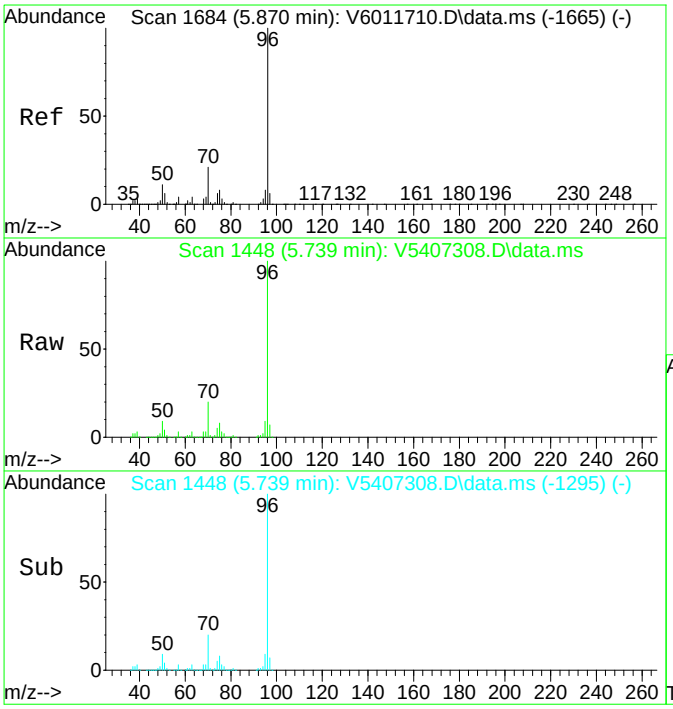
Data File : V5407308.D
Acq On : 6 Feb 2020 3:05 pm
Operator : SS
Sample : 20B0093-03
Misc : QBV5020620A 8260 COMP 6.02G A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 06 16:07:01 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

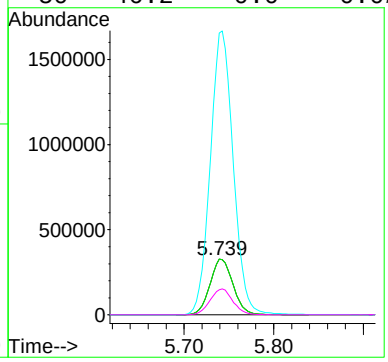


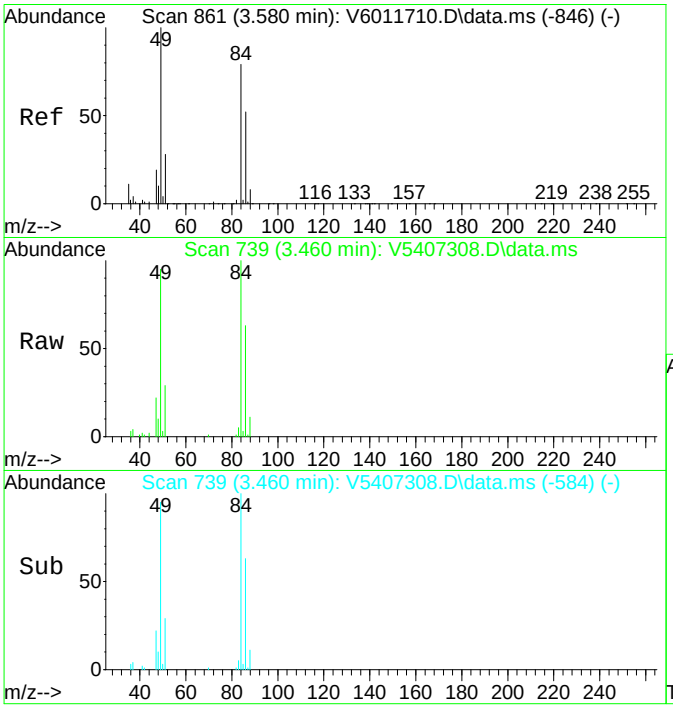


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.739 min Scan# 1448
Delta R.T. -0.007 min
Lab File: V5407308.D
Acq: 6 Feb 2020 3:05 pm

Tgt Ion: 70 Resp: 586717

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	506.2	318.4	661.4
50	46.2	0.0	0.0#

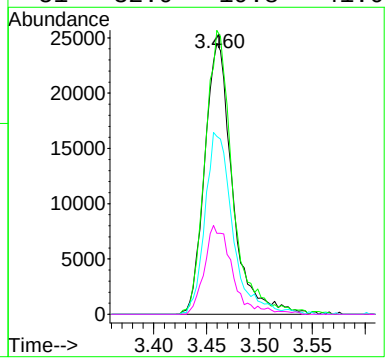


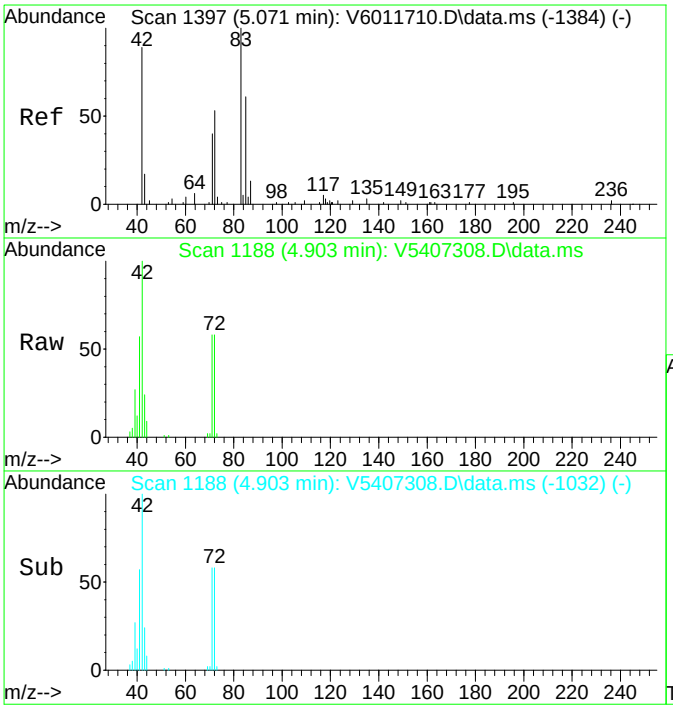


#18
Methylene Chloride
Concen: 4.94 ppb
RT: 3.460 min Scan# 739
Delta R.T. -0.003 min
Lab File: V5407308.D
Acq: 6 Feb 2020 3:05 pm

Tgt Ion: 49 Resp: 44939

Ion	Ratio	Lower	Upper
49	100		
84	103.3	55.8	115.8
86	66.4	35.1	72.9
51	32.9	19.8	41.0

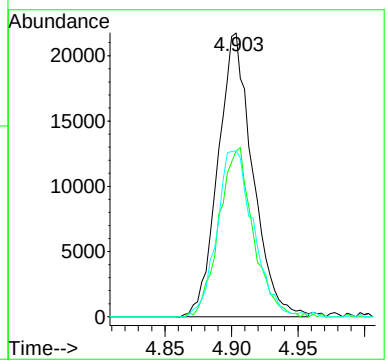


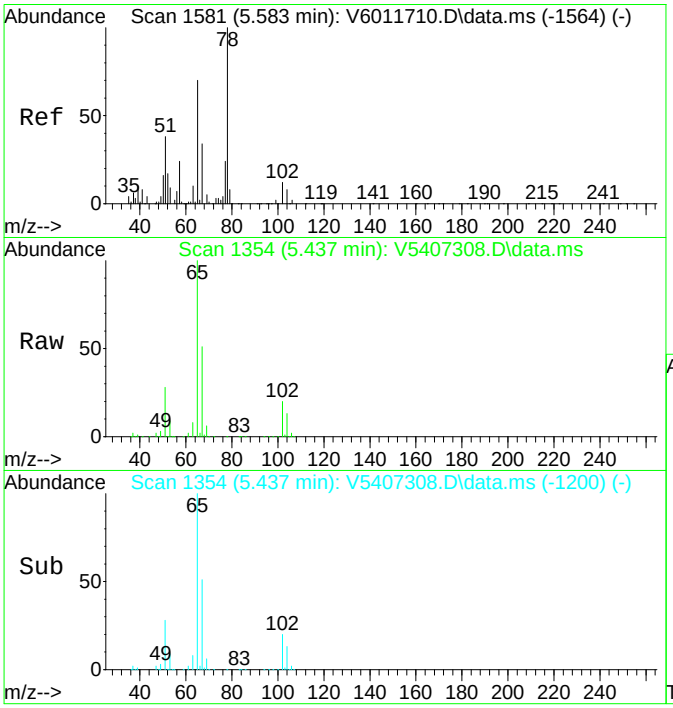


#29
Tetrahydrofuran
Concen: 14.14 ppb
RT: 4.903 min Scan# 1188
Delta R.T. 0.000 min
Lab File: V5407308.D
Acq: 6 Feb 2020 3:05 pm

Tgt Ion: 42 Resp: 39387

Ion	Ratio	Lower	Upper
42	100		
71	58.7	27.5	64.1
72	61.7	28.8	67.2

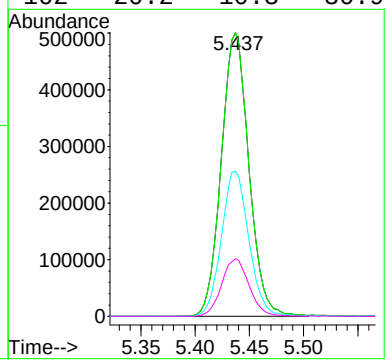


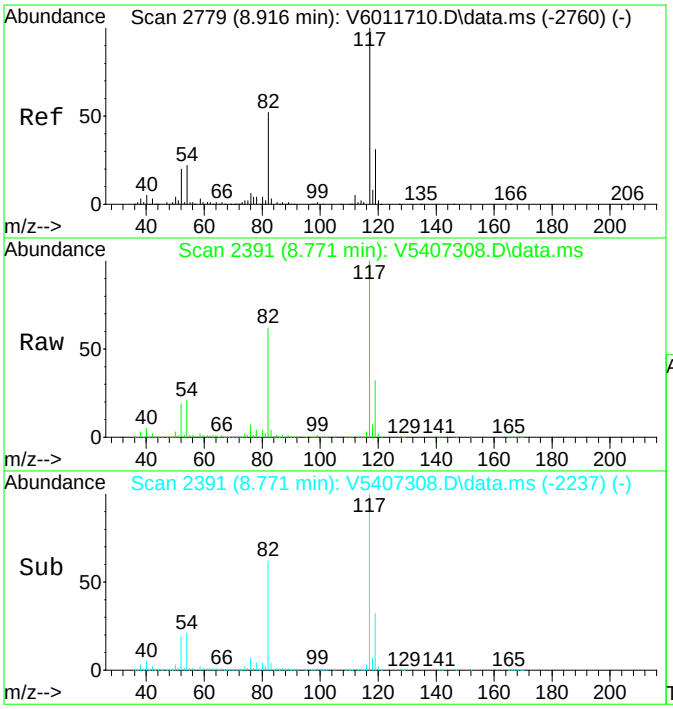


#35
d4-1,2-Dichloroethane (SURR)
Concen: 51.48 ppb
RT: 5.437 min Scan# 1354
Delta R.T. -0.006 min
Lab File: V5407308.D
Acq: 6 Feb 2020 3:05 pm

Tgt Ion: 65 Resp: 886991

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	51.0	34.2	71.0
102	20.2	10.3	30.9

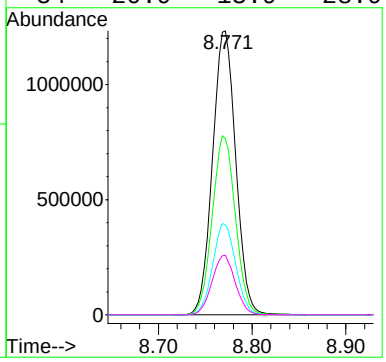


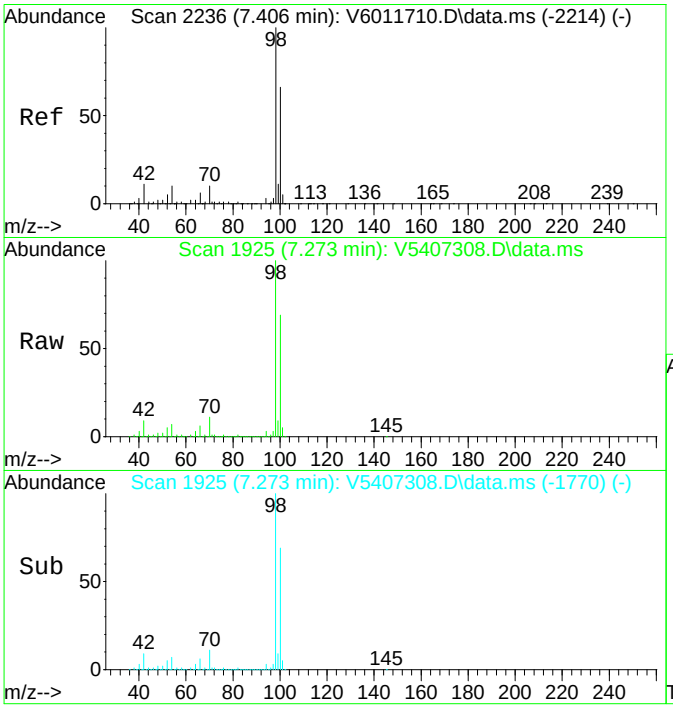


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.771 min Scan# 2391
Delta R.T. -0.004 min
Lab File: V5407308.D
Acq: 6 Feb 2020 3:05 pm

Tgt Ion:117 Resp: 2129758

Ion	Ratio	Lower	Upper
117	100		
82	63.0	38.3	79.5
119	31.9	20.9	43.3
54	20.9	13.9	28.9

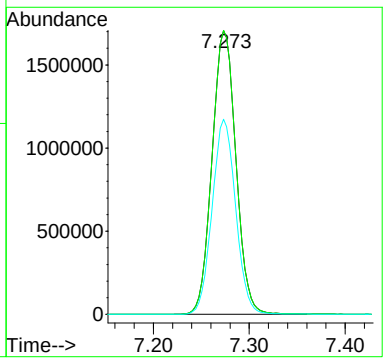


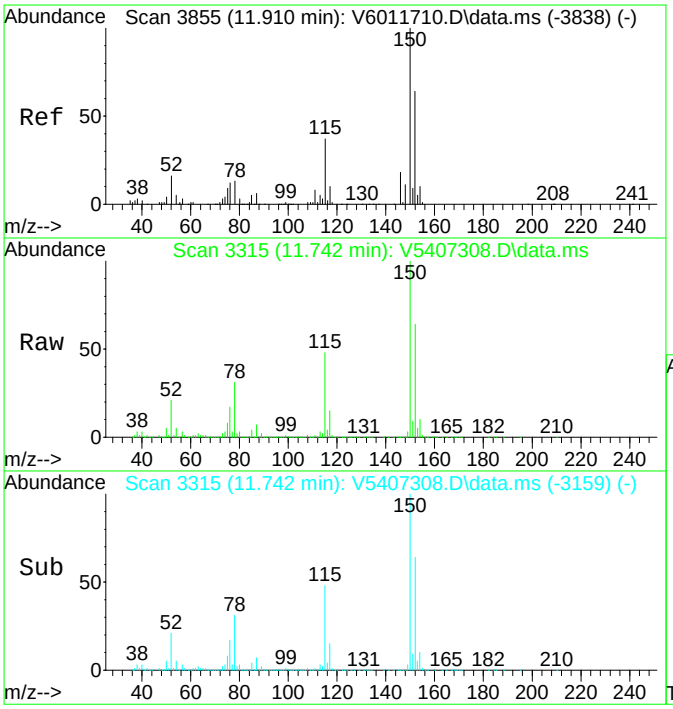


#53
Toluene-d8 (SURR)
Concen: 47.05 ppb
RT: 7.273 min Scan# 1925
Delta R.T. -0.003 min
Lab File: V5407308.D
Acq: 6 Feb 2020 3:05 pm

Tgt Ion: 98 Resp: 2950760

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	67.8	43.0	89.4

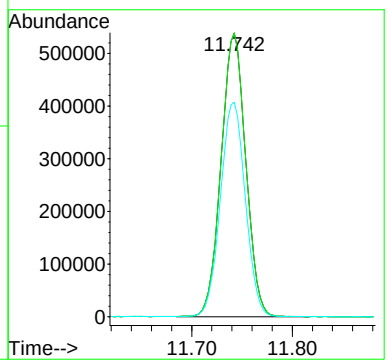


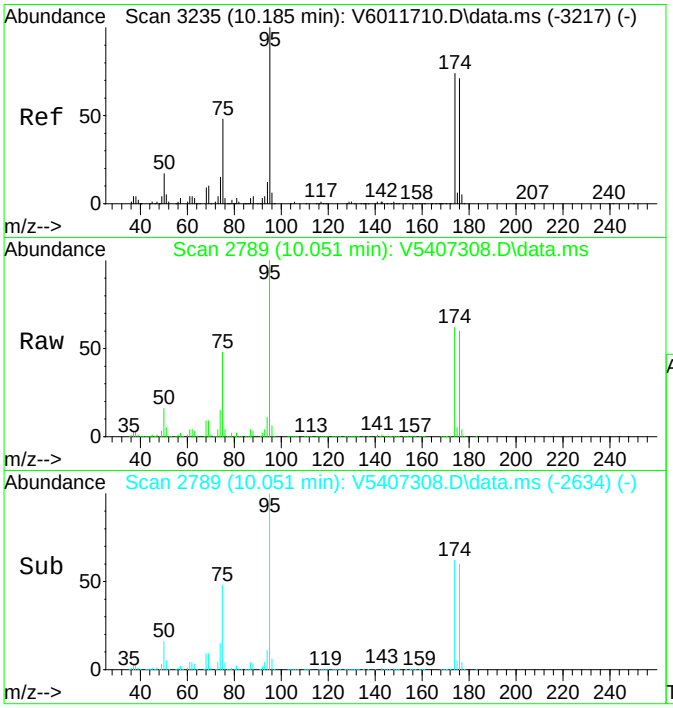


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.742 min Scan# 3315
Delta R.T. 0.000 min
Lab File: V5407308.D
Acq: 6 Feb 2020 3:05 pm

Tgt Ion:152 Resp: 914762

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	76.4	44.9	134.7

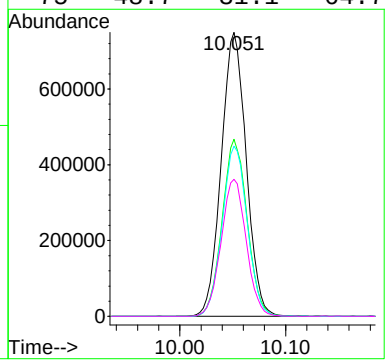




#73
p-Bromofluorobenzene (SURR)
Concen: 48.52 ppb
RT: 10.051 min Scan# 2789
Delta R.T. -0.003 min
Lab File: V5407308.D
Acq: 6 Feb 2020 3:05 pm

Tgt Ion: 95 Resp: 1230585

Ion	Ratio	Lower	Upper
95	100		
174	62.3	42.8	88.8
176	60.3	41.3	85.7
75	48.7	31.1	64.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

Trip Blank

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Water Laboratory ID: 20B0093-04 File ID: QV910070.D

Sampled: 02/04/20 00:00 Prepared: 02/05/20 19:08 Analyzed: 02/07/20 03:20

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

Batch: BB00136 Sequence: Y0B0703 Calibration: YB00013 Instrument: QVOA9

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	0.50	U
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

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Water Laboratory ID: 20B0093-04 File ID: QV910070.D

Sampled: 02/04/20 00:00 Prepared: 02/05/20 19:08 Analyzed: 02/07/20 03:20

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

Batch: BB00136 Sequence: Y0B0703 Calibration: YB00013 Instrument: QVOA9

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	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	9.55	95.5	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	69789	5.784	65155	5.787	
ISTD: Chlorobenzene-d5	299195	8.838	284123	8.838	
ISTD: 1,2-Dichlorobenzene-d4	90279	11.829	93727	11.826	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910070.D
Acq On : 7 Feb 2020 3:20 am
Operator : LLJ
Sample : 20B0093-04
Misc : QBQV90020620B COMP D
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 10 09:39:53 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

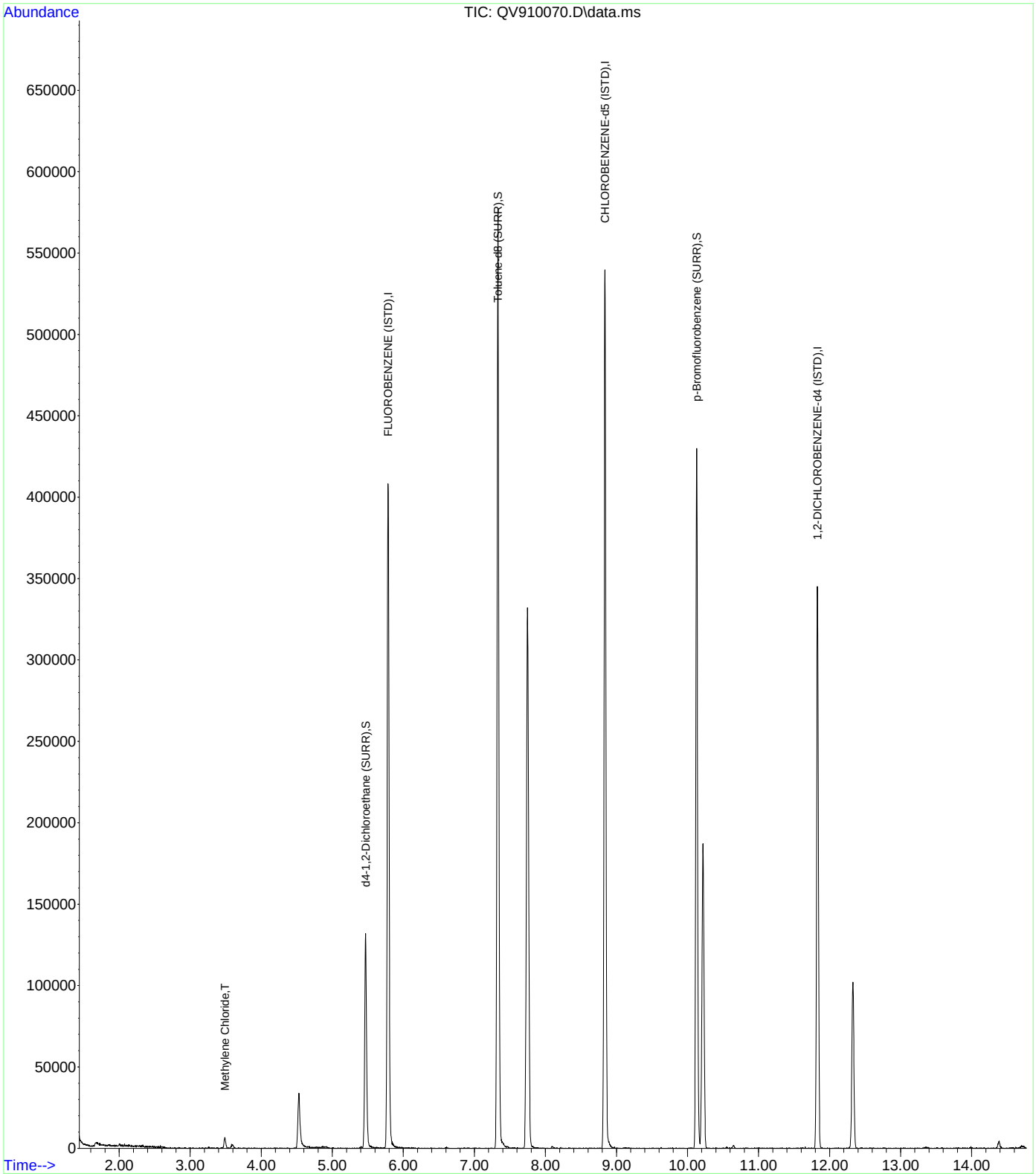
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.784	70	69789	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.838	117	299195	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.829	152	90279	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.467	65	102823	10.78	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 107.80%			
51) Toluene-d8 (SURR)	7.330	98	373691	9.55	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.50%			
70) p-Bromofluorobenzene (...	10.129	95	155951	10.39	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 103.90%			
Target Compounds						Qvalue
17) Methylene Chloride	3.486	49	3663	0.47	ppb	# 78

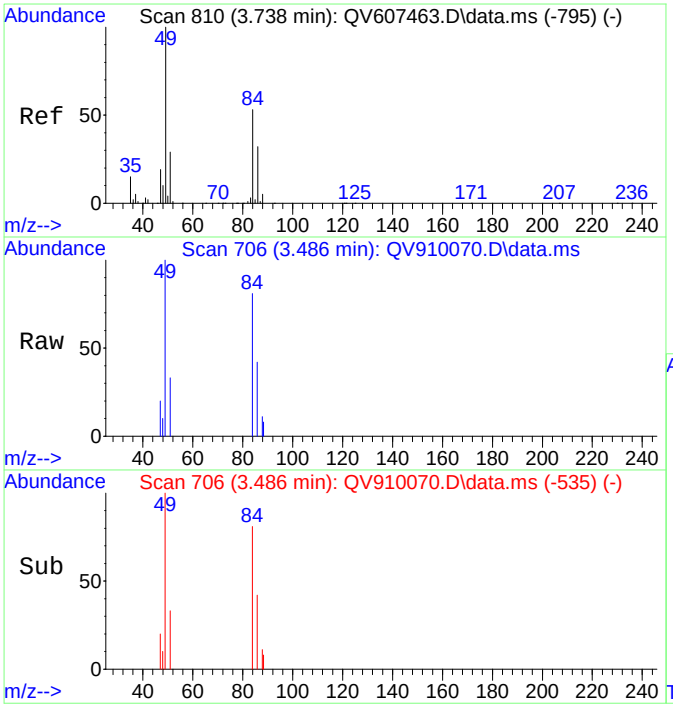
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910070.D
Acq On : 7 Feb 2020 3:20 am
Operator : LLJ
Sample : 20B0093-04
Misc : QBQV90020620B COMP D
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 10 09:39:53 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

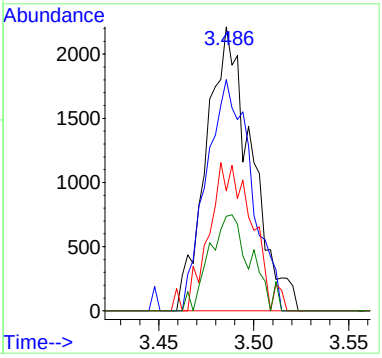




#17
Methylene Chloride
Concen: 0.47 ppb
RT: 3.486 min Scan# 706
Delta R.T. -0.002 min
Lab File: QV910070.D
Acq: 7 Feb 2020 3:20 am

Tgt Ion: 49 Resp: 3663

Ion	Ratio	Lower	Upper
49	100		
84	81.1	30.1	62.5#
86	47.4	28.6	59.4
51	30.9	20.9	43.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-3 (13-15)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-05	File ID:	V5407309.D
Sampled:	02/04/20 13:25	Prepared:	02/06/20 07:30	Analyzed:	02/06/20 15:31
Solids:	80.23	Preparation:	EPA 5035A	Initial/Final:	5.2 g / 5 ml
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	6.0	U
71-55-6	1,1,1-Trichloroethane	1	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	6.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	6.0	U
79-00-5	1,1,2-Trichloroethane	1	6.0	U
75-34-3	1,1-Dichloroethane	1	6.0	U
75-35-4	1,1-Dichloroethylene	1	6.0	U
87-61-6	1,2,3-Trichlorobenzene	1	6.0	U
96-18-4	1,2,3-Trichloropropane	1	6.0	U
120-82-1	1,2,4-Trichlorobenzene	1	6.0	U
95-63-6	1,2,4-Trimethylbenzene	1	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	6.0	U
106-93-4	1,2-Dibromoethane	1	6.0	U
95-50-1	1,2-Dichlorobenzene	1	6.0	U
107-06-2	1,2-Dichloroethane	1	6.0	U
78-87-5	1,2-Dichloropropane	1	6.0	U
108-67-8	1,3,5-Trimethylbenzene	1	6.0	U
541-73-1	1,3-Dichlorobenzene	1	6.0	U
106-46-7	1,4-Dichlorobenzene	1	6.0	U
123-91-1	1,4-Dioxane	1	120	U
78-93-3	2-Butanone	1	17	
591-78-6	2-Hexanone	1	6.0	U
108-10-1	4-Methyl-2-pentanone	1	6.0	U
67-64-1	Acetone	1	82	
107-02-8	Acrolein	1	12	U
107-13-1	Acrylonitrile	1	6.0	U
71-43-2	Benzene	1	6.0	U
74-97-5	Bromochloromethane	1	6.0	U
75-27-4	Bromodichloromethane	1	6.0	U
75-25-2	Bromoform	1	6.0	U
74-83-9	Bromomethane	1	6.0	U
75-15-0	Carbon disulfide	1	6.0	U
56-23-5	Carbon tetrachloride	1	6.0	U
108-90-7	Chlorobenzene	1	6.0	U
75-00-3	Chloroethane	1	6.0	U
67-66-3	Chloroform	1	6.0	U
74-87-3	Chloromethane	1	6.0	U
156-59-2	cis-1,2-Dichloroethylene	1	6.0	U
10061-01-5	cis-1,3-Dichloropropylene	1	6.0	U
110-82-7	Cyclohexane	1	6.0	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-3 (13-15)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-05	File ID:	V5407309.D
Sampled:	02/04/20 13:25	Prepared:	02/06/20 07:30	Analyzed:	02/06/20 15:31
Solids:	80.23	Preparation:	EPA 5035A	Initial/Final:	5.2 g / 5 ml
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
124-48-1	Dibromochloromethane	1	6.0	U
74-95-3	Dibromomethane	1	6.0	U
75-71-8	Dichlorodifluoromethane	1	6.0	U
100-41-4	Ethyl Benzene	1	6.0	U
87-68-3	Hexachlorobutadiene	1	6.0	U
98-82-8	Isopropylbenzene	1	6.0	U
79-20-9	Methyl acetate	1	6.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	6.0	U
108-87-2	Methylcyclohexane	1	6.0	U
75-09-2	Methylene chloride	1	12	U
104-51-8	n-Butylbenzene	1	6.0	U
103-65-1	n-Propylbenzene	1	6.0	U
95-47-6	o-Xylene	1	6.0	U
179601-23-1	p- & m- Xylenes	1	12	U
99-87-6	p-Isopropyltoluene	1	6.0	U
135-98-8	sec-Butylbenzene	1	6.0	U
100-42-5	Styrene	1	6.0	U
75-65-0	tert-Butyl alcohol (TBA)	1	30	U
98-06-6	tert-Butylbenzene	1	6.0	U
127-18-4	Tetrachloroethylene	1	6.0	U
108-88-3	Toluene	1	6.0	U
156-60-5	trans-1,2-Dichloroethylene	1	6.0	U
10061-02-6	trans-1,3-Dichloropropylene	1	6.0	U
110-57-6	trans-1,4-dichloro-2-butene	1	6.0	U
79-01-6	Trichloroethylene	1	6.0	U
75-69-4	Trichlorofluoromethane	1	6.0	U
75-01-4	Vinyl Chloride	1	6.0	U
1330-20-7	Xylenes, Total	1	18	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.8	104	77 - 125	
SURR: Toluene-d8	50.0	47.4	94.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	50.0	100	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	574697	5.742	562365	5.739	
ISTD: Chlorobenzene-d5	2066473	8.771	2036727	8.768	
ISTD: 1,2-Dichlorobenzene-d4	844437	11.742	902270	11.742	

* Values outside of QC limits

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407309.D
Acq On : 6 Feb 2020 3:31 pm
Operator : SS
Sample : 20B0093-05
Misc : QBV5020620A 8260 COMP 5.20G A
ALS Vial : 15 Sample Multiplier: 1

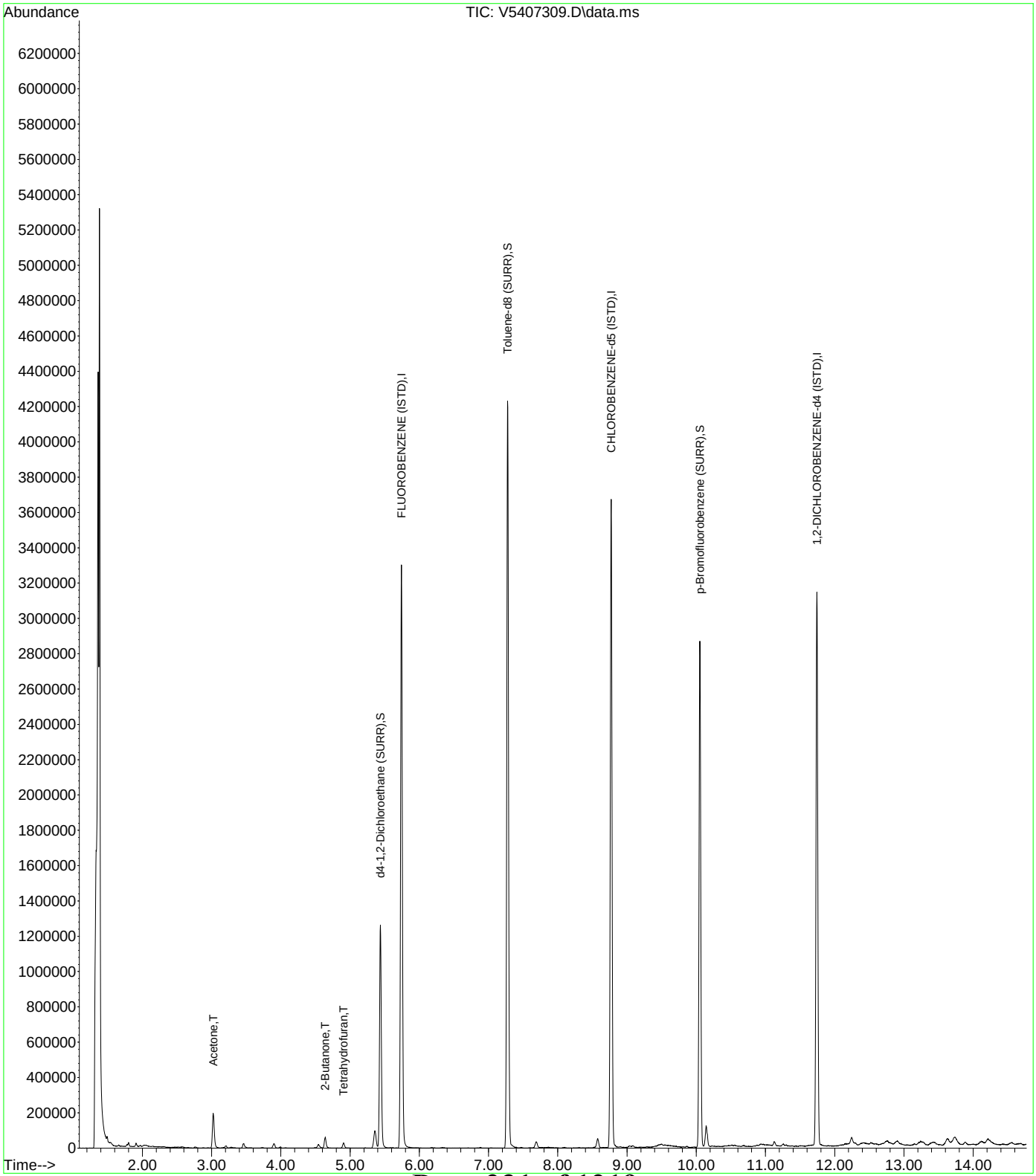
Quant Time: Feb 06 16:07:52 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

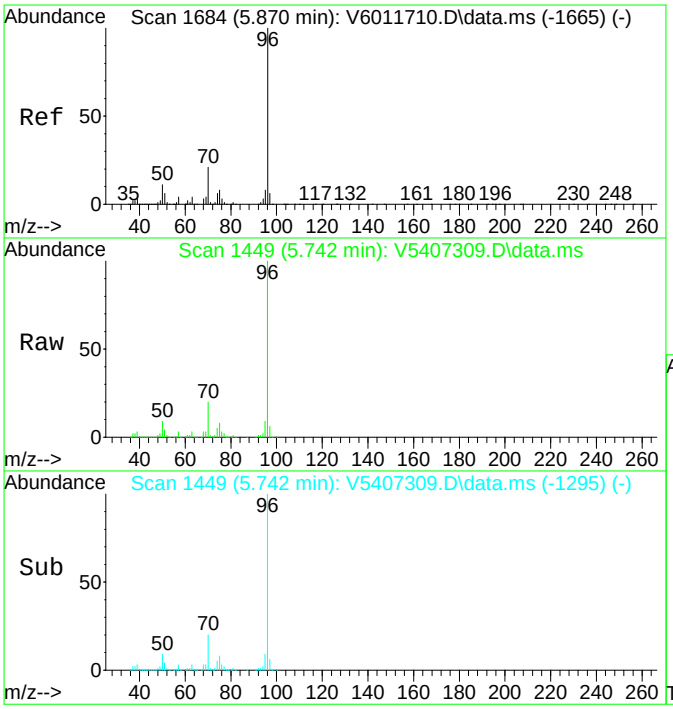
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.742	70	574697	50.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2066473	50.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	844437	50.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.437	65	874689	51.83	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.66%			
53) Toluene-d8 (SURR)	7.273	98	2887475	47.45	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.90%			
73) p-Bromofluorobenzene (...	10.051	95	1170364	49.99	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.98%			
Target Compounds						Qvalue
12) Acetone	3.022	43	231087	68.09	ppb	99
27) 2-Butanone	4.640	72	21045	13.93	ppb	86
29) Tetrahydrofuran	4.903	42	13716	5.03	ppb	81

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407309.D
Acq On : 6 Feb 2020 3:31 pm
Operator : SS
Sample : 20B0093-05
Misc : QBV5020620A 8260 COMP 5.20G A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 06 16:07:52 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

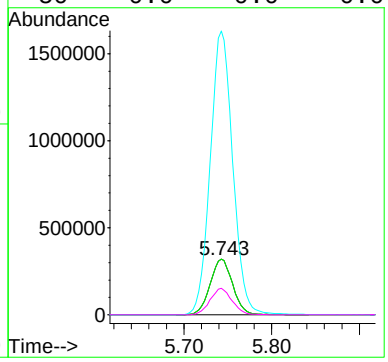


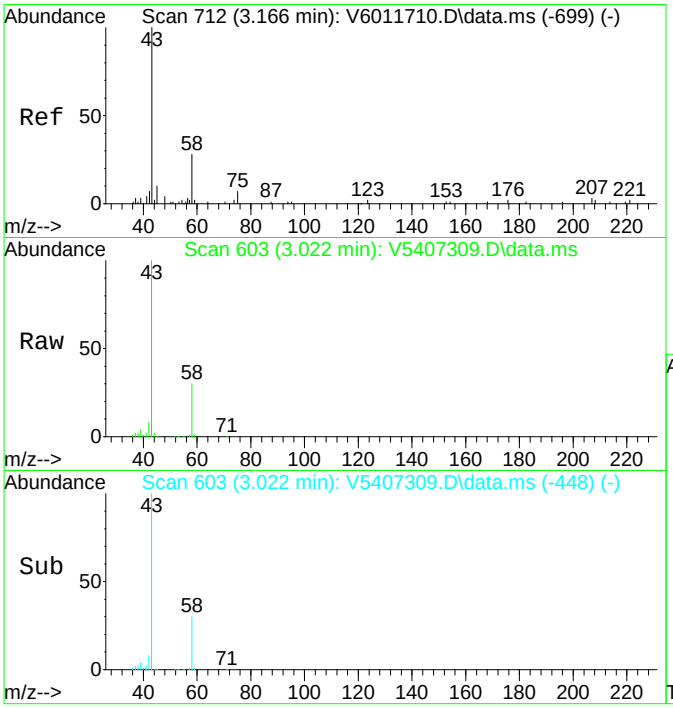


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.742 min Scan# 1449
Delta R.T. -0.004 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion: 70 Resp: 574697

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	508.7	318.4	661.4
50	0.0	0.0	0.0

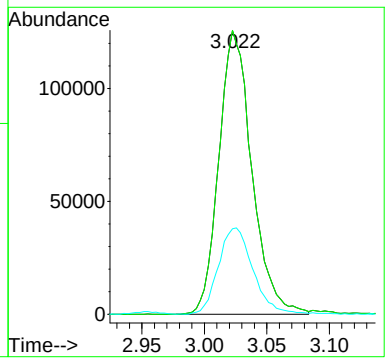


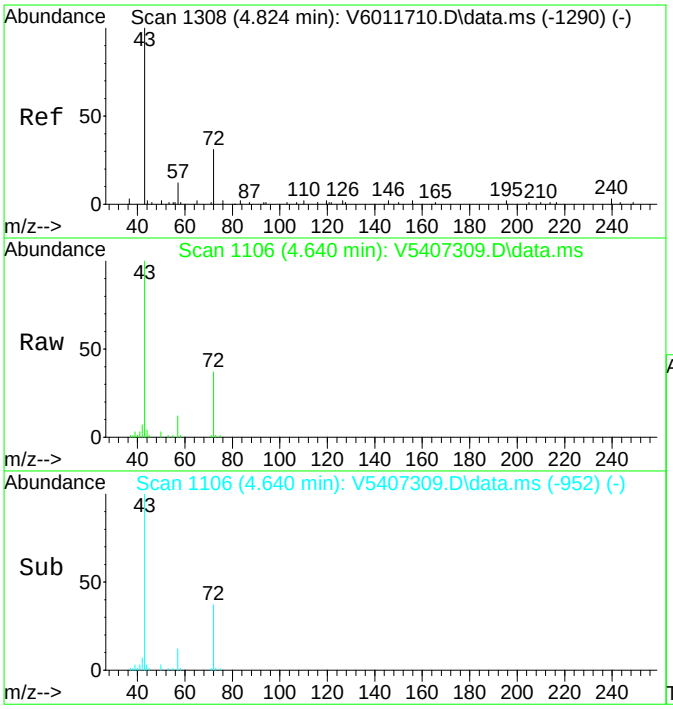


#12
Acetone
Concen: 68.09 ppb
RT: 3.022 min Scan# 603
Delta R.T. -0.000 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion: 43 Resp: 231087

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	32.3	15.3	45.9

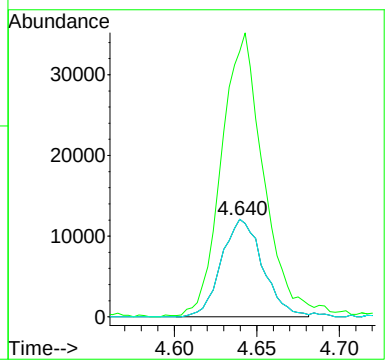


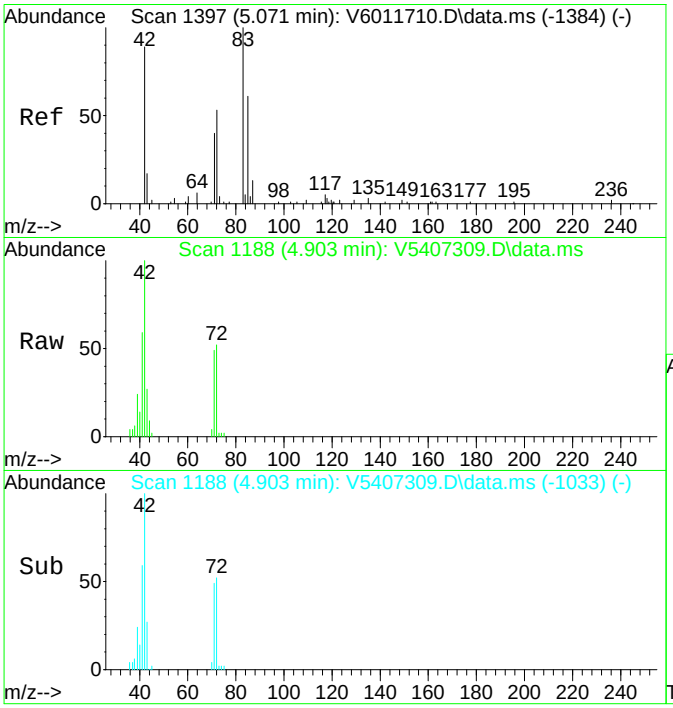


#27
2-Butanone
Concen: 13.93 ppb
RT: 4.640 min Scan# 1106
Delta R.T. -0.003 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion: 72 Resp: 21045

Ion	Ratio	Lower	Upper
72	100		
43	300.4	272.2	408.2
72	100.0	50.0	150.0

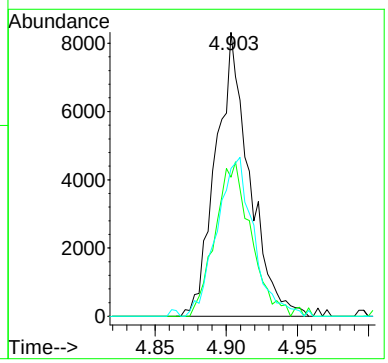


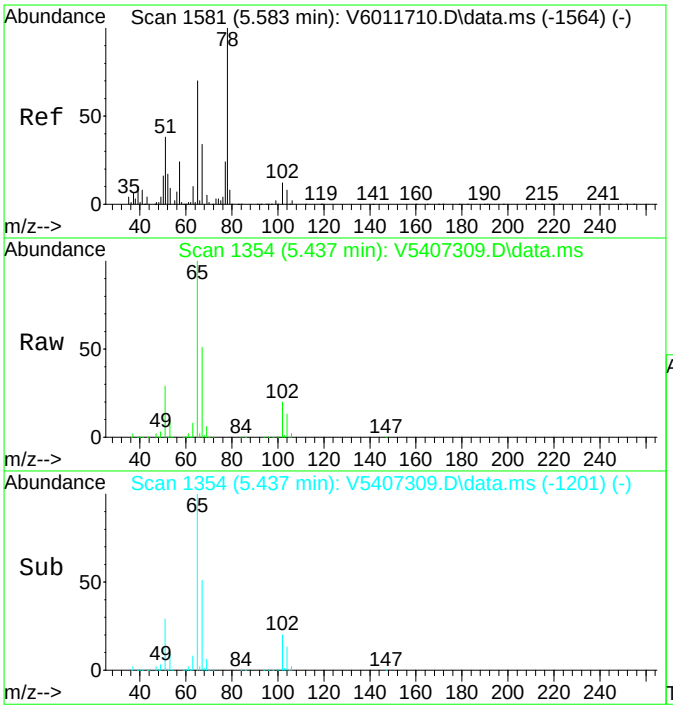


#29
Tetrahydrofuran
Concen: 5.03 ppb
RT: 4.903 min Scan# 1188
Delta R.T. -0.000 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion: 42 Resp: 13716

Ion	Ratio	Lower	Upper
42	100		
71	57.6	27.5	64.1
72	61.2	28.8	67.2

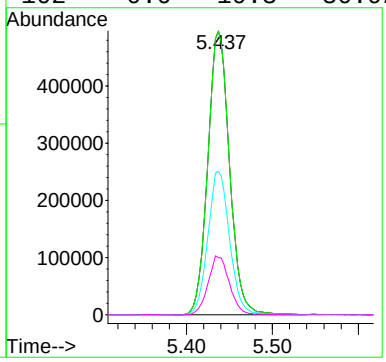


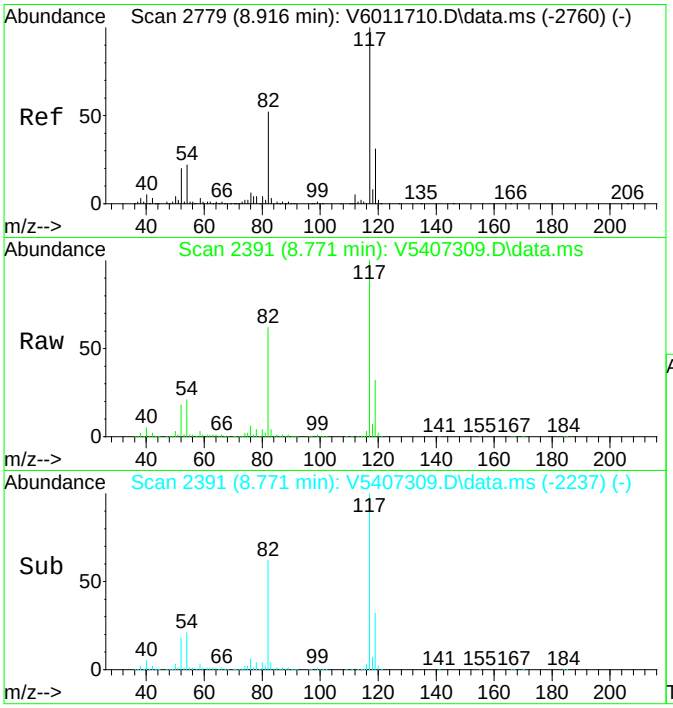


#35
d4-1,2-Dichloroethane (SURR)
Concen: 51.83 ppb
RT: 5.437 min Scan# 1354
Delta R.T. -0.006 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion: 65 Resp: 874689

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.6	34.2	71.0
102	0.0	10.3	30.9#

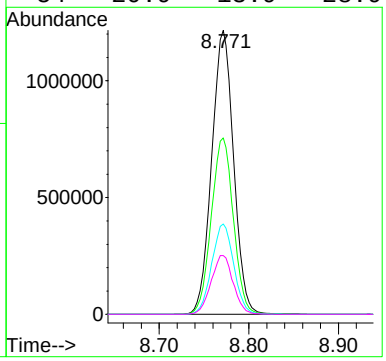


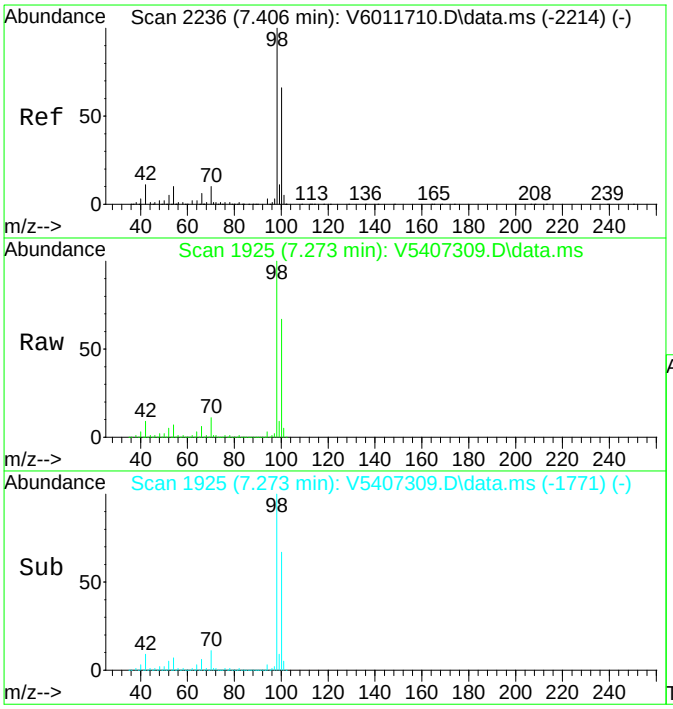


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.771 min Scan# 2391
Delta R.T. -0.004 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion:117 Resp: 2066473

Ion	Ratio	Lower	Upper
117	100		
82	62.6	38.3	79.5
119	32.0	20.9	43.3
54	20.9	13.9	28.9

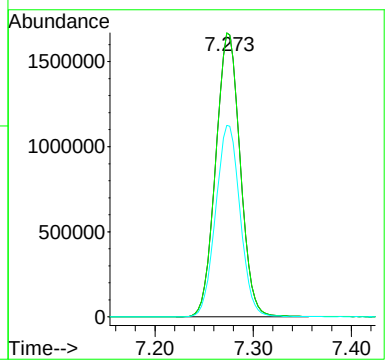


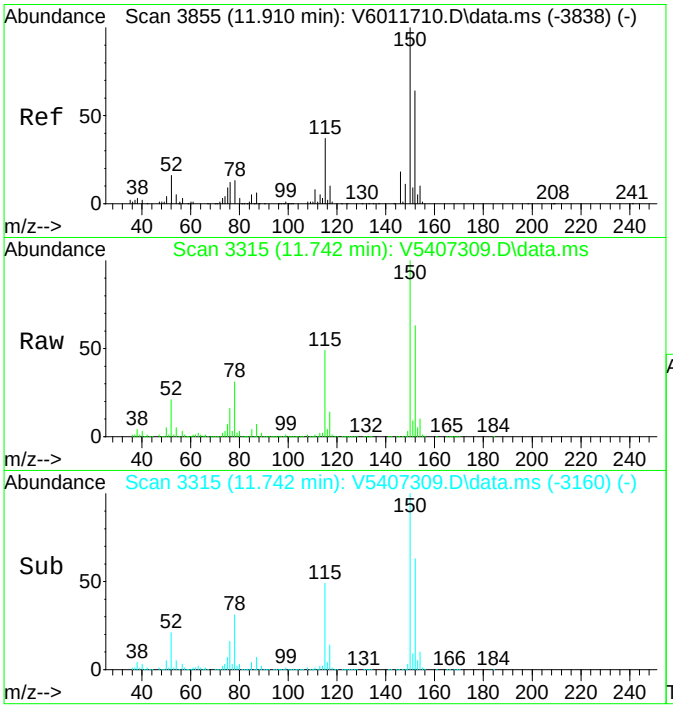


#53
Toluene-d8 (SURR)
Concen: 47.45 ppb
RT: 7.273 min Scan# 1925
Delta R.T. -0.003 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion: 98 Resp: 2887475

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	67.7	43.0	89.4

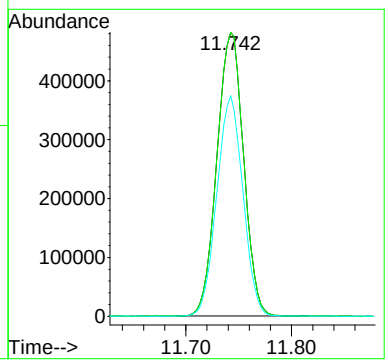


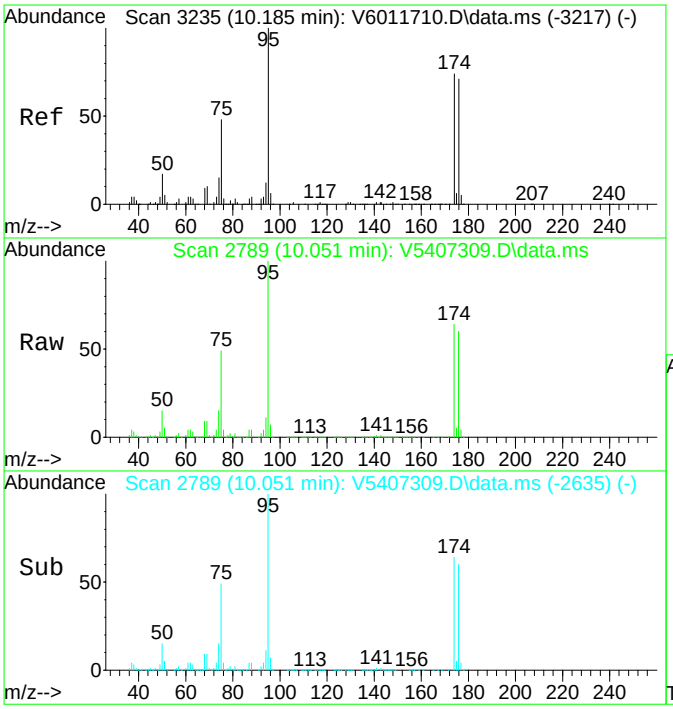


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.742 min Scan# 3315
Delta R.T. -0.000 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion:152 Resp: 844437

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	76.3	44.9	134.7

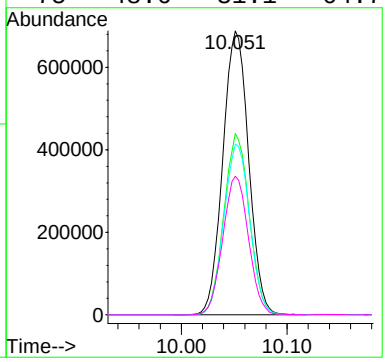




#73
p-Bromofluorobenzene (SURR)
Concen: 49.99 ppb
RT: 10.051 min Scan# 2789
Delta R.T. -0.003 min
Lab File: V5407309.D
Acq: 6 Feb 2020 3:31 pm

Tgt Ion: 95 Resp: 1170364

Ion	Ratio	Lower	Upper
95	100		
174	62.8	42.8	88.8
176	60.3	41.3	85.7
75	48.6	31.1	64.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-06 File ID: V5407310.D

Sampled: 02/04/20 14:50 Prepared: 02/06/20 07:30 Analyzed: 02/06/20 15:56

Solids: 88.89 Preparation: EPA 5035A Initial/Final: 6.08 g / 5 ml

Batch: BB00232 Sequence: Y0B0615 Calibration: YL90031 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	4.6	U
71-55-6	1,1,1-Trichloroethane	1	4.6	U
79-34-5	1,1,2,2-Tetrachloroethane	1	4.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	4.6	U
79-00-5	1,1,2-Trichloroethane	1	4.6	U
75-34-3	1,1-Dichloroethane	1	4.6	U
75-35-4	1,1-Dichloroethylene	1	4.6	U
87-61-6	1,2,3-Trichlorobenzene	1	4.6	U
96-18-4	1,2,3-Trichloropropane	1	4.6	U
120-82-1	1,2,4-Trichlorobenzene	1	4.6	U
95-63-6	1,2,4-Trimethylbenzene	1	4.6	U
96-12-8	1,2-Dibromo-3-chloropropane	1	4.6	U
106-93-4	1,2-Dibromoethane	1	4.6	U
95-50-1	1,2-Dichlorobenzene	1	4.6	U
107-06-2	1,2-Dichloroethane	1	4.6	U
78-87-5	1,2-Dichloropropane	1	4.6	U
108-67-8	1,3,5-Trimethylbenzene	1	4.6	U
541-73-1	1,3-Dichlorobenzene	1	4.6	U
106-46-7	1,4-Dichlorobenzene	1	4.6	U
123-91-1	1,4-Dioxane	1	93	U
78-93-3	2-Butanone	1	4.6	U
591-78-6	2-Hexanone	1	4.6	U
108-10-1	4-Methyl-2-pentanone	1	4.6	U
67-64-1	Acetone	1	9.3	U
107-02-8	Acrolein	1	9.3	U
107-13-1	Acrylonitrile	1	4.6	U
71-43-2	Benzene	1	4.6	U
74-97-5	Bromochloromethane	1	4.6	U
75-27-4	Bromodichloromethane	1	4.6	U
75-25-2	Bromoform	1	4.6	U
74-83-9	Bromomethane	1	4.6	U
75-15-0	Carbon disulfide	1	4.6	U
56-23-5	Carbon tetrachloride	1	4.6	U
108-90-7	Chlorobenzene	1	4.6	U
75-00-3	Chloroethane	1	4.6	U
67-66-3	Chloroform	1	4.6	U
74-87-3	Chloromethane	1	4.6	U
156-59-2	cis-1,2-Dichloroethylene	1	4.6	U
10061-01-5	cis-1,3-Dichloropropylene	1	4.6	U
110-82-7	Cyclohexane	1	4.6	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-06	File ID:	V5407310.D
Sampled:	02/04/20 14:50	Prepared:	02/06/20 07:30	Analyzed:	02/06/20 15:56
Solids:	88.89	Preparation:	EPA 5035A	Initial/Final:	6.08 g / 5 ml
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
124-48-1	Dibromochloromethane	1	4.6	U
74-95-3	Dibromomethane	1	4.6	U
75-71-8	Dichlorodifluoromethane	1	4.6	U
100-41-4	Ethyl Benzene	1	4.6	U
87-68-3	Hexachlorobutadiene	1	4.6	U
98-82-8	Isopropylbenzene	1	4.6	U
79-20-9	Methyl acetate	1	4.6	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	4.6	U
108-87-2	Methylcyclohexane	1	4.6	U
75-09-2	Methylene chloride	1	9.3	U
104-51-8	n-Butylbenzene	1	4.6	U
103-65-1	n-Propylbenzene	1	4.6	U
95-47-6	o-Xylene	1	4.6	U
179601-23-1	p- & m- Xylenes	1	9.3	U
99-87-6	p-Isopropyltoluene	1	4.6	U
135-98-8	sec-Butylbenzene	1	4.6	U
100-42-5	Styrene	1	4.6	U
75-65-0	tert-Butyl alcohol (TBA)	1	23	U
98-06-6	tert-Butylbenzene	1	4.6	U
127-18-4	Tetrachloroethylene	1	4.6	U
108-88-3	Toluene	1	4.6	U
156-60-5	trans-1,2-Dichloroethylene	1	4.6	U
10061-02-6	trans-1,3-Dichloropropylene	1	4.6	U
110-57-6	trans-1,4-dichloro-2-butene	1	4.6	U
79-01-6	Trichloroethylene	1	4.6	U
75-69-4	Trichlorofluoromethane	1	4.6	U
75-01-4	Vinyl Chloride	1	4.6	U
1330-20-7	Xylenes, Total	1	14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.5	105	77 - 125	
SURR: Toluene-d8	50.0	47.0	93.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	47.5	95.0	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	557902	5.743	562365	5.739	
ISTD: Chlorobenzene-d5	2062050	8.771	2036727	8.768	
ISTD: 1,2-Dichlorobenzene-d4	902957	11.742	902270	11.742	

* Values outside of QC limits

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407310.D
Acq On : 6 Feb 2020 3:56 pm
Operator : SS
Sample : 20B0093-06
Misc : QBV5020620A 8260 COMP 6.08G A
ALS Vial : 16 Sample Multiplier: 1

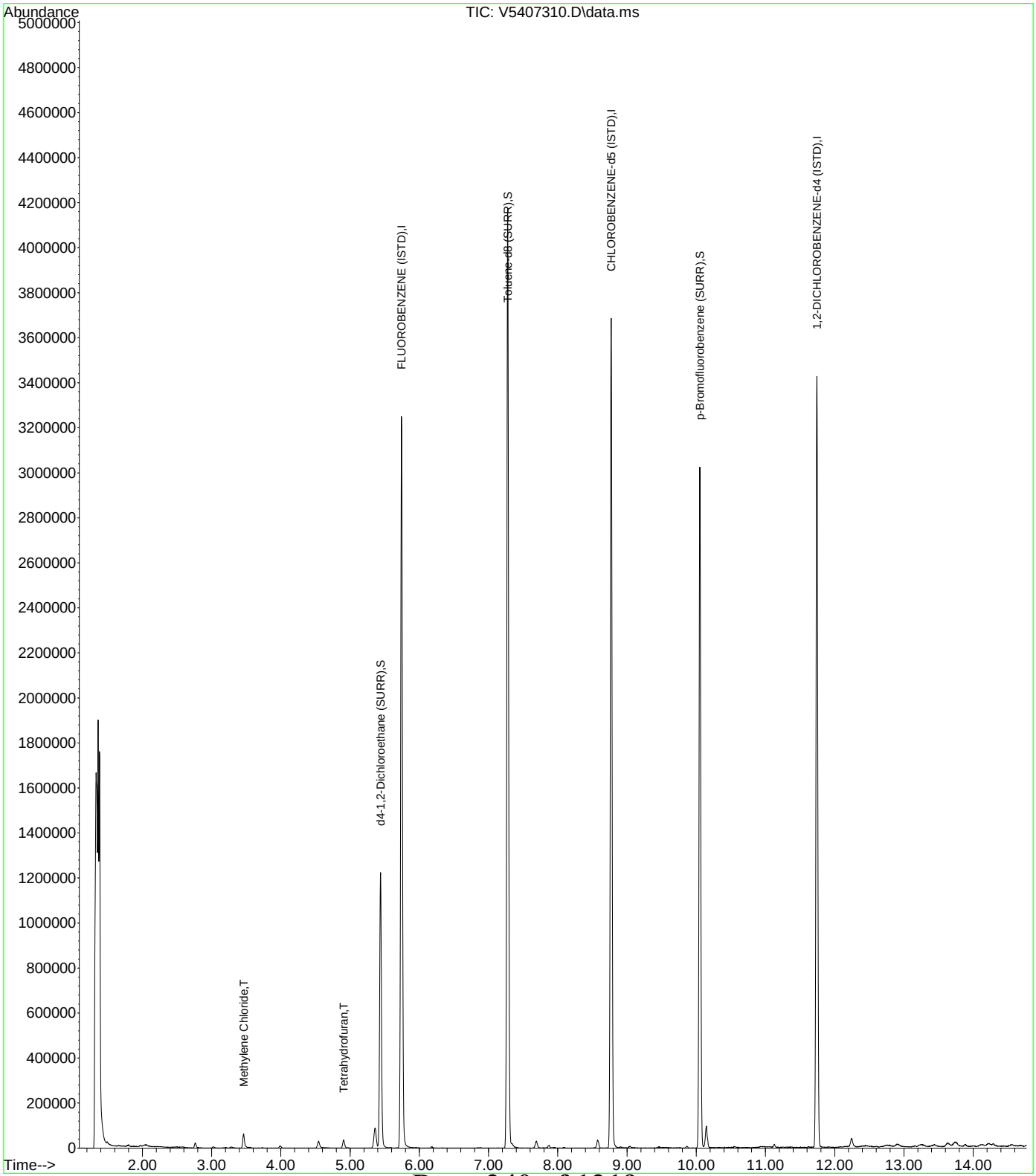
Quant Time: Feb 07 13:09:23 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

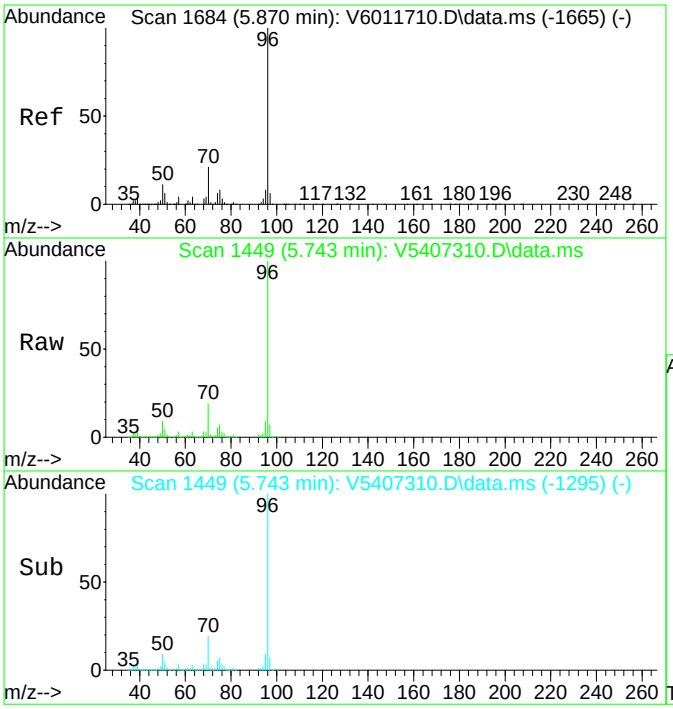
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.743	70	557902	50.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2062050	50.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	902957	50.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.440	65	860287	52.51	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.02%			
53) Toluene-d8 (SURR)	7.276	98	2852097	46.97	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.94%			
73) p-Bromofluorobenzene (...	10.051	95	1189073	47.50	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue
18) Methylene Chloride	3.463	49	29679	3.43	ppb	82
29) Tetrahydrofuran	4.907	42	18415	6.95	ppb	81

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407310.D
Acq On : 6 Feb 2020 3:56 pm
Operator : SS
Sample : 20B0093-06
Misc : QBV5020620A 8260 COMP 6.08G A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 07 13:09:23 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

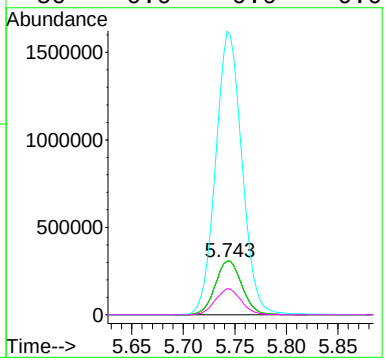


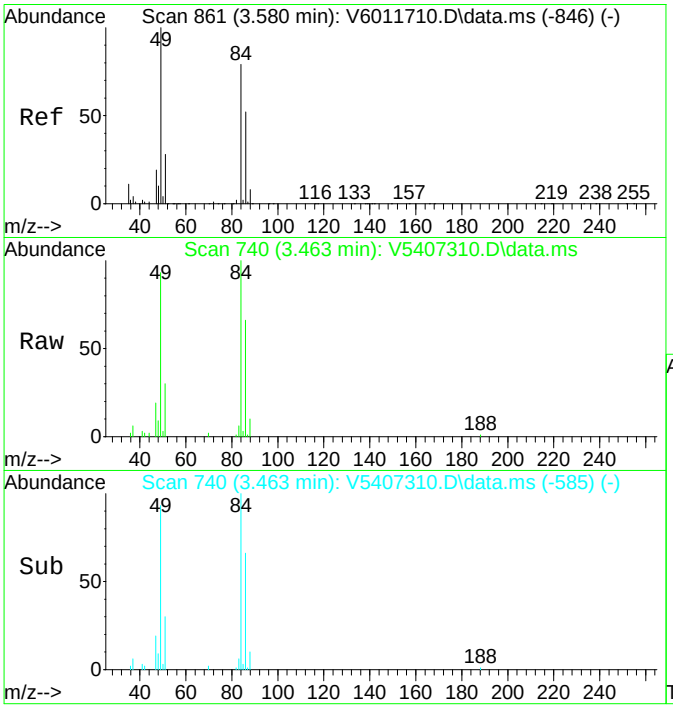


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.743 min Scan# 1449
Delta R.T. -0.003 min
Lab File: V5407310.D
Acq: 6 Feb 2020 3:56 pm

Tgt Ion: 70 Resp: 557902

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	516.8	318.4	661.4
50	0.0	0.0	0.0

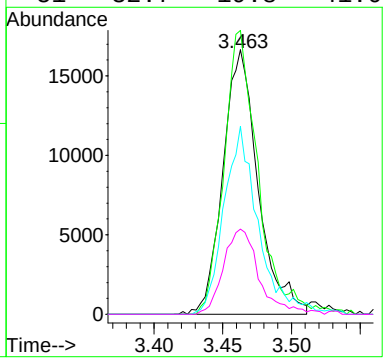


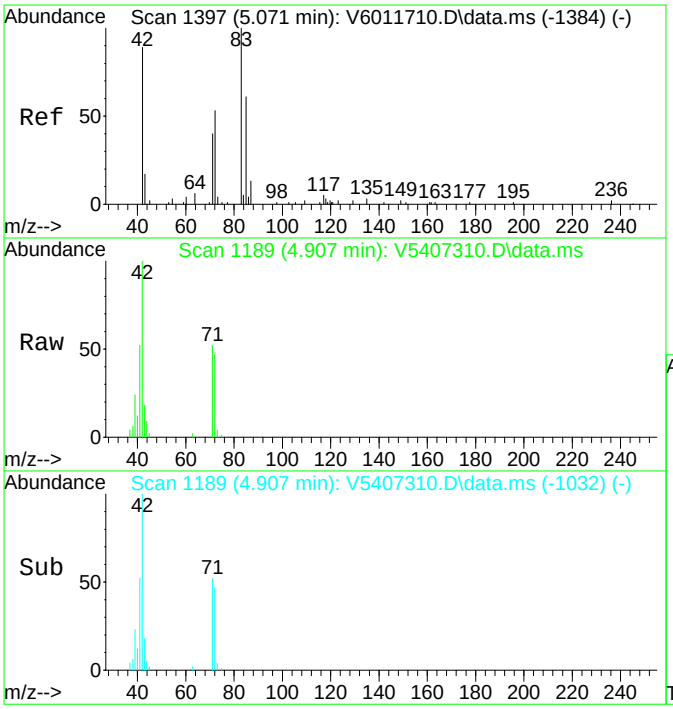


#18
Methylene Chloride
Concen: 3.43 ppb
RT: 3.463 min Scan# 740
Delta R.T. -0.000 min
Lab File: V5407310.D
Acq: 6 Feb 2020 3:56 pm

Tgt Ion: 49 Resp: 29679

Ion	Ratio	Lower	Upper
49	100		
84	104.5	55.8	115.8
86	69.0	35.1	72.9
51	32.7	19.8	41.0

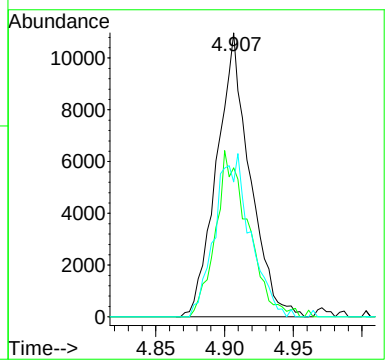


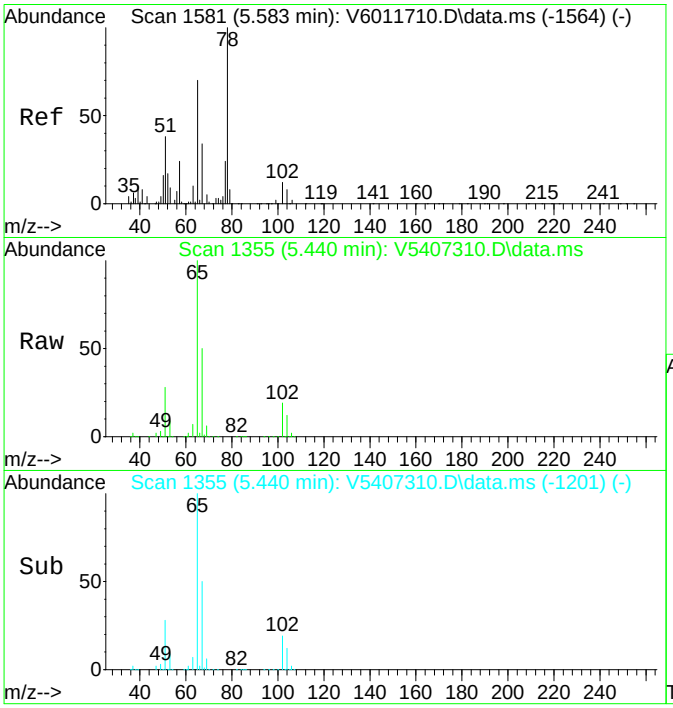


#29
Tetrahydrofuran
Concen: 6.95 ppb
RT: 4.907 min Scan# 1189
Delta R.T. 0.003 min
Lab File: V5407310.D
Acq: 6 Feb 2020 3:56 pm

Tgt Ion: 42 Resp: 18415

Ion	Ratio	Lower	Upper
42	100		
71	58.1	27.5	64.1
72	61.2	28.8	67.2

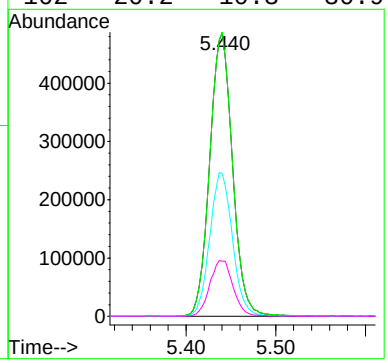


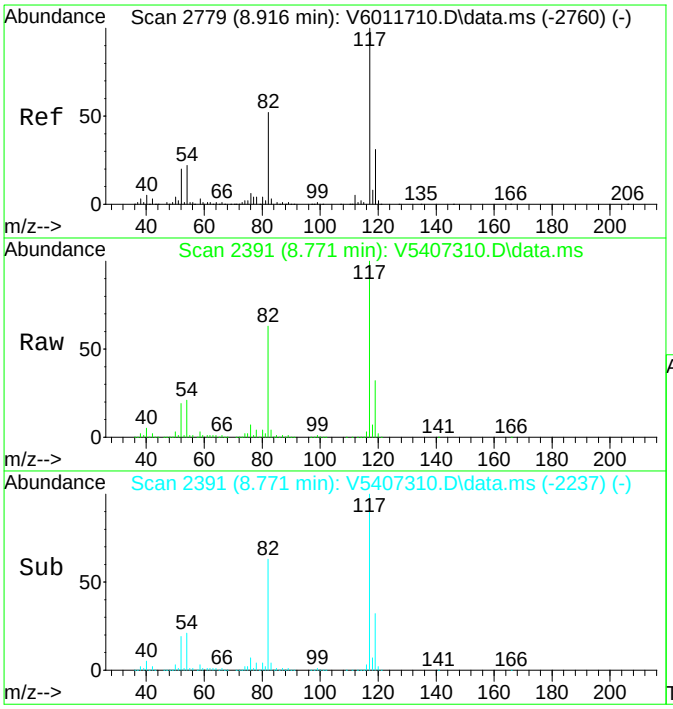


#35
d4-1,2-Dichloroethane (SURR)
Concen: 52.51 ppb
RT: 5.440 min Scan# 1355
Delta R.T. -0.003 min
Lab File: V5407310.D
Acq: 6 Feb 2020 3:56 pm

Tgt Ion: 65 Resp: 860287

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.5	34.2	71.0
102	20.2	10.3	30.9

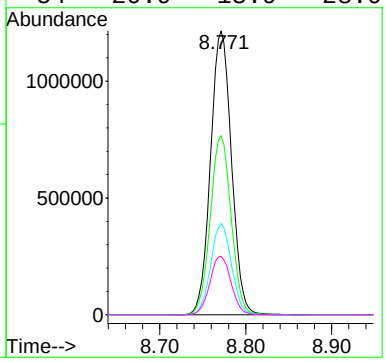


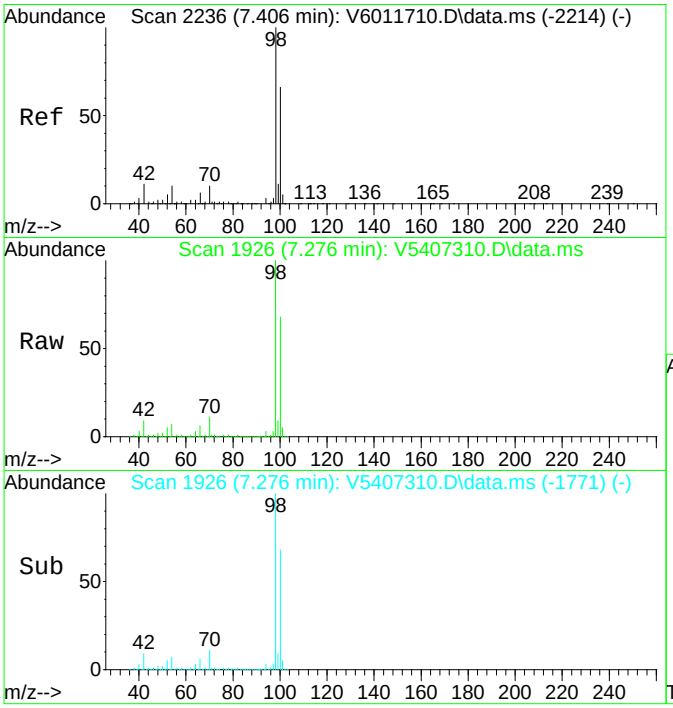


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.771 min Scan# 2391
Delta R.T. -0.004 min
Lab File: V5407310.D
Acq: 6 Feb 2020 3:56 pm

Tgt Ion:117 Resp: 2062050

Ion	Ratio	Lower	Upper
117	100		
82	62.9	38.3	79.5
119	31.9	20.9	43.3
54	20.9	13.9	28.9

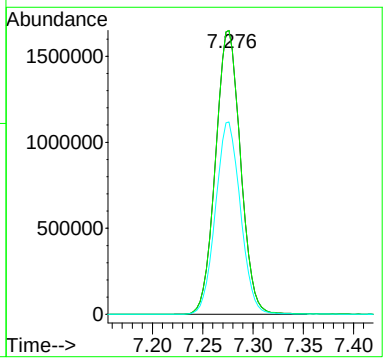


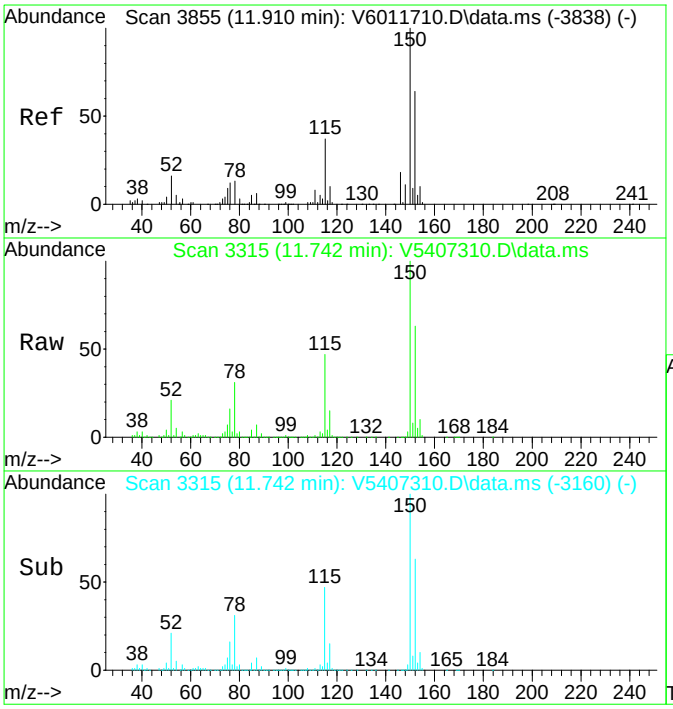


#53
Toluene-d8 (SURR)
Concen: 46.97 ppb
RT: 7.276 min Scan# 1926
Delta R.T. -0.000 min
Lab File: V5407310.D
Acq: 6 Feb 2020 3:56 pm

Tgt Ion: 98 Resp: 2852097

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	67.7	43.0	89.4

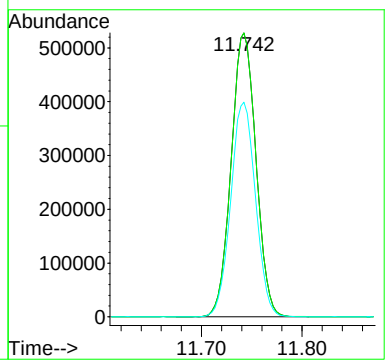


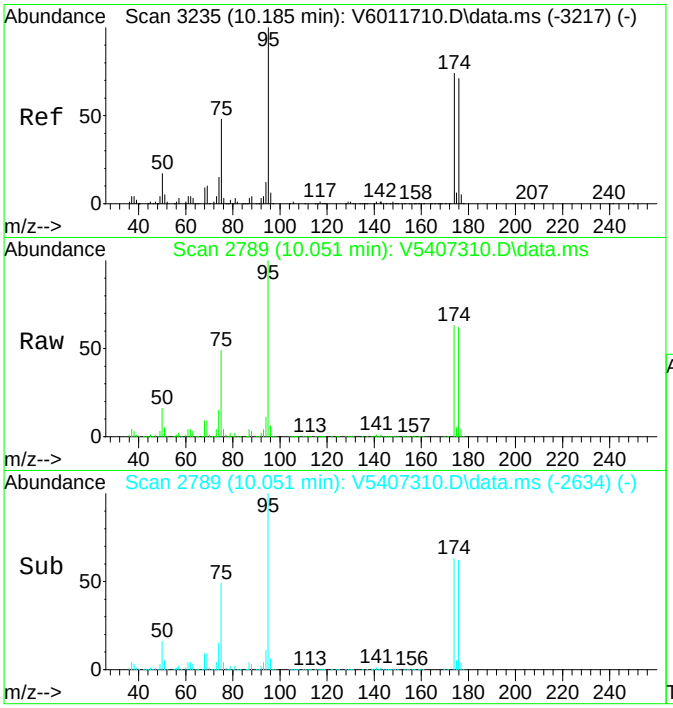


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.742 min Scan# 3315
Delta R.T. -0.000 min
Lab File: V5407310.D
Acq: 6 Feb 2020 3:56 pm

Tgt Ion:152 Resp: 902957

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	75.7	44.9	134.7

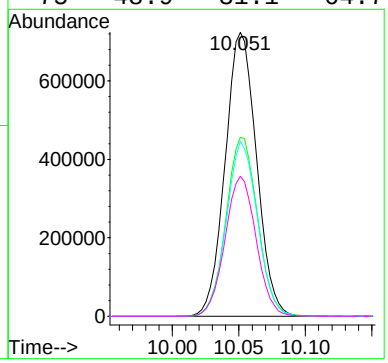




#73
p-Bromofluorobenzene (SURR)
Concen: 47.50 ppb
RT: 10.051 min Scan# 2789
Delta R.T. -0.003 min
Lab File: V5407310.D
Acq: 6 Feb 2020 3:56 pm

Tgt Ion: 95 Resp: 1189073

Ion	Ratio	Lower	Upper
95	100		
174	63.3	42.8	88.8
176	60.8	41.3	85.7
75	48.9	31.1	64.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-4 (13-15)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-07	File ID:	V5407311.D
Sampled:	02/04/20 15:00	Prepared:	02/06/20 07:30	Analyzed:	02/06/20 16:21
Solids:	74.61	Preparation:	EPA 5035A	Initial/Final:	5.15 g / 5 ml
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	6.5	U
71-55-6	1,1,1-Trichloroethane	1	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	1	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	6.5	U
79-00-5	1,1,2-Trichloroethane	1	6.5	U
75-34-3	1,1-Dichloroethane	1	6.5	U
75-35-4	1,1-Dichloroethylene	1	6.5	U
87-61-6	1,2,3-Trichlorobenzene	1	6.5	U
96-18-4	1,2,3-Trichloropropane	1	6.5	U
120-82-1	1,2,4-Trichlorobenzene	1	6.5	U
95-63-6	1,2,4-Trimethylbenzene	1	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	1	6.5	U
106-93-4	1,2-Dibromoethane	1	6.5	U
95-50-1	1,2-Dichlorobenzene	1	6.5	U
107-06-2	1,2-Dichloroethane	1	6.5	U
78-87-5	1,2-Dichloropropane	1	6.5	U
108-67-8	1,3,5-Trimethylbenzene	1	6.5	U
541-73-1	1,3-Dichlorobenzene	1	6.5	U
106-46-7	1,4-Dichlorobenzene	1	6.5	U
123-91-1	1,4-Dioxane	1	130	U
78-93-3	2-Butanone	1	17	
591-78-6	2-Hexanone	1	6.5	U
108-10-1	4-Methyl-2-pentanone	1	6.5	U
67-64-1	Acetone	1	92	
107-02-8	Acrolein	1	13	U
107-13-1	Acrylonitrile	1	6.5	U
71-43-2	Benzene	1	6.5	U
74-97-5	Bromochloromethane	1	6.5	U
75-27-4	Bromodichloromethane	1	6.5	U
75-25-2	Bromoform	1	6.5	U
74-83-9	Bromomethane	1	6.5	U
75-15-0	Carbon disulfide	1	6.5	U
56-23-5	Carbon tetrachloride	1	6.5	U
108-90-7	Chlorobenzene	1	6.5	U
75-00-3	Chloroethane	1	6.5	U
67-66-3	Chloroform	1	6.5	U
74-87-3	Chloromethane	1	6.5	U
156-59-2	cis-1,2-Dichloroethylene	1	6.5	U
10061-01-5	cis-1,3-Dichloropropylene	1	6.5	U
110-82-7	Cyclohexane	1	6.5	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID: V5407311.D

Sampled: 02/04/20 15:00 Prepared: 02/06/20 07:30 Analyzed: 02/06/20 16:21

Solids: 74.61 Preparation: EPA 5035A Initial/Final: 5.15 g / 5 ml

Batch: BB00232 Sequence: Y0B0615 Calibration: YL90031 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
124-48-1	Dibromochloromethane	1	6.5	U
74-95-3	Dibromomethane	1	6.5	U
75-71-8	Dichlorodifluoromethane	1	6.5	U
100-41-4	Ethyl Benzene	1	6.5	U
87-68-3	Hexachlorobutadiene	1	6.5	U
98-82-8	Isopropylbenzene	1	6.5	U
79-20-9	Methyl acetate	1	6.5	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	6.5	U
108-87-2	Methylcyclohexane	1	6.5	U
75-09-2	Methylene chloride	1	13	U
104-51-8	n-Butylbenzene	1	6.5	U
103-65-1	n-Propylbenzene	1	6.5	U
95-47-6	o-Xylene	1	6.5	U
179601-23-1	p- & m- Xylenes	1	13	U
99-87-6	p-Isopropyltoluene	1	6.5	U
135-98-8	sec-Butylbenzene	1	6.5	U
100-42-5	Styrene	1	6.5	U
75-65-0	tert-Butyl alcohol (TBA)	1	33	U
98-06-6	tert-Butylbenzene	1	6.5	U
127-18-4	Tetrachloroethylene	1	6.5	U
108-88-3	Toluene	1	6.5	U
156-60-5	trans-1,2-Dichloroethylene	1	6.5	U
10061-02-6	trans-1,3-Dichloropropylene	1	6.5	U
110-57-6	trans-1,4-dichloro-2-butene	1	6.5	U
79-01-6	Trichloroethylene	1	6.5	U
75-69-4	Trichlorofluoromethane	1	6.5	U
75-01-4	Vinyl Chloride	1	6.5	U
1330-20-7	Xylenes, Total	1	20	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.5	103	77 - 125	
SURR: Toluene-d8	50.0	47.2	94.5	85 - 120	
SURR: p-Bromofluorobenzene	50.0	47.4	94.9	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	576340	5.742	562365	5.739	
ISTD: Chlorobenzene-d5	2090412	8.771	2036727	8.768	
ISTD: 1,2-Dichlorobenzene-d4	905095	11.742	902270	11.742	

* Values outside of QC limits

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407311.D
Acq On : 6 Feb 2020 4:21 pm
Operator : SS
Sample : 20B0093-07
Misc : QBV5020620A 8260 COMP 5.15G A
ALS Vial : 17 Sample Multiplier: 1

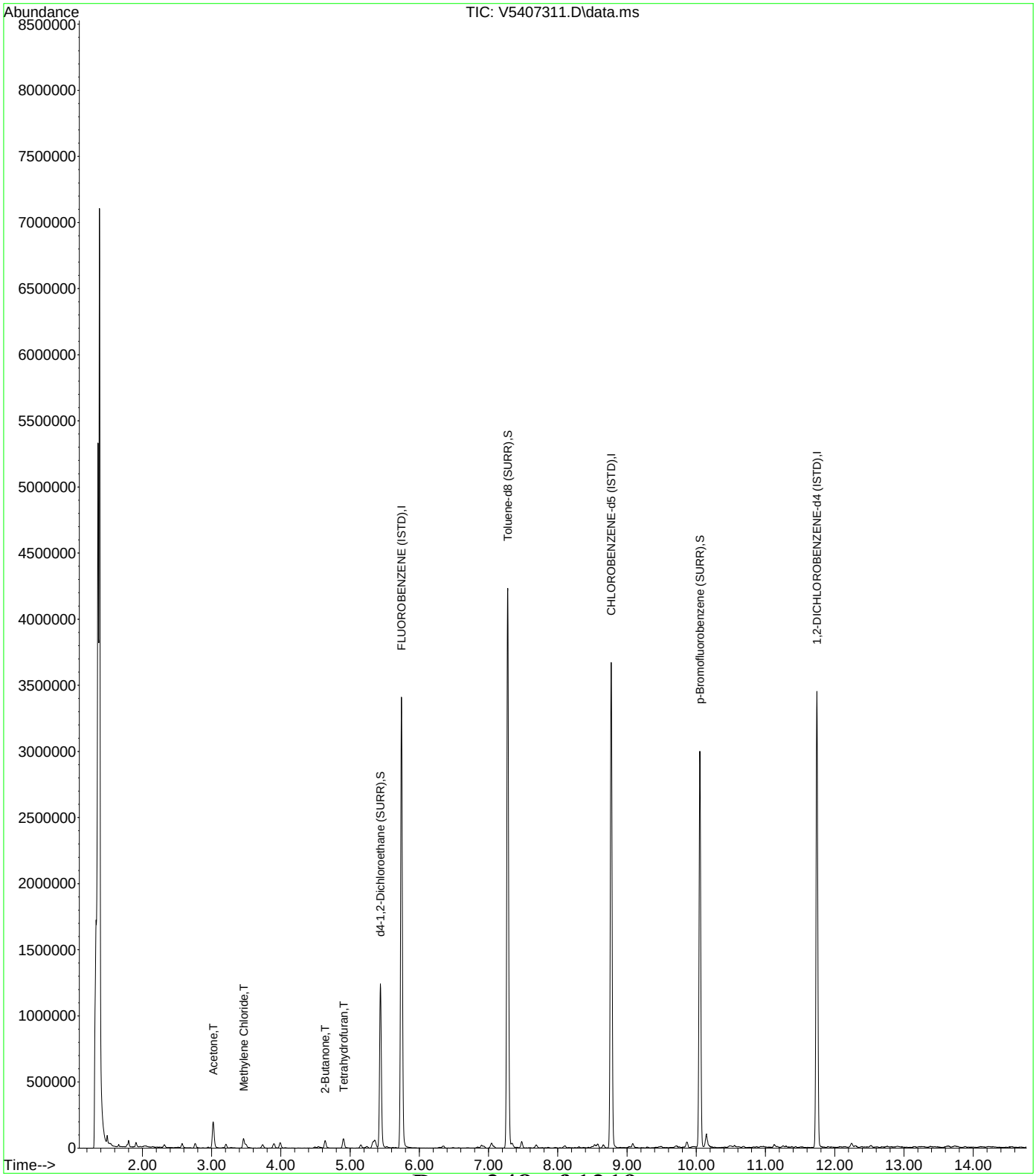
Quant Time: Feb 07 13:10:27 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

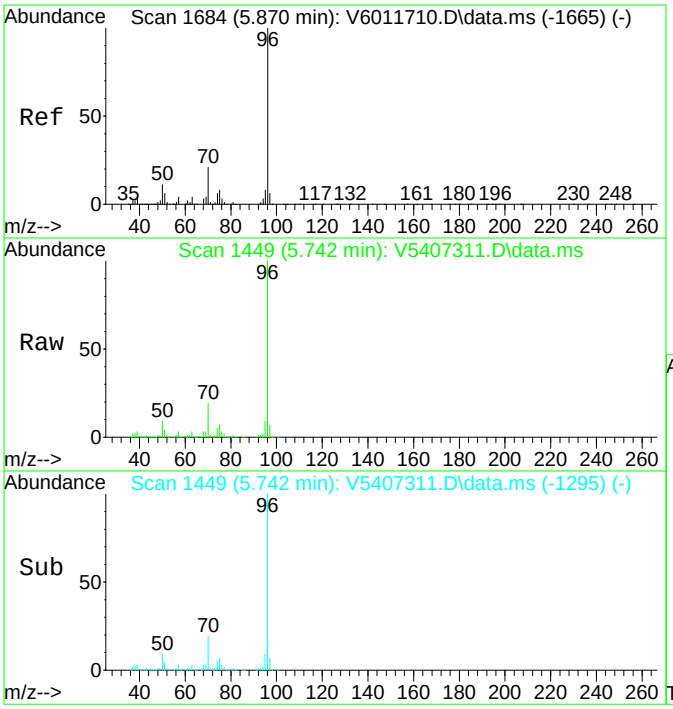
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.742	70	576340	50.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2090412	50.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	905095	50.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.437	65	872040	51.52	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.04%			
53) Toluene-d8 (SURR)	7.276	98	2906806	47.23	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.46%			
73) p-Bromofluorobenzene (...	10.051	95	1190636	47.45	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.90%			
Target Compounds						Qvalue
12) Acetone	3.022	43	239513	70.37	ppb	100
18) Methylene Chloride	3.463	49	32204	3.60	ppb	82
27) 2-Butanone	4.640	72	19881	13.12	ppb	91
29) Tetrahydrofuran	4.907	42	36456	13.32	ppb	82

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407311.D
Acq On : 6 Feb 2020 4:21 pm
Operator : SS
Sample : 20B0093-07
Misc : QBV5020620A 8260 COMP 5.15G A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 07 13:10:27 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

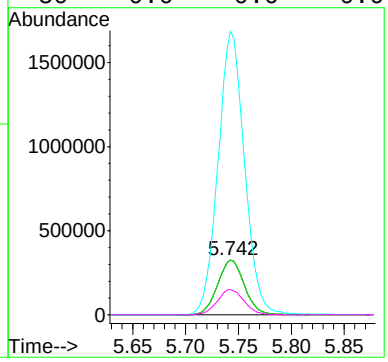


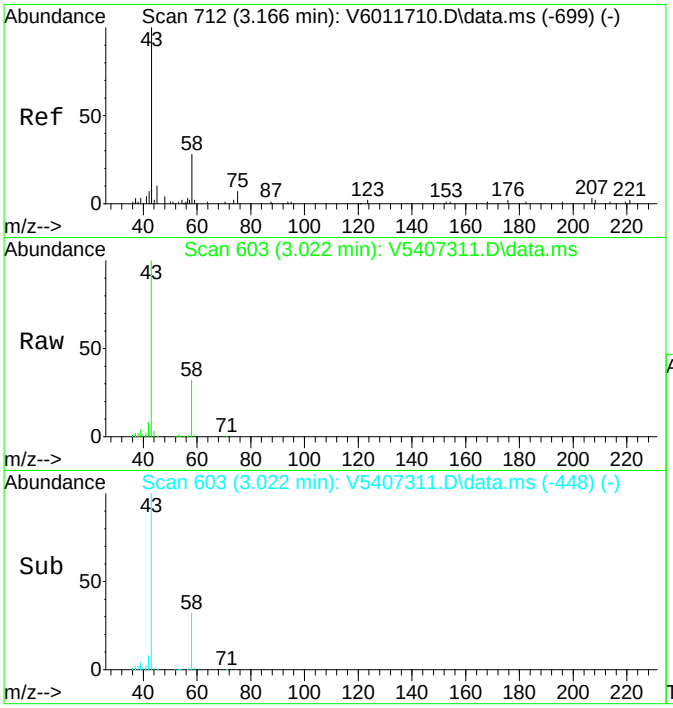


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.742 min Scan# 1449
Delta R.T. -0.004 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion: 70 Resp: 576340

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	510.7	318.4	661.4
50	0.0	0.0	0.0

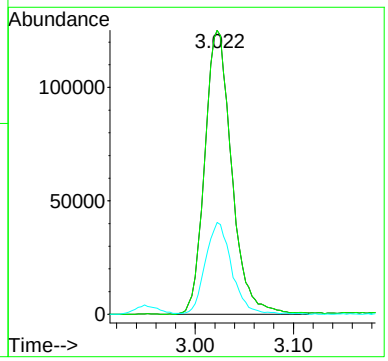


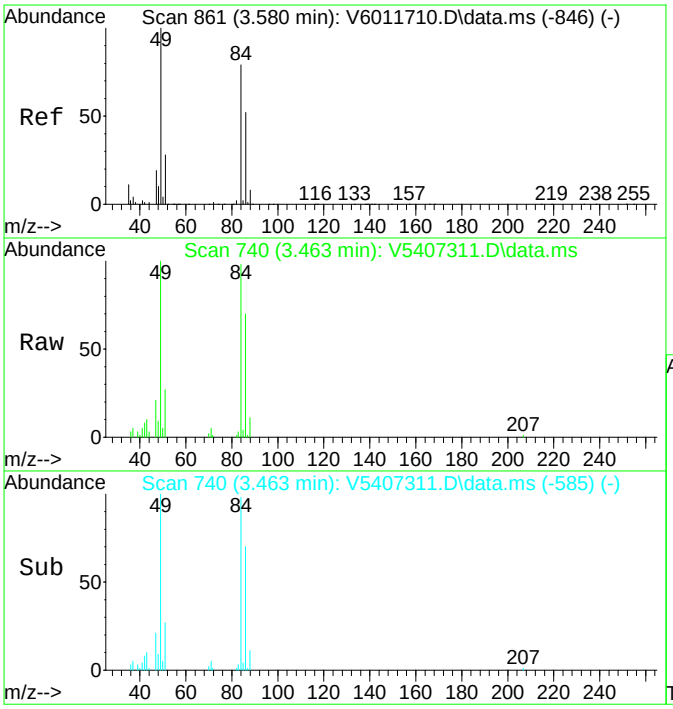


#12
Acetone
Concen: 70.37 ppb
RT: 3.022 min Scan# 603
Delta R.T. -0.000 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion: 43 Resp: 239513

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	30.9	15.3	45.9

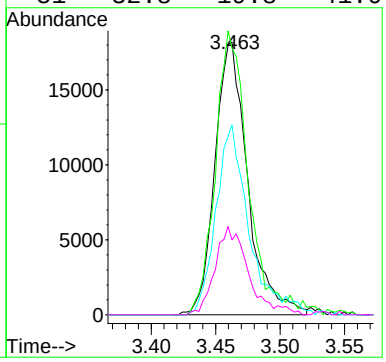


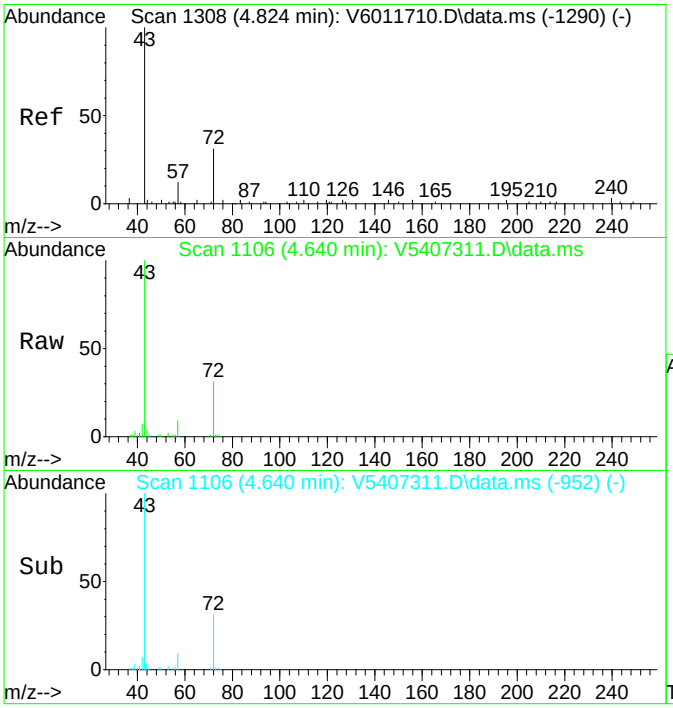


#18
Methylene Chloride
Concen: 3.60 ppb
RT: 3.463 min Scan# 740
Delta R.T. -0.000 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion: 49 Resp: 32204

Ion	Ratio	Lower	Upper
49	100		
84	103.2	55.8	115.8
86	70.2	35.1	72.9
51	32.8	19.8	41.0

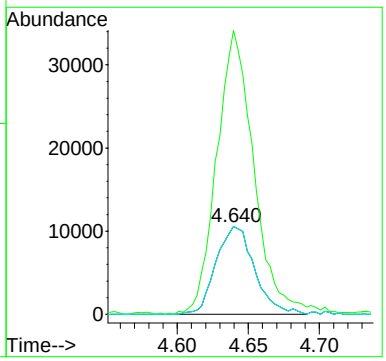


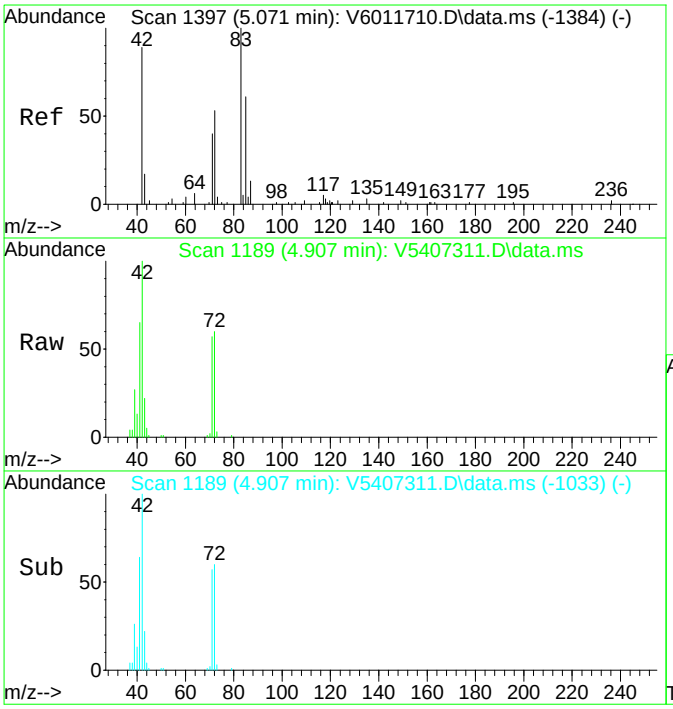


#27
2-Butanone
Concen: 13.12 ppb
RT: 4.640 min Scan# 1106
Delta R.T. -0.003 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion: 72 Resp: 19881

Ion	Ratio	Lower	Upper
72	100		
43	315.3	272.2	408.2
72	100.0	50.0	150.0

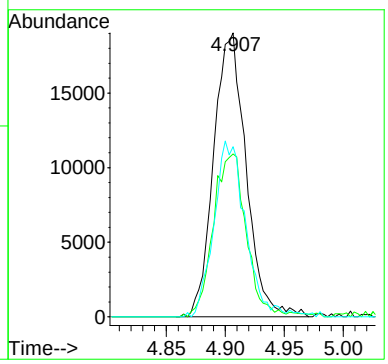


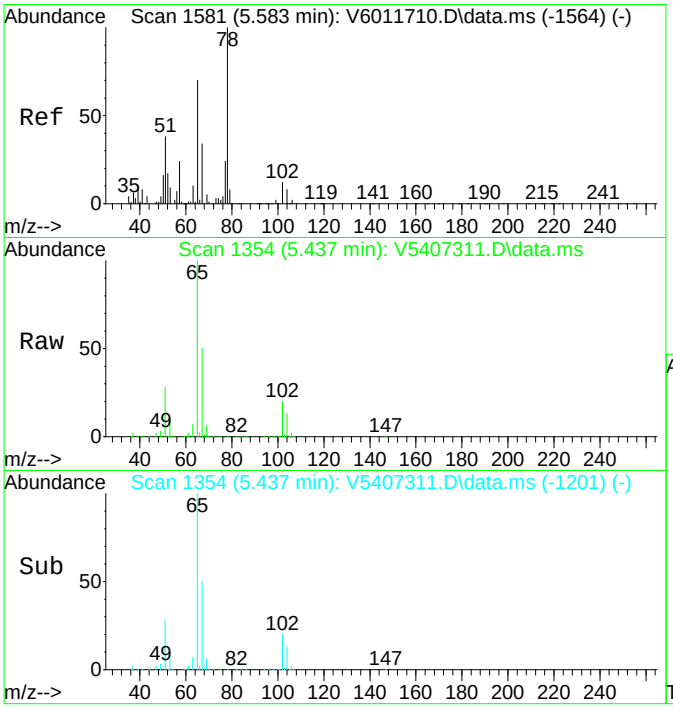


#29
Tetrahydrofuran
Concen: 13.32 ppb
RT: 4.907 min Scan# 1189
Delta R.T. 0.003 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion: 42 Resp: 36456

Ion	Ratio	Lower	Upper
42	100		
71	57.9	27.5	64.1
72	59.9	28.8	67.2

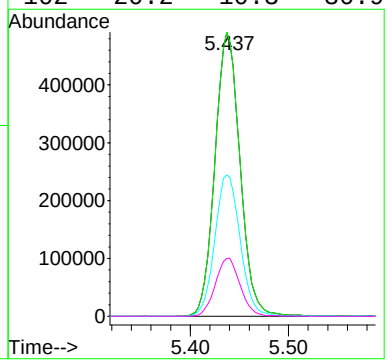


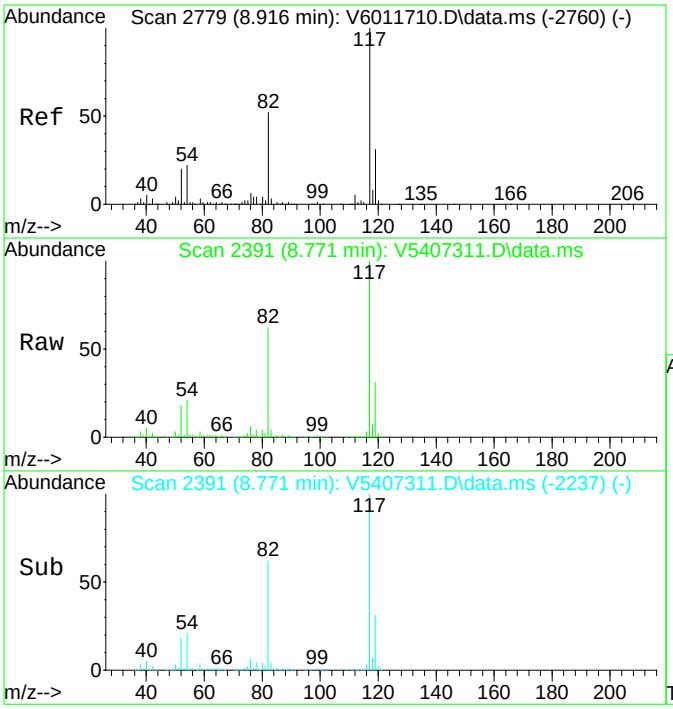


#35
d4-1,2-Dichloroethane (SURR)
Concen: 51.52 ppb
RT: 5.437 min Scan# 1354
Delta R.T. -0.007 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion: 65 Resp: 872040

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.4	34.2	71.0
102	20.2	10.3	30.9

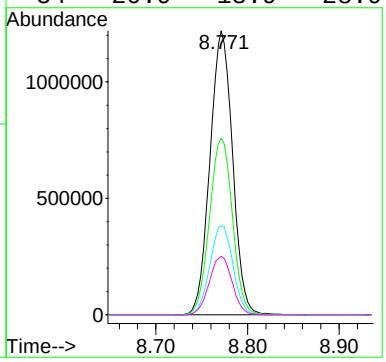


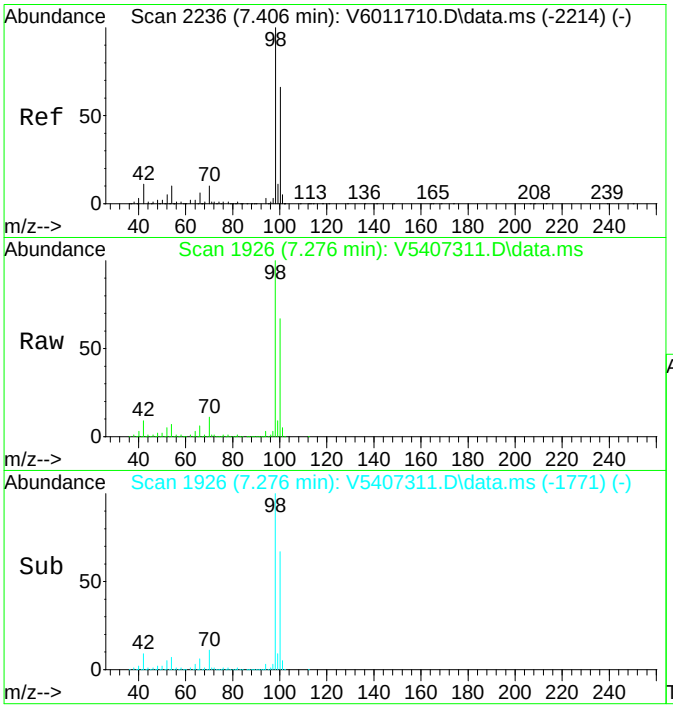


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.771 min Scan# 2391
Delta R.T. -0.004 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion:117 Resp: 2090412

Ion	Ratio	Lower	Upper
117	100		
82	63.0	38.3	79.5
119	32.2	20.9	43.3
54	20.9	13.9	28.9

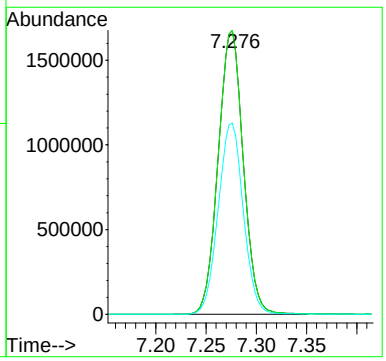


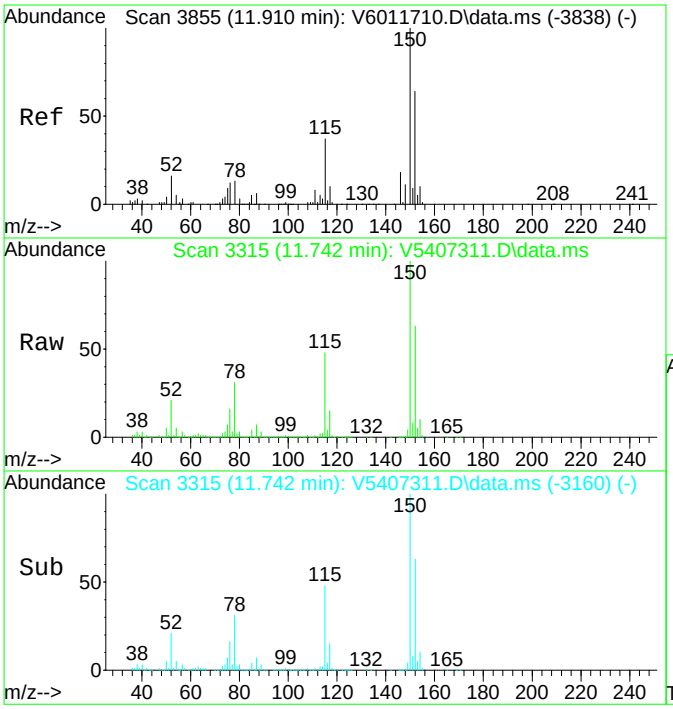


#53
Toluene-d8 (SURR)
Concen: 47.23 ppb
RT: 7.276 min Scan# 1926
Delta R.T. -0.000 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion: 98 Resp: 2906806

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	67.5	43.0	89.4

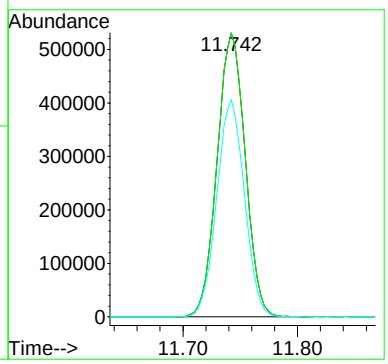


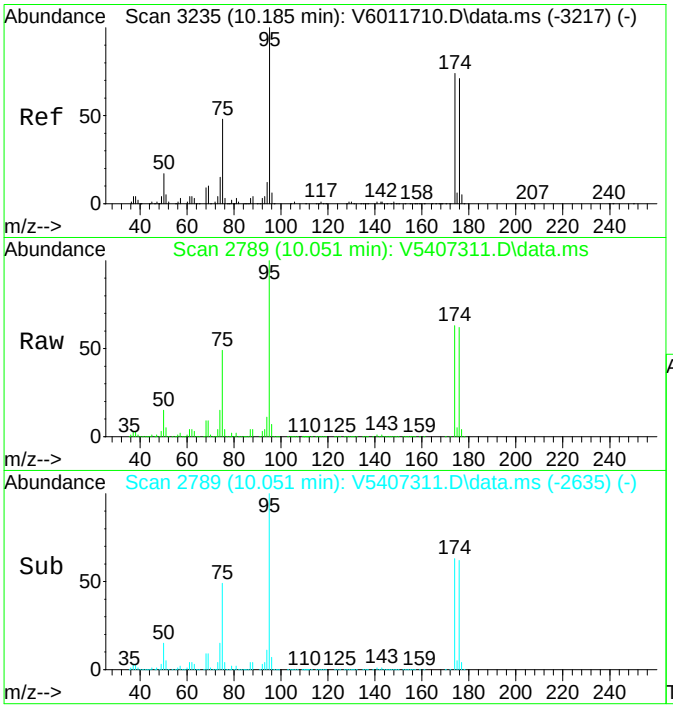


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.742 min Scan# 3315
Delta R.T. -0.000 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion:152 Resp: 905095

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	75.6	44.9	134.7

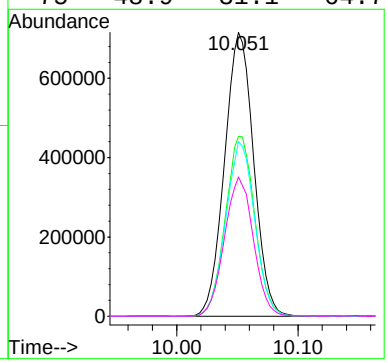




#73
p-Bromofluorobenzene (SURR)
Concen: 47.45 ppb
RT: 10.051 min Scan# 2789
Delta R.T. -0.003 min
Lab File: V5407311.D
Acq: 6 Feb 2020 4:21 pm

Tgt Ion: 95 Resp: 1190636

Ion	Ratio	Lower	Upper
95	100		
174	64.1	42.8	88.8
176	61.2	41.3	85.7
75	48.9	31.1	64.7



FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

Client: Roux Associates

Calibration: YB00013

SDG: 20B0093

Project: 3475.00014000 Lafayette

Instrument: QVOA9

Calibration Date: 01/30/20 12:14

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	0.2814159	2	0.2950989	4	0.2228112	10	0.27314	20	0.2479112	40	0.255181
1,1,1-Trichloroethane	0.5	2.139042	2	2.107356	4	1.665894	10	2.029284	20	1.795677	40	1.878384
1,1,2,2-Tetrachloroethane	0.5	0.619757	2	0.7045517	4	0.5119384	10	0.6032933	20	0.5381032	40	0.5530557
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.5	0.9365809	2	1.288883	4	0.8002279	10	0.9224968	20	0.8978061	40	0.8368283
1,1,2-Trichloroethane	0.5	0.1965489	2	0.2141329	4	0.1537098	10	0.1884704	20	0.1607748	40	0.1689932
1,1-Dichloroethane	0.5	2.179609	2	2.186211	4	1.679545	10	2.027094	20	1.788281	40	1.785745
1,1-Dichloroethylene	0.5	1.888036	2	1.850637	4	1.384214	10	1.683665	20	1.46707	40	1.512372
1,1-Dichloropropylene	0.5	1.714614	2	1.668923	4	1.303346	10	1.579512	20	1.383932	40	1.436104
1,2,3-Trichlorobenzene	0.5	0.4910535	2	0.5047778	4	0.3632048	10	0.42087	20	0.3959024	40	0.4190531
1,2,3-Trichloropropane	0.5	0.1936493	2	0.2443823	4	0.1746767	10	0.2004886	20	0.1716277	40	0.1821545
1,2,4,5-Tetramethylbenzene	0.5	2.540542	2	3.915247	4	2.430903	10	2.935182	20	2.756405	40	2.607433
1,2,4-Trichlorobenzene	0.5	0.6700504	2	0.7402711	4	0.5331951	10	0.646683	20	0.59354	40	0.6468251
1,2,4-Trimethylbenzene	0.5	4.318762	2	4.713787	4	3.349776	10	3.897389	20	3.442455	40	3.531558
1,2-Dibromo-3-chloropropane	0.5	7.484605E-02	2	0.1396423	4	0.1069557	10	0.1231892	20	0.1129436	40	0.115661
1,2-Dibromoethane	0.5	0.1840542	2	0.2009022	4	0.145397	10	0.1788332	20	0.1614372	40	0.1672309
1,2-Dichlorobenzene	0.5	1.650441	2	1.746722	4	1.256342	10	1.471811	20	1.311061	40	1.330878
1,2-Dichloroethane	0.5	1.69281	2	1.677715	4	1.255417	10	1.535187	20	1.360997	40	1.407674
1,2-Dichloropropane	0.5	0.2860406	2	0.3164776	4	0.2259165	10	0.2643419	20	0.2281417	40	0.23422
1,3,5-Trimethylbenzene	0.5	4.394268	2	4.604243	4	3.43082	10	3.923583	20	3.432444	40	3.525113
1,3-Dichlorobenzene	0.5	1.905472	2	2.003163	4	1.464703	10	1.737282	20	1.546089	40	1.571173
1,3-Dichloropropane	0.5	0.3485143	2	0.3765792	4	0.2703158	10	0.3335028	20	0.2845466	40	0.3022973
1,4-Dichlorobenzene	0.5	2.008567	2	2.008654	4	1.479658	10	1.770564	20	1.521304	40	1.571812
1,4-Dioxane	10	1.582128E-04	40	1.310705E-03	80	8.578008E-04	200	1.146261E-03	400	8.408829E-04	800	9.882397E-04
2,2-Dichloropropane	0.5	1.898178	2	1.800453	4	1.43756	10	1.663832	20	1.598961	40	1.688459
2-Butanone	0.5		2	0.1165523	4	6.439878E-02	10	6.960796E-02	20	0.057657	40	5.748438E-02
2-Chlorotoluene	0.5	3.643828	2	3.895737	4	2.813574	10	3.216968	20	2.836182	40	2.956289
2-Hexanone	0.5	0.1055563	2	0.106043	4	7.431381E-02	10	9.479695E-02	20	8.182239E-02	40	8.551647E-02
4-Chlorotoluene	0.5	4.29157	2	4.412116	4	3.252977	10	3.813554	20	3.323692	40	3.42681
4-Methyl-2-pentanone	0.5	0.1351299	2	0.1524689	4	0.1084908	10	0.1296406	20	0.1198308	40	0.1188173
Acetone	0.5	0.1705487	2	0.2483933	4	0.1673129	10	0.2061894	20	0.1682686	40	0.1525784
Acrolein	0.5	7.487915E-02	2	8.251249E-02	4	4.617045E-02	10	6.265951E-02	20	5.016163E-02	40	5.528186E-02

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 20B0093

Client: Roux Associates

Project: 3475.00014000 Lafayette

Calibration: YB00013

Instrument: QVOA9

Calibration Date: 01/30/20 12:14

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	2.590915E-02	4	1.347138E-02	10	2.983551E-02	20	1.138313E-02	40	0.0257544
Benzene	0.5	4.647916	2	4.755536	4	3.651023	10	4.319192	20	3.781609	40	3.878077
Bromobenzene	0.5	2.025199	2	2.118884	4	1.532008	10	1.794251	20	1.599939	40	1.654193
Bromochloromethane	0.5	0.7572428	2	0.7473196	4	0.5763511	10	0.6632967	20	0.5906383	40	0.5492959
Bromodichloromethane	0.5	0.3503804	2	0.3990851	4	0.2985523	10	0.3746919	20	0.3323466	40	0.3542744
Bromoform	0.5	9.517106E-02	2	0.1123715	4	8.362473E-02	10	0.1123852	20	0.111103	40	0.1166178
Bromomethane	0.5		2		4	2.588343E-02	10	5.392456E-02	20	6.268695E-02	40	7.015301E-02
Carbon disulfide	0.5	2.674859	2	2.520268	4	1.962744	10	2.350888	20	2.127568	40	2.18868
Carbon tetrachloride	0.5	1.634326	2	1.58147	4	1.361469	10	1.59005	20	1.596634	40	1.661587
Chlorobenzene	0.5	0.8814074	2	0.9060723	4	0.6624354	10	0.7974711	20	0.6824826	40	0.7126376
Chloroethane	0.5	0.493053	2	0.6040412	4	0.3804565	10	0.3945137	20	0.4248524	40	0.3748592
Chloroform	0.5	2.261756	2	2.343145	4	1.814739	10	2.082006	20	1.864355	40	1.916142
Chloromethane	0.5	0.5263514	2	0.5122699	4	0.3472178	10	0.3928342	20	0.4252058	40	0.3838945
cis-1,2-Dichloroethylene	0.5	2.099659	2	2.036825	4	1.541553	10	1.857458	20	1.619413	40	1.712301
cis-1,3-Dichloropropylene	0.5	0.380238	2	0.42346	4	0.3195995	10	0.3995232	20	0.3713626	40	0.3950469
Cyclohexane	0.5	4.464859	2	4.915037	4	3.528042	10	4.080401	20	3.683949	40	3.628411
Dibromochloromethane	0.5	0.1909912	2	0.2363323	4	0.1731755	10	0.2256659	20	0.2100974	40	0.224738
Dibromomethane	0.5	0.1471784	2	0.1494925	4	0.1069816	10	0.1329767	20	0.1165686	40	0.1202869
Dichlorodifluoromethane	0.5	1.127751	2	1.553732	4	0.9013631	10	1.011666	20	1.068609	40	0.9274317
Ethyl Benzene	0.5	1.619044	2	1.676941	4	1.197035	10	1.446388	20	1.262743	40	1.295485
Hexachlorobutadiene	0.5	0.3135086	2	0.3166054	4	0.2492754	10	0.2767918	20	0.2607687	40	0.2680612
Isopropylbenzene	0.5	5.289253	2	5.450202	4	4.029081	10	4.703493	20	4.016287	40	4.198245
Methyl acetate	0.5	0.3402522	2	0.4516207	4	0.2799408	10	0.343166	20	0.326042	40	0.3022659
Methyl tert-butyl ether (MTBE)	0.5	2.840844	2	3.005034	4	2.245083	10	2.652207	20	2.416607	40	2.503521
Methylcyclohexane	0.5	0.425065	2	0.6213462	4	0.3724563	10	0.4344556	20	0.4024105	40	0.3692521
Methylene chloride	0.5	1.361685	2	1.188086	4	0.9308842	10	1.10351	20	1.054756	40	1.022048
Naphthalene	0.5	~~1.941377~~	2	1.580249	4	1.084896	10	1.238453	20	1.140537	40	1.196281
n-Butylbenzene	0.5	4.467398	2	4.827253	4	3.358829	10	3.93048	20	3.552007	40	3.491835
n-Propylbenzene	0.5	6.183577	2	6.286487	4	4.61002	10	5.306431	20	4.640003	40	4.813935
o-Xylene	0.5	1.286878	2	1.329928	4	0.9748841	10	1.200502	20	1.033855	40	1.050195
p- & m- Xylenes	1	1.288298	4	1.32751	8	0.9630418	20	1.16357	40	1.021914	80	1.060486

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 20B0093

Client: Roux Associates

Project: 3475.00014000 Lafayette

Calibration: YB00013

Instrument: QVOA9

Calibration Date: 01/30/20 12:14

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	1.923689	2	2.531373	4	1.579848	10	1.885694	20	1.755423	40	1.636683
p-Ethyltoluene	0.5	4.090924	2	5.777886	4	3.51991	10	4.063993	20	3.782616	40	3.537529
p-Isopropyltoluene	0.5	4.344899	2	4.482412	4	3.318538	10	3.873657	20	3.310501	40	3.412486
sec-Butylbenzene	0.5	4.848889	2	5.069739	4	3.72664	10	4.251036	20	3.748935	40	3.823461
Styrene	0.5	0.8810828	2	0.9495811	4	0.6990667	10	0.85169	20	0.7557779	40	0.7733094
SURR: 1,2-Dichloroethane-d4	10	1.364322	10	1.343611	10	1.360593	10	1.385952	10	1.403724	10	1.410602
SURR: p-Bromofluorobenzene	10	1.613084	10	1.716323	10	1.680704	10	1.660065	10	1.662004	10	1.670324
SURR: Toluene-d8	10	1.28143	10	1.307159	10	1.278061	10	1.332555	10	1.286901	10	1.296286
tert-Butyl alcohol (TBA)	0.5		2	8.935935E-02	4	5.590422E-02	10	6.548335E-02	20	5.800181E-02	40	5.920718E-02
tert-Butylbenzene	0.5	4.167222	2	4.221036	4	3.090184	10	3.565253	20	3.188836	40	3.281523
Tetrachloroethylene	0.5	0.3682706	2	0.3862105	4	0.2697371	10	0.3250112	20	0.2687948	40	0.2839398
Toluene	0.5	1.407323	2	1.385659	4	1.009741	10	1.214944	20	1.036967	40	1.080433
trans-1,2-Dichloroethylene	0.5	1.679456	2	1.68604	4	1.306404	10	1.592791	20	1.385328	40	1.403302
trans-1,3-Dichloropropylene	0.5	0.2996712	2	0.3320221	4	0.2580346	10	0.3334342	20	0.3277483	40	0.3505455
trans-1,4-dichloro-2-butene	0.5	0.036565	2	4.869345E-02	4	2.178461E-02	10	3.830705E-02	20	3.363385E-02	40	3.374495E-02
Trichloroethylene	0.5	0.3191841	2	0.3508199	4	0.24774	10	0.3069913	20	0.2503	40	0.2629206
Trichlorofluoromethane	0.5	1.688246	2	2.27487	4	1.389151	10	1.622289	20	1.582505	40	1.5345
Vinyl acetate	0.5	1.17136	2	1.194894	4	0.8431004	10	1.016367	20	0.9864618	40	1.000108
Vinyl Chloride	0.5	0.6573476	2	0.6610336	4	0.4938839	10	0.6429783	20	0.8057282	40	0.7651465

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YB00013 Instrument: QVOA9

Calibration Date: 01/30/20 12:14

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	0.2750962	120	0.2564385	160	0.2568137						
1,1,1-Trichloroethane	80	2.025476	120	1.890608	160	1.948787						
1,1,2,2-Tetrachloroethane	80	0.5611448	120	0.5340102	160	0.5786718						
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	80	0.9125845	120	0.8943254	160	0.828157						
1,1,2-Trichloroethane	80	0.1851193	120	0.1701648	160	0.1763507						
1,1-Dichloroethane	80	1.906168	120	1.686508	160	1.772607						
1,1-Dichloroethylene	80	1.617148	120	1.473447	160	1.520009						
1,1-Dichloropropylene	80	1.546385	120	1.391805	160	1.40754						
1,2,3-Trichlorobenzene	80	0.4641507	120	0.4436049	160	0.5029841						
1,2,3-Trichloropropane	80	0.1834545	120	0.173079	160	0.1820344						
1,2,4,5-Tetramethylbenzene	80	2.759518	120	2.676621	160	2.890969						
1,2,4-Trichlorobenzene	80	0.6710485	120	0.6457519	160	0.7275499						
1,2,4-Trimethylbenzene	80	3.470783	120	3.29218	160	3.426683						
1,2-Dibromo-3-chloropropane	80	0.118274	120	0.1132745	160	0.1225575						
1,2-Dibromoethane	80	0.1778694	120	0.1624456	160	0.1685229						
1,2-Dichlorobenzene	80	1.345671	120	1.267468	160	1.333622						
1,2-Dichloroethane	80	1.50724	120	1.318077	160	1.310557						
1,2-Dichloropropane	80	0.250589	120	0.2361019	160	0.2442767						
1,3,5-Trimethylbenzene	80	3.494605	120	3.303291	160	3.445223						
1,3-Dichlorobenzene	80	1.628655	120	1.551587	160	1.644116						
1,3-Dichloropropane	80	0.3223779	120	0.2965561	160	0.3043741						
1,4-Dichlorobenzene	80	1.584933	120	1.523488	160	1.605255						
1,4-Dioxane	1600	1.01385E-03	2400	1.023058E-03	3200	9.403937E-04						
2,2-Dichloropropane	80	1.795244	120	1.688783	160	1.70081						
2-Butanone	80	6.218401E-02	120	5.889327E-02	160	5.761063E-02						
2-Chlorotoluene	80	2.985177	120	2.856395	160	2.941837						
2-Hexanone	80	8.837119E-02	120	7.932148E-02	160	8.213493E-02						
4-Chlorotoluene	80	3.425299	120	3.227168	160	3.41095						
4-Methyl-2-pentanone	80	0.1305627	120	0.1228115	160	0.1200319						
Acetone	80	0.1589454	120	0.1374773	160	0.1374265						
Acrolein	80	6.182093E-02	120	5.727921E-02	160	6.187231E-02						

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YB00013 Instrument: QVOA9

Calibration Date: 01/30/20 12:14

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	2.466747E-02	120	2.230779E-02	160	2.339346E-02						
Benzene	80	4.240196	120	3.862085	160	3.920206						
Bromobenzene	80	1.662666	120	1.592224	160	1.660233						
Bromochloromethane	80	0.6040355	120	0.5032238	160	0.5734051						
Bromodichloromethane	80	0.3872244	120	0.3651362	160	0.3791718						
Bromoform	80	0.1292542	120	0.1176542	160	0.1225783						
Bromomethane	80	9.293281E-02	120	0.1025405	160	0.1290361						
Carbon disulfide	80	2.470719	120	2.251313	160	2.416527						
Carbon tetrachloride	80	1.855913	120	1.678145	160	1.650035						
Chlorobenzene	80	0.7615701	120	0.7012073	160	0.7173568						
Chloroethane	80	0.4718514	120	0.3892659	160	0.4330577						
Chloroform	80	2.086724	120	1.817911	160	1.897944						
Chloromethane	80	0.4628539	120	0.3837966	160	0.3269301						
cis-1,2-Dichloroethylene	80	1.792448	120	1.605111	160	1.671686						
cis-1,3-Dichloropropylene	80	0.4289959	120	0.4004573	160	0.4174969						
Cyclohexane	80	3.890441	120	3.550575	160	3.419319						
Dibromochloromethane	80	0.2456206	120	0.2293259	160	0.238797						
Dibromomethane	80	0.1304429	120	0.1188214	160	0.1141684						
Dichlorodifluoromethane	80	1.060882	120	0.9465185	160	0.9390832						
Ethyl Benzene	80	1.359383	120	1.22276	160	1.218327						
Hexachlorobutadiene	80	0.2917202	120	0.2815921	160	0.3148064						
Isopropylbenzene	80	4.271688	120	4.077854	160	4.17428						
Methyl acetate	80	0.3463543	120	0.3149774	160	0.3291019						
Methyl tert-butyl ether (MTBE)	80	2.703556	120	2.482196	160	2.50966						
Methylcyclohexane	80	0.4328461	120	0.4120674	160	0.3946018						
Methylene chloride	80	1.179729	120	1.03047	160	1.123312						
Naphthalene	80	1.284581	120	1.224095	160	1.35227						
n-Butylbenzene	80	3.537051	120	3.304437	160	3.37184						
n-Propylbenzene	80	4.836526	120	4.555113	160	4.707863						
o-Xylene	80	1.110187	120	1.004418	160	0.9960552						
p- & m- Xylenes	160	1.096567	240	0.9849133	320	0.9593419						

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YB00013 Instrument: QVOA9

Calibration Date: 01/30/20 12:14

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	1.687422	120	1.593107	160	1.659618						
p-Ethyltoluene	80	3.626893	120	3.449973	160	3.62288						
p-Isopropyltoluene	80	3.485454	120	3.326892	160	3.415442						
sec-Butylbenzene	80	3.878223	120	3.668488	160	3.83687						
Styrene	80	0.8128135	120	0.7427137	160	0.7255735						
SURR: 1,2-Dichloroethane-d4	10	1.415389	10	1.347687	10	1.269808						
SURR: p-Bromofluorobenzene	10	1.614516	10	1.661057	10	1.679323						
SURR: Toluene-d8	10	1.305356	10	1.339023	10	1.345085						
tert-Butyl alcohol (TBA)	80	6.498715E-02	120	6.041818E-02	160	6.263435E-02						
tert-Butylbenzene	80	3.274812	120	3.106634	160	3.286051						
Tetrachloroethylene	80	0.3068693	120	0.2895337	160	0.3001965						
Toluene	80	1.162484	120	1.087541	160	1.126761						
trans-1,2-Dichloroethylene	80	1.535436	120	1.361826	160	1.381909						
trans-1,3-Dichloropropylene	80	0.3805494	120	0.3474725	160	0.3592759						
trans-1,4-dichloro-2-butene	80	3.347254E-02	120	3.124059E-02	160	0.0317424						
Trichloroethylene	80	0.2890355	120	0.2759544	160	0.2857822						
Trichlorofluoromethane	80	1.765666	120	1.529462	160	1.543253						
Vinyl acetate	80	1.070736	120	0.9663411	160	0.9514879						
Vinyl Chloride	80	0.9654226	120	0.777098	160	0.9261674						

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Calibration: YB00013
Instrument: QVOA9
Calibration Date: 01/30/20 12:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2626563	8.079583	8.965667	3.605484E-02			20	
1,1,1-Trichloroethane	1.942279	7.832235	5.184111	3.158943E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.5782807	10.08247	10.24767	2.186751E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.92421	15.63774	3.041333	9.267315E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.1793628	10.47725	7.817	2.253254E-02			SPCC (0.1)	
1,1-Dichloroethane	1.890196	10.43721	4.164444	6.407705E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.599622	10.99361	3.026778	4.277759E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.492462	9.447205	5.333	2.818423E-02			20	
1,2,3-Trichlorobenzene	0.4450668	11.17278	14.248	2.276384E-02			20	
1,2,3-Trichloropropane	0.1895052	11.95347	10.31733	2.747627E-02			20	
1,2,4,5-Tetramethylbenzene	2.834758	15.37079	12.714	1.890339E-02			20	
1,2,4-Trichlorobenzene	0.6527683	9.659891	13.70333	2.348801E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	3.71593	13.31432	11.02444	2.953381E-02			20	
1,2-Dibromo-3-chloropropane	0.1141493	15.23766	12.73867	1.804809E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1718547	9.216546	8.353333	3.214593E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.412668	12.38531	11.85556	2.263015E-02			SPCC (0.4)	
1,2-Dichloroethane	1.451742	11.04652	5.544	4.682522E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2540118	11.90207	6.377667	3.098969E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	3.728177	12.658	10.605	3.612413E-02			20	
1,3-Dichlorobenzene	1.672471	10.66628	11.34467	2.506312E-02			SPCC (0.6)	
1,3-Dichloropropane	0.3154516	10.54294	7.985333	1.617061E-02			20	
1,4-Dichlorobenzene	1.674915	12.30995	11.46322	1.097053E-02			SPCC (0.5)	
1,4-Dioxane	9.199338E-04	34.77648	6.447444	0.1471068		0.9981755	0.99	
2,2-Dichloropropane	1.69692	7.767923	4.706333	0.0238155			20	
2-Butanone	6.804854E-02	29.47	4.65475	5.511707E-02		0.9991054	SPCC (0.1)	
2-Chlorotoluene	3.127332	12.41389	10.50122	3.202952E-02			20	
2-Hexanone	8.865295E-02	12.72204	8.012333	4.490087E-02			SPCC (0.1)	
4-Chlorotoluene	3.62046	12.39736	10.63533	3.913929E-02			20	
4-Methyl-2-pentanone	0.1264205	9.920991	7.165889	1.934716E-02			SPCC (0.1)	
Acetone	0.1719045	20.54373	3.033667	0.1414403		0.9977431	SPCC (0.1)	
Acrolein	6.140417E-02	18.58679	2.905333	5.267826E-02			20	
Acrylonitrile	2.209029E-02	28.90089	3.75775	0.1141928		0.9930095	0.99	

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YB00013 Instrument: QVOA9

Calibration Date: 01/30/20 12:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	4.117316	9.546901	5.511667	4.516983E-02			SPCC (0.5)	
Bromobenzene	1.737733	11.72677	10.28544	2.324872E-02			20	
Bromochloromethane	0.6183121	14.09052	4.912778	3.956857E-02			20	
Bromodichloromethane	0.3600959	8.528018	6.625667	3.012991E-02			SPCC (0.2)	
Bromoform	0.1111956	12.50396	9.75	0.0130112			SPCC (0.1)	
Bromomethane	7.673677E-02	44.54484	2.159714	0.1077653		0.9982201	SPCC (0.1)	
Carbon disulfide	2.329285	9.416481	3.259333	5.339311E-02			SPCC (0.1)	
Carbon tetrachloride	1.623292	7.899302	5.346555	6.440664E-02			SPCC (0.1)	
Chlorobenzene	0.7580712	11.47118	8.873667	3.154409E-02			SPCC (0.5)	
Chloroethane	0.4406612	16.72305	2.273	0.1484525			SPCC (0.1)	
Chloroform	2.009414	9.685767	5.004333	3.435485E-02			SPCC (0.2)	
Chloromethane	0.4179282	16.69811	1.760889	0.7624892			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.770717	10.99195	4.691111	0.0285072			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.3929089	8.510261	7.054	3.600481E-02			SPCC (0.2)	
Cyclohexane	3.906782	12.77754	5.287	7.009071E-02			SPCC (0.1)	
Dibromochloromethane	0.219416	10.86554	8.221	1.985397E-02			SPCC (0.1)	
Dibromomethane	0.1263242	11.68369	6.460333	3.214007E-02			20	
Dichlorodifluoromethane	1.059671	18.90356	1.568556	9.123184E-02			SPCC (0.1)	
Ethyl Benzene	1.366456	13.03298	8.979333	2.909067E-02			SPCC (0.1)	
Hexachlorobutadiene	0.2859033	8.715484	13.885	2.349537E-02			20	
Isopropylbenzene	4.46782	12.36386	9.939333	1.931209E-02			SPCC (0.1)	
Methyl acetate	0.3370801	14.22897	3.349667	8.687781E-02			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	2.595412	8.893827	3.759222	9.298185E-02			SPCC (0.1)	
Methylcyclohexane	0.429389	17.65962	6.399	5.038556E-02			SPCC (0.1)	
Methylene chloride	1.110498	11.19829	3.486889	4.170034E-02			SPCC (0.1)	
Naphthalene	1.26267	12.06172	13.9905	1.807601E-02			20	
n-Butylbenzene	3.760126	14.42182	11.85167	2.790108E-02			20	
n-Propylbenzene	5.104439	13.28338	10.40389	3.146578E-02			20	
o-Xylene	1.109656	11.9047	9.533333	0.0448504			SPCC (0.3)	
p- & m- Xylenes	1.096182	12.51592	9.121667	4.926406E-02			SPCC (0.1)	
p-Diethylbenzene	1.805873	16.49147	11.82589	0.0173588			20	
p-Ethyltoluene	3.9414	18.4227	10.54067	3.018123E-02			20	

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YB00013 Instrument: QVOA9

Calibration Date: 01/30/20 12:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p-Isopropyltoluene	3.663365	12.55469	11.39022	3.402583E-02			20	
sec-Butylbenzene	4.094698	12.71205	11.21256	0.0306131			20	
Styrene	0.7990676	10.22964	9.551334	3.228731E-02			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	1.366854	3.308945	5.470667	6.047974E-02			20	
SURR: p-Bromofluorobenzene	1.661933	1.94074	10.13078	1.745974E-02			20	
SURR: Toluene-d8	1.307984	1.936611	7.334333	2.028137E-02			20	
tert-Butyl alcohol (TBA)	6.449945E-02	16.40226	3.56925	0.1339205			20	
tert-Butylbenzene	3.464617	12.58861	10.96089	3.886079E-02			20	
Tetrachloroethylene	0.3109515	13.42609	7.950667	4.597121E-02			SPCC (0.2)	
Toluene	1.167984	12.29377	7.403667	4.639132E-02			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.481388	9.740881	3.768333	4.242784E-02			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.3320837	10.76323	7.613667	2.533189E-02			SPCC (0.1)	
trans-1,4-dichloro-2-butene	3.435383E-02	20.64227	10.40278	5.122675E-02		0.9992277	0.99	
Trichloroethylene	0.2876364	11.72583	6.145111	0.0186999			SPCC (0.2)	
Trichlorofluoromethane	1.658882	15.32777	2.529	0.1281306			SPCC (0.1)	
Vinyl acetate	1.022317	10.73895	4.153	4.929615E-02			20	
Vinyl Chloride	0.7438673	19.86701	1.845	0.1147833			SPCC (0.1)	

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 20B0093

Client: Roux Associates

Project: 3475.00014000 Lafayette

Calibration: YL90031

Instrument: VOA No. 5

Calibration Date: 12/30/19 12:43

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	5	0.1780193	10	0.1868267	20	0.1785867	50	0.1870703	100	0.206577	200	0.1969351
1,1,1-Trichloroethane	5	1.145334	10	1.173147	20	1.120978	50	1.154053	100	1.275487	200	1.23067
1,1,2,2-Tetrachloroethane	5	0.8325584	10	0.801403	20	0.7420852	50	0.7662044	100	0.7943998	200	0.755877
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	5	0.6962387	10	0.6996613	20	0.662949	50	0.6697667	100	0.7148462	200	0.66076
1,1,2-Trichloroethane	5	0.2423025	10	0.2478205	20	0.2265846	50	0.2317144	100	0.2463534	200	0.2365383
1,1-Dichloroethane	5	1.387804	10	1.404153	20	1.294071	50	1.306161	100	1.391486	200	1.321499
1,1-Dichloroethylene	5	1.079434	10	1.084732	20	0.9773398	50	0.998279	100	1.056134	200	1.005428
1,1-Dichloropropylene	5	1.214099	10	1.222607	20	1.135867	50	1.124169	100	1.19634	200	1.125675
1,2,3-Trichlorobenzene	5	0.6972314	10	0.6896788	20	0.6398126	50	0.6499137	100	0.7009488	200	0.6810065
1,2,3-Trichloropropane	5	0.2540372	10	0.2508079	20	0.2284894	50	0.2348778	100	0.2455374	200	0.2387684
1,2,4,5-Tetramethylbenzene	5	2.07701	10	2.101288	20	2.037726	50	2.093477	100	2.262928	200	2.186598
1,2,4-Trichlorobenzene	5	0.7504857	10	0.7199266	20	0.684538	50	0.6760121	100	0.7254236	200	0.7122059
1,2,4-Trimethylbenzene	5	2.600879	10	2.527523	20	2.351746	50	2.34104	100	2.506996	200	2.370063
1,2-Dibromo-3-chloropropane	5	0.1329344	10	0.1411035	20	0.15029	50	0.1574808	100	0.1914071	200	0.1982503
1,2-Dibromoethane	5	0.2318631	10	0.2330013	20	0.2170232	50	0.2235006	100	0.2383112	200	0.2296817
1,2-Dichlorobenzene	5	1.134917	10	1.087633	20	0.9941847	50	0.9956971	100	1.061529	200	1.023113
1,2-Dichloroethane	5	1.200101	10	1.212964	20	1.125125	50	1.131603	100	1.204913	200	1.185479
1,2-Dichloropropane	5	0.237171	10	0.2374741	20	0.2218384	50	0.2233437	100	0.2367234	200	0.2232294
1,3,5-Trimethylbenzene	5	2.611181	10	2.524057	20	2.364416	50	2.34322	100	2.511122	200	2.374377
1,3-Dichlorobenzene	5	1.180311	10	1.143233	20	1.054821	50	1.051806	100	1.123466	200	1.090172
1,3-Dichloropropane	5	0.4385465	10	0.4394468	20	0.4017236	50	0.4086561	100	0.433564	200	0.4130304
1,4-Dichlorobenzene	5	1.211176	10	1.171117	20	1.083263	50	1.070922	100	1.140152	200	1.102925
1,4-Dioxane	100	4.013981E-03	200	0.0038857	400	3.705708E-03	1000	3.745666E-03	2000	4.129416E-03	4000	4.173287E-03
2,2-Dichloropropane	5	1.077035	10	1.109749	20	1.054591	50	1.109018	100	1.231892	200	1.206685
2-Butanone	5	0.1325156	10	0.1403618	20	0.1195195	50	0.1262729	100	0.1365526	200	0.1334219
2-Chlorotoluene	5	2.660184	10	2.354386	20	2.164643	50	2.149644	100	2.332079	200	2.178517
2-Hexanone	5	0.1699986	10	0.1738947	20	0.1641394	50	0.1740951	100	0.1867099	200	0.1828241
4-Chlorotoluene	5	2.765706	10	2.681291	20	2.472623	50	2.454537	100	2.619134	200	2.474263
4-Methyl-2-pentanone	5	0.2331849	10	0.2403188	20	0.2234946	50	0.2337339	100	0.245107	200	0.2399581
Acetone	5	~~0.3264958~~	10	0.3307922	20	0.2699174	50	0.2609308	100	0.315624	200	0.2990882
Acrolein	5	0.1190969	10	0.1187849	20	0.1136207	50	0.1139134	100	0.1183591	200	0.1193572

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 20B0093

Client: Roux Associates

Project: 3475.00014000 Lafayette

Calibration: YL90031

Instrument: VOA No. 5

Calibration Date: 12/30/19 12:43

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	5	0.2965994	10	0.300302	20	0.2771692	50	0.2942686	100	0.3022606	200	0.2999153
Benzene	5	3.577444	10	3.60259	20	3.280439	50	3.2333	100	3.418285	200	3.184915
Bromobenzene	5	1.321599	10	1.305739	20	1.213521	50	1.216039	100	1.308276	200	1.21961
Bromochloromethane	5	0.5531245	10	0.5590927	20	0.532181	50	0.529722	100	0.5380733	200	0.5312633
Bromodichloromethane	5	0.277188	10	0.2950706	20	0.2869429	50	0.3093147	100	0.3466861	200	0.342893
Bromoform	5	7.739382E-02	10	8.781707E-02	20	9.257118E-02	50	0.1139443	100	0.1349583	200	0.1390336
Bromomethane	5	0.51197	10	0.4647275	20	0.3947073	50	0.3977479	100	0.4126589	200	0.4477068
Carbon disulfide	5	1.801305	10	1.874927	20	1.816493	50	1.966592	100	2.190929	200	2.153113
Carbon tetrachloride	5	0.7792869	10	0.8426133	20	0.8153849	50	0.8573965	100	0.9546382	200	0.9273743
Chlorobenzene	5	0.7123747	10	0.7152618	20	0.6466393	50	0.6447942	100	0.6888869	200	0.6577642
Chloroethane	5	0.4448763	10	0.4122985	20	0.3544995	50	0.3768343	100	0.3857894	200	0.380857
Chloroform	5	1.469123	10	1.515408	20	1.40393	50	1.406257	100	1.513486	200	1.451289
Chloromethane	5	0.6522298	10	0.6144908	20	0.5548508	50	0.5538518	100	0.5723492	200	0.5592338
cis-1,2-Dichloroethylene	5	1.245474	10	1.252368	20	1.170368	50	1.170838	100	1.248301	200	1.184566
cis-1,3-Dichloropropylene	5	0.3748689	10	0.3983221	20	0.381934	50	0.4062339	100	0.4506387	200	0.4394408
Cyclohexane	5	1.115733	10	1.194879	20	0.9448566	50	1.076001	100	1.03948	200	1.042123
Dibromochloromethane	5	0.1396217	10	0.154799	20	0.1585578	50	0.1799425	100	0.2070107	200	0.2057703
Dibromomethane	5	0.1549226	10	0.1597184	20	0.1486294	50	0.1523517	100	0.1636214	200	0.1578865
Dichlorodifluoromethane	5	0.8287088	10	0.8227536	20	0.7448903	50	0.7260297	100	0.7632163	200	0.7346572
Ethyl Benzene	5	1.352061	10	1.345949	20	1.235292	50	1.222006	100	1.291404	200	1.189419
Hexachlorobutadiene	5	0.3557442	10	0.3494259	20	0.323898	50	0.3254589	100	0.3574379	200	0.3515399
Isopropylbenzene	5	3.064685	10	3.04524	20	2.834129	50	2.82114	100	3.035061	200	2.822819
Methyl acetate	5	0.5825547	10	0.5712394	20	0.54003	50	0.5693695	100	0.5826278	200	0.5621058
Methyl tert-butyl ether (MTBE)	5	2.395652	10	2.410525	20	2.256797	50	2.302273	100	2.452596	200	2.365874
Methylcyclohexane	5	0.4887157	10	0.4837793	20	0.4529062	50	0.4578743	100	0.48864	200	0.4562887
Methylene chloride	5	0.8505085	10	0.8141504	20	0.7402341	50	0.7354875	100	0.7719838	200	0.7408388
Naphthalene	5	2.0746	10	2.093016	20	1.950707	50	2.057599	100	2.217957	200	2.175277
n-Butylbenzene	5	2.838866	10	2.709957	20	2.41149	50	2.358352	100	2.569043	200	2.465001
n-Propylbenzene	5	3.832701	10	3.75556	20	3.463691	50	3.456455	100	3.67302	200	3.244399
o-Xylene	5	1.099119	10	1.103543	20	1.012855	50	1.005031	100	1.0615	200	0.9894032
p- & m- Xylenes	10	1.088218	20	1.082609	40	0.9969573	100	0.9860157	200	1.030916	400	0.8938681

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 20B0093

Client: Roux Associates

Project: 3475.00014000 Lafayette

Calibration: YL90031

Instrument: VOA No. 5

Calibration Date: 12/30/19 12:43

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	5	1.324699	10	1.307296	20	1.248686	50	1.247963	100	1.315356	200	1.262562
p-Ethyltoluene	5	2.62432	10	2.615493	20	2.476434	50	2.474766	100	2.641336	200	2.472048
p-Isopropyltoluene	5	2.568582	10	2.509714	20	2.349976	50	2.330149	100	2.507084	200	2.414982
sec-Butylbenzene	5	3.085561	10	3.025554	20	2.816619	50	2.794007	100	2.966039	200	2.803778
Styrene	5	0.7932356	10	0.8070913	20	0.757435	50	0.766238	100	0.812487	200	0.7641947
SURR: 1,2-Dichloroethane-d4	50	1.46305	50	1.472986	50	1.469543	50	1.476014	50	1.463196	50	1.465127
SURR: p-Bromofluorobenzene	50	1.383278	50	1.370688	50	1.381537	50	1.387689	50	1.39938	50	1.394358
SURR: Toluene-d8	50	1.46924	50	1.466799	50	1.465429	50	1.46754	50	1.477092	50	1.487344
tert-Butyl alcohol (TBA)	25	9.374915E-02	50	9.884598E-02	100	9.495496E-02	250	0.1048907	400	0.1112682	600	0.1156954
tert-Butylbenzene	5	2.280917	10	2.207915	20	2.09243	50	2.092054	100	2.236018	200	2.126473
Tetrachloroethylene	5	0.2340154	10	0.2451566	20	0.2142235	50	0.210586	100	0.245357	200	0.2514413
Toluene	5	1.212623	10	1.206515	20	1.096553	50	1.084262	100	1.157557	200	1.087549
trans-1,2-Dichloroethylene	5	1.069825	10	1.074825	20	0.9836661	50	0.9769998	100	1.036745	200	0.9799988
trans-1,3-Dichloropropylene	5	0.3219593	10	0.3482568	20	0.3413611	50	0.377579	100	0.4234456	200	0.415887
trans-1,4-dichloro-2-butene	5	0.9915485	10	0.9891545	20	0.9397402	50	1.002595	100	1.076363	200	1.054316
Trichloroethylene	5	0.2703991	10	0.2715264	20	0.2494635	50	0.2494335	100	0.2675015	200	0.2601412
Trichlorofluoromethane	5	1.010862	10	0.9758766	20	0.8647806	50	0.9051418	100	0.9299201	200	0.9064529
Vinyl acetate	5	1.24859	10	1.19508	20	1.214981	50	1.211556	100	1.302127	200	1.210828
Vinyl Chloride	5	0.7078834	10	0.6957617	20	0.6301374	50	0.6419042	100	0.6610272	200	0.655473

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Calibration: YL90031
Instrument: VOA No. 5
Calibration Date: 12/30/19 12:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.1890025	5.841036	8.899	1.444773E-02			20	
1,1,1-Trichloroethane	1.183278	4.931585	5.1375	4.257017E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.782088	4.283465	10.1885	2.194407E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.684037	3.29004	2.999	5.191406E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.2385523	3.531504	7.771833	3.493362E-02			SPCC (0.1)	
1,1-Dichloroethane	1.350862	3.617561	4.134	3.402971E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.033558	4.41887	2.9865	3.835609E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.169793	3.942695	5.285	2.983337E-02			20	
1,2,3-Trichlorobenzene	0.676432	3.783131	14.141	1.745122E-02			20	
1,2,3-Trichloropropane	0.2420864	4.041625	10.25483	2.447654E-02			20	
1,2,4,5-Tetramethylbenzene	2.126505	3.893796	12.614	1.375278E-02			20	
1,2,4-Trichlorobenzene	0.711432	3.860437	13.593	3.88078E-03			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.449708	4.469443	10.93617	1.517752E-02			20	
1,2-Dibromo-3-chloropropane	0.161911	16.61357	12.6505	2.138896E-02	0.99907		SPCC (0.05)	
1,2-Dibromoethane	0.2288968	3.29831	8.291	2.247306E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.049512	5.312908	11.764	2.342943E-02			SPCC (0.4)	
1,2-Dichloroethane	1.176698	3.275847	5.512	2.746729E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2299633	3.419835	6.3355	1.706968E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.454729	4.444376	10.52117	7.445262E-03			20	
1,3-Dichlorobenzene	1.107301	4.606726	11.25333	0.0194453			SPCC (0.6)	
1,3-Dichloropropane	0.4224946	3.932284	7.938833	2.547194E-02			20	
1,4-Dichlorobenzene	1.129926	4.813504	11.36967	1.011268E-02			SPCC (0.5)	
1,4-Dioxane	3.942293E-03	4.962224	6.401833	5.781039E-02			20	
2,2-Dichloropropane	1.131495	6.322771	4.671	0.0330923			20	
2-Butanone	0.1314407	5.68942	4.642	5.036088E-02			SPCC (0.1)	
2-Chlorotoluene	2.306575	8.432305	10.41733	1.607532E-02			20	
2-Hexanone	0.175277	4.724589	7.978	2.384938E-02			SPCC (0.1)	
4-Chlorotoluene	2.577926	5.048886	10.55117	2.292445E-02			20	
4-Methyl-2-pentanone	0.2359662	3.20903	7.1365	3.048355E-02			SPCC (0.1)	
Acetone	0.2952705	10.03613	3.0214	4.558058E-02			SPCC (0.1)	
Acrolein	0.1171887	2.280745	2.887833	9.384832E-02			20	
Acrylonitrile	0.2950859	3.127966	3.667333	4.963404E-02			20	

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YL90031 Instrument: VOA No. 5

Calibration Date: 12/30/19 12:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.382829	5.278763	5.4675	3.208852E-02			SPCC (0.5)	
Bromobenzene	1.264131	4.161744	10.20467	1.972321E-02			20	
Bromochloromethane	0.5405761	2.312921	4.881	3.964846E-02			20	
Bromodichloromethane	0.3096825	9.42417	6.5835	1.690249E-02			SPCC (0.2)	
Bromoform	0.1076197	23.8948	9.677	2.395131E-02	0.99936		SPCC (0.1)	
Bromomethane	0.4382531	10.41476	2.1065	0.1083267			SPCC (0.1)	
Carbon disulfide	1.967226	8.607654	3.204833	0.0588681			SPCC (0.1)	
Carbon tetrachloride	0.8627823	7.734082	5.2885	2.859949E-02			SPCC (0.1)	
Chlorobenzene	0.6776202	4.751538	8.804167	3.386498E-02			SPCC (0.5)	
Chloroethane	0.3925258	8.060475	2.2255	0.1003518			SPCC (0.1)	
Chloroform	1.459916	3.372675	4.974	5.045445E-02			SPCC (0.2)	
Chloromethane	0.584501	6.882306	1.725667	0.2060136			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.211986	3.351125	4.661	0.0296021			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.4085731	7.48685	7.0075	2.863621E-02			SPCC (0.2)	
Cyclohexane	1.068845	7.837055	5.218333	4.333747E-02			SPCC (0.1)	
Dibromochloromethane	0.1742837	16.07169	8.1655	0.0105642	0.99958		SPCC (0.1)	
Dibromomethane	0.1561883	3.436609	6.417	0.0274778			20	
Dichlorodifluoromethane	0.7700427	5.833354	1.521	1.544678E-02			SPCC (0.1)	
Ethyl Benzene	1.272689	5.319691	8.905	2.175143E-02			SPCC (0.1)	
Hexachlorobutadiene	0.3439175	4.414693	13.766	0.0132203			20	
Isopropylbenzene	2.937179	4.160848	9.8585	1.139717E-02			SPCC (0.1)	
Methyl acetate	0.5679879	2.789628	3.327	0.0448003			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	2.363953	3.069271	3.722	3.937998E-02			SPCC (0.1)	
Methylcyclohexane	0.4713674	3.67893	6.325833	3.017024E-02			SPCC (0.1)	
Methylene chloride	0.7755339	6.096883	3.461	0.0475802			SPCC (0.1)	
Naphthalene	2.094859	4.488305	13.8865	8.867067E-03			20	
n-Butylbenzene	2.558785	7.249888	11.7545	1.636738E-02			20	
n-Propylbenzene	3.570971	6.189517	10.318	3.154601E-03			20	
o-Xylene	1.045242	4.75476	9.4565	0.0145249			SPCC (0.3)	
p- & m- Xylenes	1.013097	7.118161	9.045334	2.825189E-02			SPCC (0.1)	
p-Diethylbenzene	1.284427	2.738593	11.728	8.273888E-03			20	
p-Ethyltoluene	2.550733	3.294112	10.4545	1.831745E-02			20	

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

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YL90031 Instrument: VOA No. 5

Calibration Date: 12/30/19 12:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p-Isopropyltoluene	2.446748	3.937926	11.29567	1.367074E-02			20	
sec-Butylbenzene	2.91526	4.355346	11.11933	1.272248E-02			20	
Styrene	0.7834469	3.042881	9.479	0.0175491			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	1.468319	0.3690965	5.439667	0.0477298			20	
SURR: p-Bromofluorobenzene	1.386155	0.7310725	10.0515	1.091422E-02			20	
SURR: Toluene-d8	1.472241	0.5752539	7.275	2.741822E-02			20	
tert-Butyl alcohol (TBA)	0.1032341	8.667738	3.560333	5.870383E-02			20	
tert-Butylbenzene	2.172634	3.684713	10.8695	2.095301E-02			20	
Tetrachloroethylene	0.2334633	7.407186	7.873	2.006514E-02			SPCC (0.2)	
Toluene	1.140843	5.222315	7.3455	2.615889E-02			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.020343	4.499168	3.726833	5.790152E-02			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.3714148	11.1716	7.571	2.435346E-02			SPCC (0.1)	
trans-1,4-dichloro-2-butene	1.008953	4.881244	10.25217	1.648048E-02			20	
Trichloroethylene	0.2614109	3.855925	6.091	2.073285E-02			SPCC (0.2)	
Trichlorofluoromethane	0.9321723	5.684825	2.4805	6.692573E-02			SPCC (0.1)	
Vinyl acetate	1.230527	3.188899	4.130833	4.348573E-02			20	
Vinyl Chloride	0.6653645	4.578324	1.8025	9.120015E-02			SPCC (0.1)	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909891.D
Acq On : 30 Jan 2020 3:29 pm
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV90012920A 0.500 PPB AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 31 12:01:40 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.790	70	118324	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.844	117	493007	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.831	152	151511	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.473	65	161432	11.44	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 114.40%				
51) Toluene-d8 (SURR)	7.333	98	631754	9.30	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.00%				
70) p-Bromofluorobenzene (...	10.129	95	244400	9.22	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	6672	0.75	ppb	#	1
3) Chloromethane	1.765	50	3114m	0.26	ppb		
4) Vinyl Chloride	1.844	62	3889	0.38	ppb	#	100
6) Chloroethane	2.280	64	2917	0.54	ppb	#	23
7) Trichlorofluoromethane	2.527	101	9988	0.85	ppb	#	22
8) Ethanol	2.657	45	1058m	54.96	ppb		
9) Freon-113	3.047	101	5541	0.66	ppb	#	1
10) 1,1-Dichloroethylene	3.026	61	11170	0.70	ppb		86
11) Acrolein	2.904	56	443m	0.35	ppb		
12) Acetone	3.047	43	1672m	0.91	ppb		
14) Methyl Acetate	3.346	43	2013	0.52	ppb	#	1
15) Carbon disulfide	3.262	76	15825	0.65	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.596	59	307m	0.57	ppb		
17) Methylene Chloride	3.488	49	8056	0.60	ppb	#	77
19) trans-1,2-Dichloroethy...	3.770	61	9936	0.65	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.767	73	16807	0.69	ppb	#	96
21) 1,1-Dichloroethane	4.165	63	12895	0.63	ppb	#	99
22) Vinyl Acetate	4.157	43	6930	0.64	ppb	#	1
23) Diisopropyl ether (DIPE)	4.206	45	15558	0.44	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.552	59	17435	0.48	ppb	#	90
25) cis-1,2-Dichloroethylene	4.691	61	12422	0.66	ppb	#	86
26) 2-Butanone	4.654	72	1149	Below Cal		#	1
27) 2,2-Dichloropropane	4.706	77	11230	0.65	ppb	#	88
28) Tetrahydrofuran	4.941	42	808	0.51	ppb	#	19
29) Bromochloromethane	4.912	49	4480	0.61	ppb	#	53
30) Chloroform	5.005	83	13381	0.69	ppb	#	95
31) 1,1,1-Trichloroethane	5.185	97	12655	0.72	ppb	#	54
32) Cyclohexane	5.290	56	26415	0.60	ppb	#	77
33) 1,1-Dichloropropylene	5.334	75	10144	0.67	ppb	#	60
35) Carbon Tetrachloride	5.348	117	9669	0.70	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.482	59	2523m	5.22	ppb		
37) 1,2-Dichloroethane	5.540	62	10015	0.73	ppb	#	100
38) Benzene	5.511	78	27498	0.62	ppb	#	95
39) tert-Amyl methyl ether...	5.639	73	14762	0.52	ppb	#	1
41) Trichloroethylene	6.144	95	7868	0.58	ppb	#	77
42) Methyl Cyclohexane	6.400	83	10478	0.50	ppb		81
43) Methyl Methacrylate	6.412	69	6490	0.61	ppb	#	99
44) Dibromomethane	6.461	93	3628	0.65	ppb		94
45) Bromodichloromethane	6.630	83	8637	0.53	ppb		97
46) 1,2-Dichloropropane	6.377	63	7051	0.52	ppb	#	92
47) 1,4-Dioxane	6.467	88	78	2.42	ppb		94
48) 2-Chloroethyl vinyl ether	6.891	63	2043m	0.78	ppb		
49) cis-1,3-Dichloropropene	7.054	75	9373	0.48	ppb	#	63
50) 4-Methyl-2-Pentanone	7.167	43	3331	0.49	ppb	#	92
52) Toluene	7.400	91	34691	0.62	ppb		100
53) trans-1,3-Dichloropropene	7.612	75	7387	0.47	ppb	#	89
54) 1,1,2-Trichloroethane	7.818	97	4845	0.59	ppb	#	1

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909891.D
Acq On : 30 Jan 2020 3:29 pm
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV90012920A 0.500 PPB AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 31 12:01:40 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

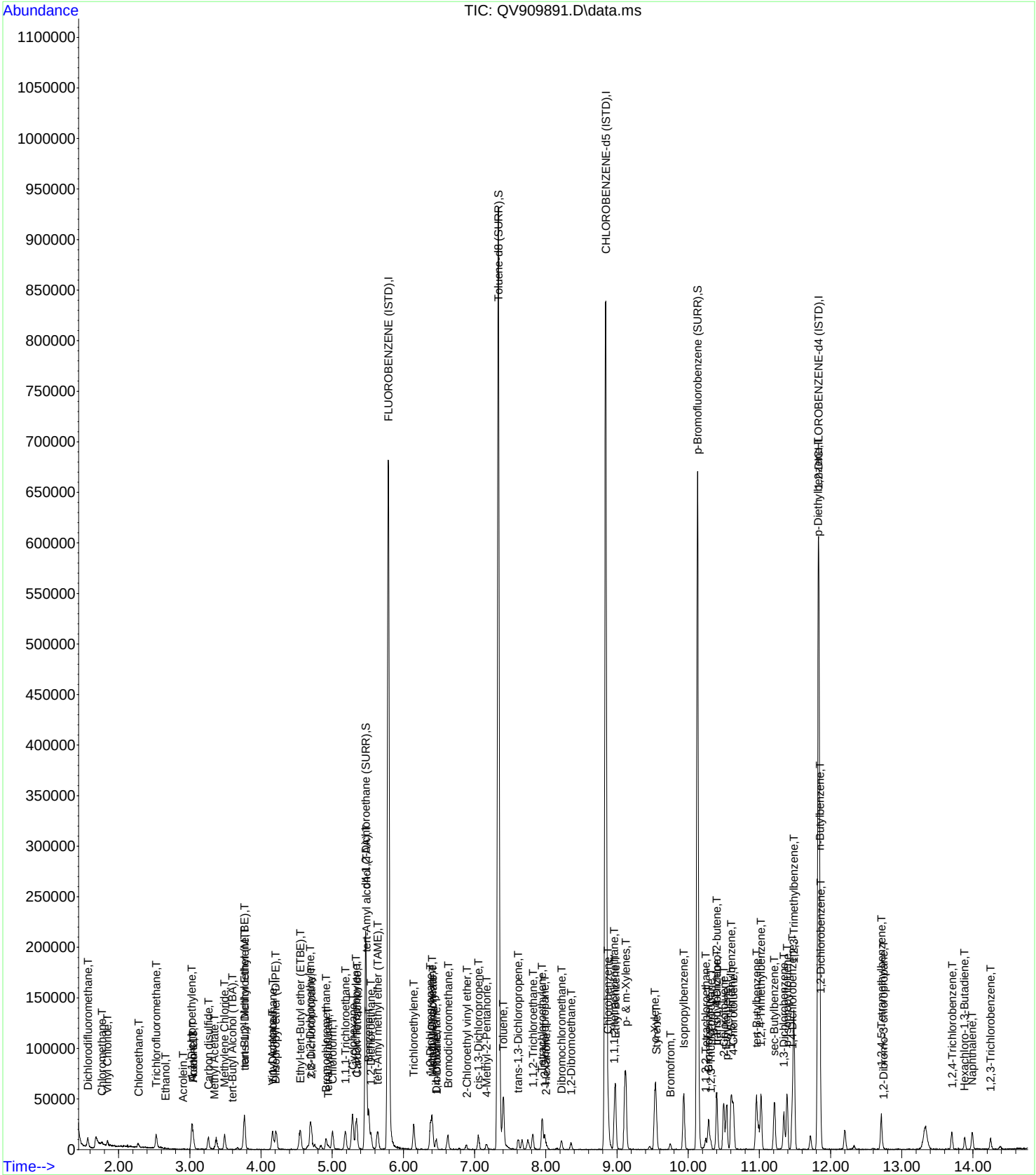
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) 1,3-Dichloropropane	7.984	76	8591	0.58	ppb	#	98
56) Tetrachloroethylene	7.946	166	9078	0.68	ppb	#	100
57) 2-Hexanone	8.004	43	2602m	0.53	ppb		
58) Dibromochloromethane	8.219	129	4708	0.50	ppb	#	89
59) 1,2-Dibromoethane	8.356	107	4537	0.60	ppb		97
60) Chlorobenzene	8.873	112	21727	0.63	ppb	#	90
61) 1,1,1,2-tetrachloroethane	8.960	131	6937	0.65	ppb	#	54
62) Ethyl Benzene	8.981	91	39910	0.63	ppb		93
63) p- & m-Xylenes	9.123	91	63514	1.28	ppb	#	77
64) o-Xylene	9.530	91	31722	0.62	ppb		96
65) Styrene	9.553	104	21719	0.60	ppb	#	82
66) Bromofrom	9.751	173	2346	0.51	ppb	#	81
68) p-Ethyltoluene	10.535	105	30991	0.55	ppb	#	97
69) Isopropylbenzene	9.937	105	40069	0.62	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.245	83	4695	0.53	ppb	#	96
72) Bromobenzene	10.283	77	15342	0.58	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.402	75	277m	0.55	ppb		
74) 1,2,3-Trichloropropane	10.317	110	1467	0.58	ppb	#	1
75) n-Propylbenzene	10.402	91	46844	0.61	ppb	#	87
76) 2-Chlorotoluene	10.501	91	27604	0.59	ppb		98
77) 4-Chlorotoluene	10.634	91	32511	0.62	ppb		95
78) 1,3,5-Trimethylbenzene	10.602	105	33289	0.64	ppb	#	60
79) tert-Butylbenzene	10.960	119	31569	0.65	ppb		96
80) 1,2,4-Trimethylbenzene	11.021	105	32717	0.64	ppb		93
81) sec-Butylbenzene	11.207	105	36733	0.62	ppb	#	83
82) 1,3-Dichlorobenzene	11.343	146	14435	0.62	ppb		90
83) p-Isopropyltoluene	11.387	119	32915	0.64	ppb		93
84) 1,4-Dichlorobenzene	11.462	146	15216m	0.66	ppb		
85) 1,2,3-Trimethylbenzene	11.483	105	86037	2.15	ppb	#	87
86) p-Diethylbenzene	11.826	105	14573	0.56	ppb	#	44
87) 1,2-Dichlorobenzene	11.858	146	12503	0.64	ppb	#	100
88) n-Butylbenzene	11.849	91	33843	0.61	ppb	#	89
89) 1,2-Dibromo-3-chloropr...	12.741	75	567	0.31	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.712	119	19246	0.47	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.709	180	5076	0.49	ppb	#	3
92) Hexachloro-1,3-Butadiene	13.880	225	2375m	0.53	ppb		
93) Naphthalene	13.988	128	14707	0.65	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.243	180	3720	0.47	ppb	#	86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909891.D
Acq On : 30 Jan 2020 3:29 pm
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV90012920A 0.500 PPB AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 31 12:01:40 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Data Path : C:\msdchem\1\data\013020A\
Data File : QV909892.D
Acq On : 30 Jan 2020 3:56 pm
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV90012920A 2.00 PPB AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 31 12:01:54 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.790	70	128526	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	8.838	117	505644	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.834	152	152998	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.464	65	172689	11.27	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 112.70%				
51) Toluene-d8 (SURR)	7.333	98	660957	9.49	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.90%				
70) p-Bromofluorobenzene (...	10.131	95	262594	9.81	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	39939	4.13	ppb	#	1
3) Chloromethane	1.765	50	13168	1.02	ppb		93
4) Vinyl Chloride	1.847	62	16992	1.53	ppb	#	98
5) Bromomethane	2.166	94	948m	0.24	ppb		
6) Chloroethane	2.268	64	15527	2.65	ppb	#	20
7) Trichlorofluoromethane	2.527	101	58476	4.58	ppb	#	20
8) Ethanol	2.657	45	3143m	149.56	ppb		
9) Freon-113	3.038	101	33131	3.63	ppb	#	1
10) 1,1-Dichloroethylene	3.026	61	47571	2.74	ppb	#	79
11) Acrolein	2.904	56	2121	1.55	ppb	#	1
12) Acetone	3.032	43	6385	3.19	ppb	#	1
14) Methyl Acetate	3.352	43	11609	2.74	ppb	#	1
15) Carbon disulfide	3.256	76	64784	2.43	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.576	59	2297m	3.92	ppb		
17) Methylene Chloride	3.486	49	30540	2.09	ppb	#	76
18) Acrylonitrile	3.759	53	666	2.21	ppb	#	1
19) trans-1,2-Dichloroethy...	3.767	61	43340	2.61	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.756	73	77245	2.91	ppb	#	94
21) 1,1-Dichloroethane	4.163	63	56197	2.54	ppb	#	99
22) Vinyl Acetate	4.151	43	30715	2.62	ppb	#	1
23) Diisopropyl ether (DIPE)	4.212	45	72305	1.89	ppb	#	41
24) Ethyl-tert-Butyl ether...	4.552	59	83007	2.09	ppb	#	79
25) cis-1,2-Dichloroethylene	4.691	61	52357	2.55	ppb	#	86
26) 2-Butanone	4.654	72	2996m	1.85	ppb		
27) 2,2-Dichloropropane	4.706	77	46281	2.47	ppb	#	84
28) Tetrahydrofuran	4.941	42	4023	2.33	ppb	#	30
29) Bromochloromethane	4.912	49	19210	2.40	ppb	#	49
30) Chloroform	5.008	83	60231	2.86	ppb	#	95
31) 1,1,1-Trichloroethane	5.183	97	54170	2.85	ppb	#	73
32) Cyclohexane	5.281	56	126342	2.63	ppb	#	80
33) 1,1-Dichloropropylene	5.331	75	42900	2.62	ppb	#	55
35) Carbon Tetrachloride	5.342	117	40652	2.73	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.482	59	12718m	24.25	ppb		
37) 1,2-Dichloroethane	5.543	62	43126	2.89	ppb	#	98
38) Benzene	5.508	78	122242	2.56	ppb	#	95
39) tert-Amyl methyl ether...	5.639	73	69256	2.24	ppb	#	1
41) Trichloroethylene	6.144	95	35478	2.57	ppb	#	73
42) Methyl Cyclohexane	6.397	83	62836	2.91	ppb	#	71
43) Methyl Methacrylate	6.406	69	27222	2.51	ppb	#	98
44) Dibromomethane	6.458	93	15118	2.63	ppb	#	49
45) Bromodichloromethane	6.624	83	40359	2.41	ppb	#	95
46) 1,2-Dichloropropane	6.374	63	32005	2.31	ppb	#	90
47) 1,4-Dioxane	6.458	88	2651m	80.12	ppb		
48) 2-Chloroethyl vinyl ether	6.883	63	11407	4.24	ppb	#	1
49) cis-1,3-Dichloropropene	7.054	75	42824	2.13	ppb	#	94
50) 4-Methyl-2-Pentanone	7.164	43	15419	2.21	ppb	#	72
52) Toluene	7.400	91	140130	2.44	ppb		99

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909892.D
Acq On : 30 Jan 2020 3:56 pm
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV90012920A 2.00 PPB AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 31 12:01:54 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

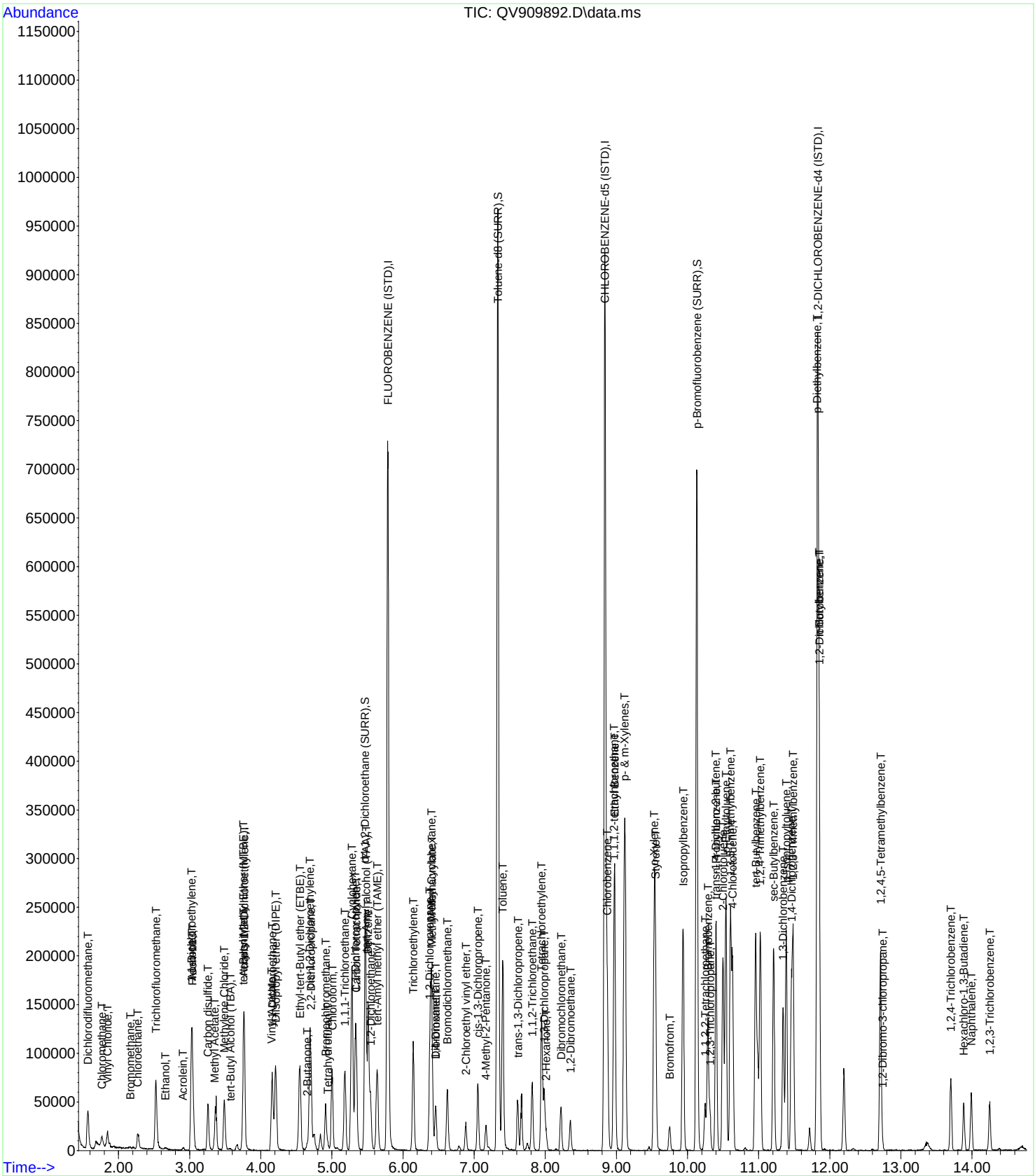
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.618	75	33577	2.09	ppb	#	97
54) 1,1,2-Trichloroethane	7.815	97	21655	2.56	ppb	#	1
55) 1,3-Dichloropropane	7.984	76	38083	2.52	ppb	#	68
56) Tetrachloroethylene	7.946	166	39057	2.87	ppb	#	100
57) 2-Hexanone	8.013	43	10724	2.15	ppb	#	1
58) Dibromochloromethane	8.222	129	23900	2.49	ppb	#	87
59) 1,2-Dibromoethane	8.356	107	20317	2.60	ppb		92
60) Chlorobenzene	8.870	112	91630	2.61	ppb	#	84
61) 1,1,1,2-tetrachloroethane	8.966	131	29843	2.74	ppb	#	47
62) Ethyl Benzene	8.975	91	169587	2.63	ppb		95
63) p- & m-Xylenes	9.114	91	268499	5.27	ppb		93
64) o-Xylene	9.530	91	134494	2.58	ppb		96
65) Styrene	9.550	104	96030	2.59	ppb	#	82
66) Bromofrom	9.751	173	11364	2.42	ppb	#	81
68) p-Ethyltoluene	10.541	105	176801	3.12	ppb	#	97
69) Isopropylbenzene	9.940	105	166774	2.54	ppb	#	89
71) 1,1,2,2-Tetrachloroethane	10.248	83	21559	2.42	ppb	#	65
72) Bromobenzene	10.285	77	64837	2.43	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.396	75	1490	2.95	ppb	#	1
74) 1,2,3-Trichloropropane	10.317	110	7478	2.91	ppb	#	1
75) n-Propylbenzene	10.402	91	192364	2.46	ppb	#	88
76) 2-Chlorotoluene	10.498	91	119208	2.52	ppb		98
77) 4-Chlorotoluene	10.634	91	135009	2.56	ppb		95
78) 1,3,5-Trimethylbenzene	10.602	105	140888	2.68	ppb	#	62
79) tert-Butylbenzene	10.960	119	129162	2.65	ppb	#	95
80) 1,2,4-Trimethylbenzene	11.021	105	144240	2.78	ppb		91
81) sec-Butylbenzene	11.210	105	155132	2.58	ppb	#	91
82) 1,3-Dichlorobenzene	11.343	146	61296	2.61	ppb	#	91
83) p-Isopropyltoluene	11.387	119	137160	2.65	ppb		93
84) 1,4-Dichlorobenzene	11.462	146	61464	2.65	ppb		89
85) 1,2,3-Trimethylbenzene	11.486	105	133262	3.30	ppb	#	89
86) p-Diethylbenzene	11.823	105	77459	2.95	ppb	#	62
87) 1,2-Dichlorobenzene	11.852	146	53449	2.71	ppb	#	100
88) n-Butylbenzene	11.849	91	147712	2.63	ppb		97
89) 1,2-Dibromo-3-chloropr...	12.741	75	4273	2.35	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.715	119	119805	2.89	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.703	180	22652	2.15	ppb	#	12
92) Hexachloro-1,3-Butadiene	13.883	225	9688	2.15	ppb	#	62
93) Naphthalene	13.991	128	48355	2.11	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.249	180	15446	1.93	ppb	#	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909892.D
Acq On : 30 Jan 2020 3:56 pm
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV90012920A 2.00 PPB AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 31 12:01:54 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909893.D
Acq On : 30 Jan 2020 4:23 pm
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV90012920A 4.00 PPB AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 31 12:02:10 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.787	70	125080	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.835	117	518477	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.832	152	156303	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.470	65	170183	11.41	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 114.10%				
51) Toluene-d8 (SURR)	7.333	98	662645	9.28	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 92.80%				
70) p-Bromofluorobenzene (...	10.132	95	262699	9.61	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	45097	4.79	ppb	#	1
3) Chloromethane	1.771	50	17372	1.38	ppb	#	72
4) Vinyl Chloride	1.841	62	24710	2.29	ppb	#	98
5) Bromomethane	2.158	94	1295	0.33	ppb		96
6) Chloroethane	2.274	64	19035	3.34	ppb	#	19
7) Trichlorofluoromethane	2.527	101	69502	5.59	ppb	#	19
8) Ethanol	2.657	45	3000	146.71	ppb	#	1
9) Freon-113	3.041	101	40037	4.51	ppb	#	1
10) 1,1-Dichloroethylene	3.026	61	69255	4.10	ppb	#	85
11) Acrolein	2.907	56	2310	1.74	ppb	#	1
12) Acetone	3.041	43	8371	4.30	ppb	#	1
13) Iodomethane	3.172	142	1814m	0.25	ppb		
14) Methyl Acetate	3.352	43	14006	3.40	ppb	#	1
15) Carbon disulfide	3.259	76	98200	3.79	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.573	59	2797m	4.90	ppb		
17) Methylene Chloride	3.486	49	46574	3.27	ppb	#	76
18) Acrylonitrile	3.750	53	674	2.30	ppb	#	1
19) trans-1,2-Dichloroethy...	3.767	61	65362	4.04	ppb	#	84
20) tert-Butyl Methyl Ethe...	3.756	73	112326	4.34	ppb	#	95
21) 1,1-Dichloroethane	4.163	63	84031	3.90	ppb	#	99
22) Vinyl Acetate	4.154	43	42182	3.70	ppb	#	1
23) Diisopropyl ether (DIPE)	4.209	45	121480	3.26	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.549	59	143453	3.71	ppb	#	99
25) cis-1,2-Dichloroethylene	4.692	61	77127	3.86	ppb	#	80
26) 2-Butanone	4.654	72	3222	2.32	ppb	#	1
27) 2,2-Dichloropropane	4.706	77	71924	3.95	ppb	#	87
28) Tetrahydrofuran	4.947	42	5608	3.34	ppb	#	1
29) Bromochloromethane	4.910	49	28836	3.70	ppb	#	48
30) Chloroform	5.003	83	90795	4.42	ppb	#	85
31) 1,1,1-Trichloroethane	5.183	97	83348	4.51	ppb	#	26
32) Cyclohexane	5.290	56	176515	3.78	ppb	#	79
33) 1,1-Dichloropropylene	5.334	75	65209	4.09	ppb	#	79
35) Carbon Tetrachloride	5.343	117	68117	4.70	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.476	59	20182	39.54	ppb	#	1
37) 1,2-Dichloroethane	5.543	62	62811	4.33	ppb	#	100
38) Benzene	5.511	78	182668	3.93	ppb	#	94
39) tert-Amyl methyl ether...	5.639	73	121148	4.03	ppb	#	1
41) Trichloroethylene	6.145	95	51379	3.63	ppb	#	73
42) Methyl Cyclohexane	6.397	83	77244	3.49	ppb	#	47
43) Methyl Methacrylate	6.409	69	36941	3.32	ppb	#	98
44) Dibromomethane	6.458	93	22187	3.77	ppb	#	51
45) Bromodichloromethane	6.624	83	61917	3.61	ppb	#	97
46) 1,2-Dichloropropane	6.377	63	46853	3.30	ppb	#	89
47) 1,4-Dioxane	6.444	88	3558m	104.78	ppb		
48) 2-Chloroethyl vinyl ether	6.886	63	13358	4.84	ppb	#	1
49) cis-1,3-Dichloropropene	7.051	75	66282	3.21	ppb	#	95
50) 4-Methyl-2-Pentanone	7.165	43	22500	3.15	ppb	#	54

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909893.D
Acq On : 30 Jan 2020 4:23 pm
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV90012920A 4.00 PPB AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 31 12:02:10 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

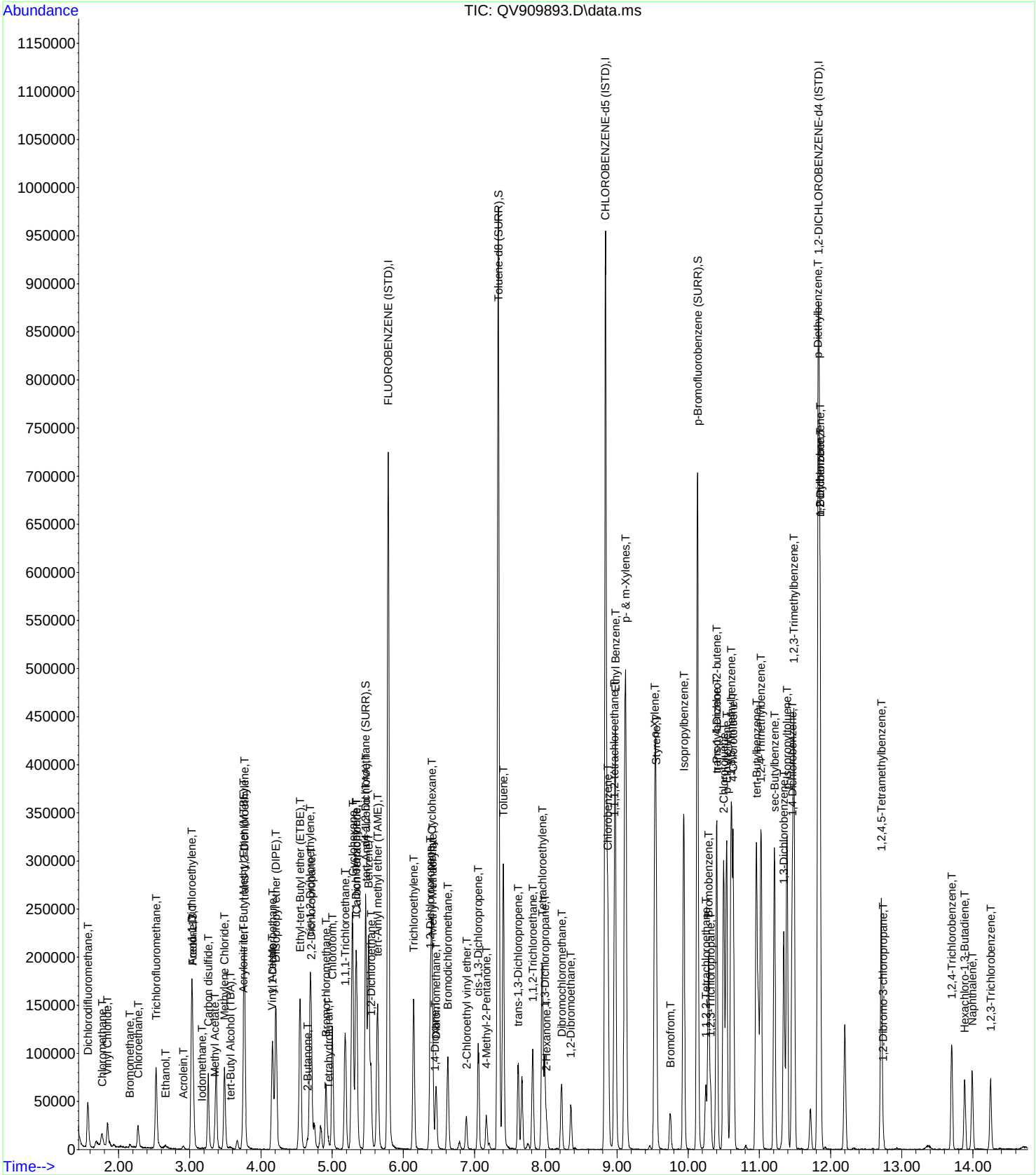
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Toluene	7.403	91	209411	3.56	ppb		99
53) trans-1,3-Dichloropropene	7.612	75	53514	3.25	ppb	#	99
54) 1,1,2-Trichloroethane	7.816	97	31878	3.67	ppb	#	1
55) 1,3-Dichloropropane	7.987	76	56061	3.62	ppb	#	68
56) Tetrachloroethylene	7.952	166	55941	4.01	ppb	#	100
57) 2-Hexanone	8.010	43	15412	3.01	ppb	#	1
58) Dibromochloromethane	8.222	129	35915	3.65	ppb	#	82
59) 1,2-Dibromoethane	8.350	107	30154	3.76	ppb		93
60) Chlorobenzene	8.873	112	137383	3.81	ppb	#	86
61) 1,1,1,2-tetrachloroethane	8.963	131	46209	4.13	ppb	#	48
62) Ethyl Benzene	8.978	91	248254	3.75	ppb		97
63) p- & m-Xylenes	9.120	91	399452	7.65	ppb		93
64) o-Xylene	9.530	91	202182	3.79	ppb		96
65) Styrene	9.550	104	144980	3.82	ppb	#	82
66) Bromofrom	9.751	173	17343	3.60	ppb	#	93
68) p-Ethyltoluene	10.541	105	220069	3.80	ppb	#	97
69) Isopropylbenzene	9.940	105	251903	3.75	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.248	83	32007	3.52	ppb	#	97
72) Bromobenzene	10.283	77	95783	3.52	ppb	#	74
73) trans-1,4-Dichloro-2-b...	10.402	75	1362	2.64	ppb	#	1
74) 1,2,3-Trichloropropane	10.315	110	10921	4.16	ppb	#	1
75) n-Propylbenzene	10.402	91	288224	3.61	ppb	#	89
76) 2-Chlorotoluene	10.498	91	175908	3.64	ppb		98
77) 4-Chlorotoluene	10.631	91	203380	3.77	ppb		95
78) 1,3,5-Trimethylbenzene	10.602	105	214499	3.99	ppb	#	63
79) tert-Butylbenzene	10.960	119	193202	3.89	ppb		96
80) 1,2,4-Trimethylbenzene	11.021	105	209432	3.95	ppb		95
81) sec-Butylbenzene	11.213	105	232994	3.79	ppb	#	91
82) 1,3-Dichlorobenzene	11.343	146	91575	3.82	ppb	#	90
83) p-Isopropyltoluene	11.387	119	207479	3.93	ppb		93
84) 1,4-Dichlorobenzene	11.462	146	92510	3.90	ppb		90
85) 1,2,3-Trimethylbenzene	11.486	105	279834	6.78	ppb	#	91
86) p-Diethylbenzene	11.823	105	98774	3.68	ppb	#	53
87) 1,2-Dichlorobenzene	11.852	146	78548	3.90	ppb	#	100
88) n-Butylbenzene	11.852	91	209998	3.66	ppb	#	90
89) 1,2-Dibromo-3-chloropr...	12.735	75	6687	3.60	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.712	119	151983	3.59	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.703	180	33336	3.10	ppb	#	8
92) Hexachloro-1,3-Butadiene	13.883	225	15585	3.39	ppb	#	64
93) Naphthalene	13.991	128	67829m	2.89	ppb		
94) 1,2,3-Trichlorobenzene	14.249	180	22708	2.78	ppb	#	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909893.D
Acq On : 30 Jan 2020 4:23 pm
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV90012920A 4.00 PPB AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 31 12:02:10 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909894.D
Acq On : 30 Jan 2020 4:50 pm
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV90012920A 10.0 PPB AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 31 12:02:39 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.787	70	121466	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.841	117	495786	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.834	152	157595	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.470	65	168346	11.62	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 116.20%				
51) Toluene-d8 (SURR)	7.333	98	660662	9.68	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.80%				
70) p-Bromofluorobenzene (...	10.129	95	261618	9.49	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 94.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.571	85	122883	13.43	ppb	#	1
3) Chloromethane	1.762	50	47716m	3.91	ppb		
4) Vinyl Chloride	1.847	62	78100	7.44	ppb	#	98
5) Bromomethane	2.158	94	6550	1.73	ppb		94
6) Chloroethane	2.271	64	47920	8.66	ppb	#	25
7) Trichlorofluoromethane	2.524	101	197053	16.32	ppb	#	18
8) Ethanol	2.663	45	13162	645.98	ppb	#	1
9) Freon-113	3.038	101	112052	12.99	ppb	#	1
10) 1,1-Dichloroethylene	3.029	61	204508	12.48	ppb	#	85
11) Acrolein	2.907	56	7611	5.90	ppb	#	1
12) Acetone	3.035	43	25045	13.24	ppb	#	1
13) Iodomethane	3.166	142	10823m	1.52	ppb		
14) Methyl Acetate	3.346	43	41683	10.42	ppb	#	1
15) Carbon disulfide	3.259	76	285553	11.34	ppb	#	20
16) tert-Butyl Alcohol (TBA)	3.573	59	7954	14.27	ppb	#	1
17) Methylene Chloride	3.486	49	134039	9.70	ppb	#	76
18) Acrylonitrile	3.756	53	3624	12.81	ppb	#	1
19) trans-1,2-Dichloroethy...	3.767	61	193470	12.33	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.759	73	322153	12.83	ppb	#	95
21) 1,1-Dichloroethane	4.163	63	246223	11.77	ppb	#	99
22) Vinyl Acetate	4.151	43	123454	11.14	ppb	#	1
23) Diisopropyl ether (DIPE)	4.209	45	356653	9.84	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.546	59	419801	11.17	ppb	#	79
25) cis-1,2-Dichloroethylene	4.692	61	225618	11.62	ppb	#	85
26) 2-Butanone	4.651	72	8455	10.71	ppb	#	1
27) 2,2-Dichloropropane	4.709	77	202099	11.44	ppb	#	83
28) Tetrahydrofuran	4.944	42	15475	9.48	ppb	#	1
29) Bromochloromethane	4.912	49	80568	10.65	ppb	#	33
30) Chloroform	5.003	83	252893	12.69	ppb	#	85
31) 1,1,1-Trichloroethane	5.183	97	246489	13.74	ppb	#	55
32) Cyclohexane	5.284	56	495630	10.93	ppb	#	81
33) 1,1-Dichloropropylene	5.331	75	191857	12.40	ppb	#	65
35) Carbon Tetrachloride	5.343	117	193137	13.71	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.482	59	59608	120.25	ppb	#	1
37) 1,2-Dichloroethane	5.543	62	186473	13.22	ppb	#	98
38) Benzene	5.511	78	524635	11.61	ppb	#	95
39) tert-Amyl methyl ether...	5.636	73	348722	11.95	ppb	#	1
41) Trichloroethylene	6.145	95	152202	11.24	ppb	#	73
42) Methyl Cyclohexane	6.397	83	215397	10.17	ppb	#	48
43) Methyl Methacrylate	6.409	69	101936	9.57	ppb	#	96
44) Dibromomethane	6.461	93	65928	11.72	ppb	#	88
45) Bromodichloromethane	6.624	83	185767	11.33	ppb	#	96
46) 1,2-Dichloropropane	6.377	63	131057	9.65	ppb	#	89
47) 1,4-Dioxane	6.447	88	11366m	347.02	ppb		
48) 2-Chloroethyl vinyl ether	6.883	63	39821	15.10	ppb	#	1
49) cis-1,3-Dichloropropene	7.051	75	198078	10.04	ppb	#	66
50) 4-Methyl-2-Pentanone	7.167	43	64274	9.41	ppb	#	53

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909894.D
Acq On : 30 Jan 2020 4:50 pm
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV90012920A 10.0 PPB AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 31 12:02:39 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

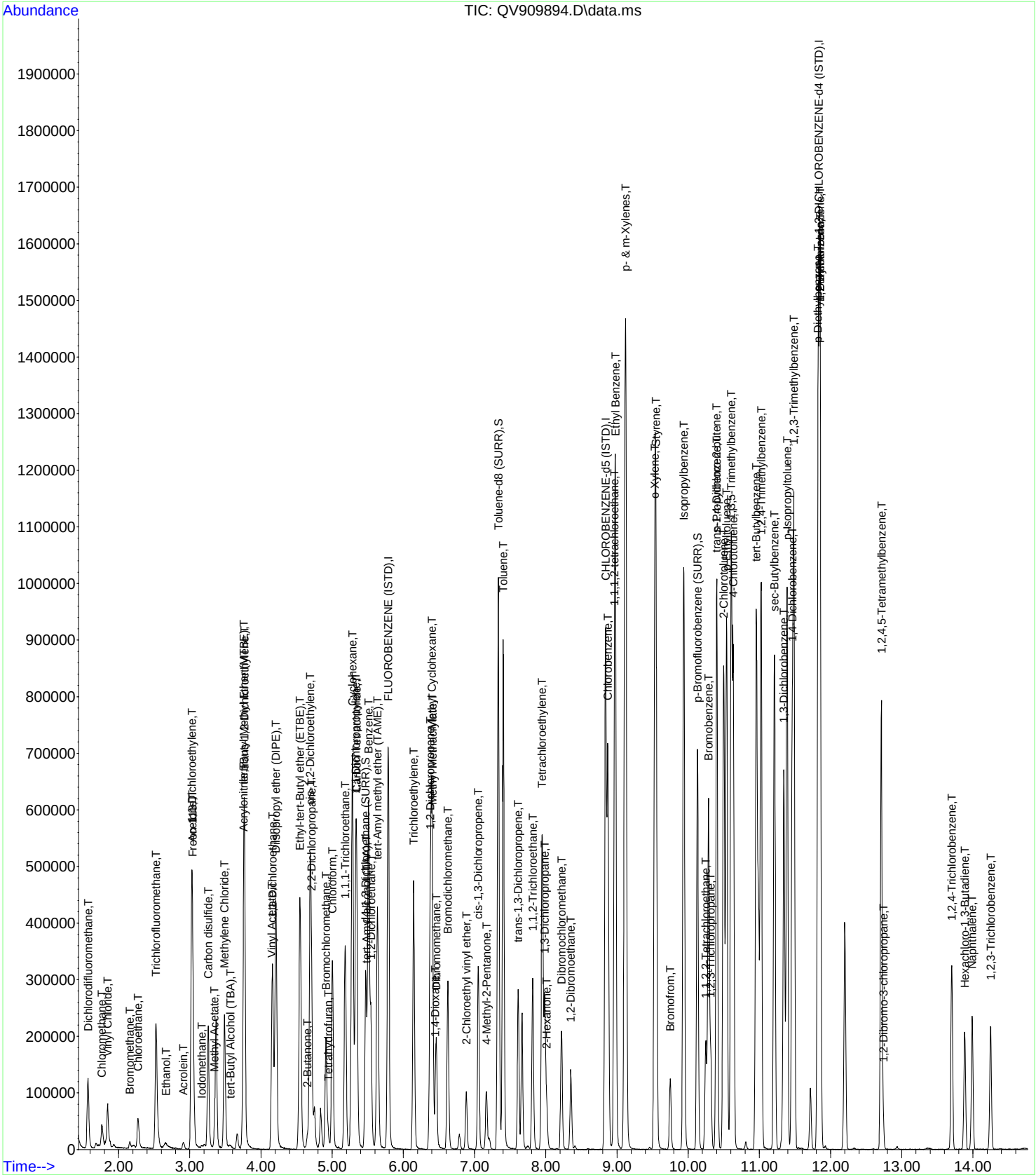
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Toluene	7.400	91	602352	10.70	ppb		99
53) trans-1,3-Dichloropropene	7.612	75	165312	10.51	ppb	#	99
54) 1,1,2-Trichloroethane	7.816	97	93441	11.25	ppb	#	1
55) 1,3-Dichloropropane	7.984	76	165346	11.18	ppb	#	96
56) Tetrachloroethylene	7.946	166	161136	12.09	ppb	#	100
57) 2-Hexanone	8.013	43	46999	9.60	ppb	#	1
58) Dibromochloromethane	8.219	129	111882	11.80	ppb	#	86
59) 1,2-Dibromoethane	8.350	107	88663	11.57	ppb		93
60) Chlorobenzene	8.873	112	395375	11.47	ppb	#	88
61) 1,1,1,2-tetrachloroethane	8.963	131	135419	12.67	ppb	#	46
62) Ethyl Benzene	8.978	91	717099	11.32	ppb		96
63) p- & m-Xylenes	9.120	91	1153763	23.11	ppb		93
64) o-Xylene	9.530	91	595192	11.66	ppb		96
65) Styrene	9.547	104	422256	11.62	ppb	#	93
66) Bromofrom	9.748	173	55719	12.01	ppb	#	95
68) p-Ethyltoluene	10.538	105	640465	10.96	ppb	#	97
69) Isopropylbenzene	9.937	105	741247	10.94	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.245	83	95076	10.36	ppb	#	65
72) Bromobenzene	10.283	77	282765	10.30	ppb	#	74
73) trans-1,4-Dichloro-2-b...	10.399	75	6037	11.61	ppb	#	1
74) 1,2,3-Trichloropropane	10.315	110	31596	11.94	ppb	#	1
75) n-Propylbenzene	10.402	91	836267	10.40	ppb	#	89
76) 2-Chlorotoluene	10.498	91	506978	10.40	ppb		98
77) 4-Chlorotoluene	10.634	91	600997	11.06	ppb		95
78) 1,3,5-Trimethylbenzene	10.602	105	618337	11.41	ppb	#	60
79) tert-Butylbenzene	10.954	119	561866	11.21	ppb		96
80) 1,2,4-Trimethylbenzene	11.027	105	614209	11.49	ppb		93
81) sec-Butylbenzene	11.210	105	669942	10.82	ppb	#	91
82) 1,3-Dichlorobenzene	11.343	146	273787	11.34	ppb	#	90
83) p-Isopropyltoluene	11.390	119	610469	11.47	ppb		93
84) 1,4-Dichlorobenzene	11.463	146	279032	11.66	ppb		90
85) 1,2,3-Trimethylbenzene	11.483	105	652932	15.68	ppb	#	91
86) p-Diethylbenzene	11.823	105	297176	10.99	ppb	#	48
87) 1,2-Dichlorobenzene	11.852	146	231950	11.41	ppb	#	100
88) n-Butylbenzene	11.852	91	619424	10.72	ppb	#	88
89) 1,2-Dibromo-3-chloropr...	12.741	75	19414	10.34	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.715	119	462570	10.83	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.700	180	101914	9.40	ppb	#	11
92) Hexachloro-1,3-Butadiene	13.886	225	43621	9.40	ppb	#	61
93) Naphthalene	13.988	128	195174	8.20	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.249	180	66327	7.99	ppb	#	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909894.D
Acq On : 30 Jan 2020 4:50 pm
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV90012920A 10.0 PPB AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 31 12:02:39 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909895.D
Acq On : 30 Jan 2020 5:16 pm
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV90012920A 20.0 PPB AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 31 12:02:58 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.787	70	116005	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.841	117	488326	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.832	152	156286	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.473	65	162839	11.77	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 117.70%				
51) Toluene-d8 (SURR)	7.333	98	628427	9.34	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.40%				
70) p-Bromofluorobenzene (...	10.129	95	259748	9.50	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 95.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	247928	28.37	ppb	#	1
3) Chloromethane	1.760	50	98652m	8.47	ppb		
4) Vinyl Chloride	1.844	62	186937	18.66	ppb	#	98
5) Bromomethane	2.158	94	14544	4.02	ppb		99
6) Chloroethane	2.271	64	98570	18.66	ppb	#	19
7) Trichlorofluoromethane	2.530	101	367157	31.84	ppb	#	19
8) Ethanol	2.657	45	25570	1273.41	ppb	#	1
9) Freon-113	3.041	101	208300	25.28	ppb	#	1
10) 1,1-Dichloroethylene	3.027	61	340375	21.75	ppb	#	82
11) Acrolein	2.907	56	11638	9.43	ppb	#	1
12) Acetone	3.032	43	39040	21.60	ppb	#	1
13) Iodomethane	3.169	142	29427m	4.33	ppb		
14) Methyl Acetate	3.346	43	75645	19.80	ppb	#	1
15) Carbon disulfide	3.259	76	493617	20.53	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.567	59	13457	25.12	ppb	#	1
17) Methylene Chloride	3.489	49	244714	18.55	ppb	#	75
18) Acrylonitrile	3.756	53	2641	9.76	ppb	#	1
19) trans-1,2-Dichloroethy...	3.770	61	321410	21.44	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.762	73	560677	23.38	ppb	#	96
21) 1,1-Dichloroethane	4.160	63	414899	20.76	ppb	#	99
22) Vinyl Acetate	4.151	43	228869	21.63	ppb	#	1
23) Diisopropyl ether (DIPE)	4.212	45	589580	17.04	ppb	#	52
24) Ethyl-tert-Butyl ether...	4.546	59	703876	19.60	ppb	#	79
25) cis-1,2-Dichloroethylene	4.692	61	375720	20.25	ppb	#	86
26) 2-Butanone	4.657	72	13377	19.46	ppb	#	1
27) 2,2-Dichloropropane	4.706	77	370975	21.98	ppb	#	87
28) Tetrahydrofuran	4.942	42	27125	17.39	ppb	#	5
29) Bromochloromethane	4.915	49	137034	18.97	ppb	#	47
30) Chloroform	5.003	83	432549	22.73	ppb	#	85
31) 1,1,1-Trichloroethane	5.183	97	416615	24.32	ppb	#	55
32) Cyclohexane	5.287	56	854713	19.74	ppb	#	81
33) 1,1-Dichloropropylene	5.331	75	321086	21.72	ppb	#	66
35) Carbon Tetrachloride	5.348	117	370435	27.54	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.479	59	107271	226.58	ppb	#	1
37) 1,2-Dichloroethane	5.546	62	315765	23.45	ppb	#	98
38) Benzene	5.508	78	877371	20.33	ppb	#	95
39) tert-Amyl methyl ether...	5.636	73	601403	21.58	ppb	#	1
41) Trichloroethylene	6.145	95	244456	18.33	ppb	#	75
42) Methyl Cyclohexane	6.400	83	393015	18.85	ppb	#	48
43) Methyl Methacrylate	6.406	69	184377	17.57	ppb	#	96
44) Dibromomethane	6.461	93	113847	20.55	ppb	#	90
45) Bromodichloromethane	6.624	83	324587	20.10	ppb	#	97
46) 1,2-Dichloropropane	6.380	63	222815	16.65	ppb	#	93
47) 1,4-Dioxane	6.435	88	16425	506.25	ppb		97
48) 2-Chloroethyl vinyl ether	6.886	63	83290	32.07	ppb	#	1
49) cis-1,3-Dichloropropene	7.051	75	362692	18.66	ppb	#	66
50) 4-Methyl-2-Pentanone	7.168	43	117033	17.40	ppb	#	55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909895.D
Acq On : 30 Jan 2020 5:16 pm
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV90012920A 20.0 PPB AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 31 12:02:58 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

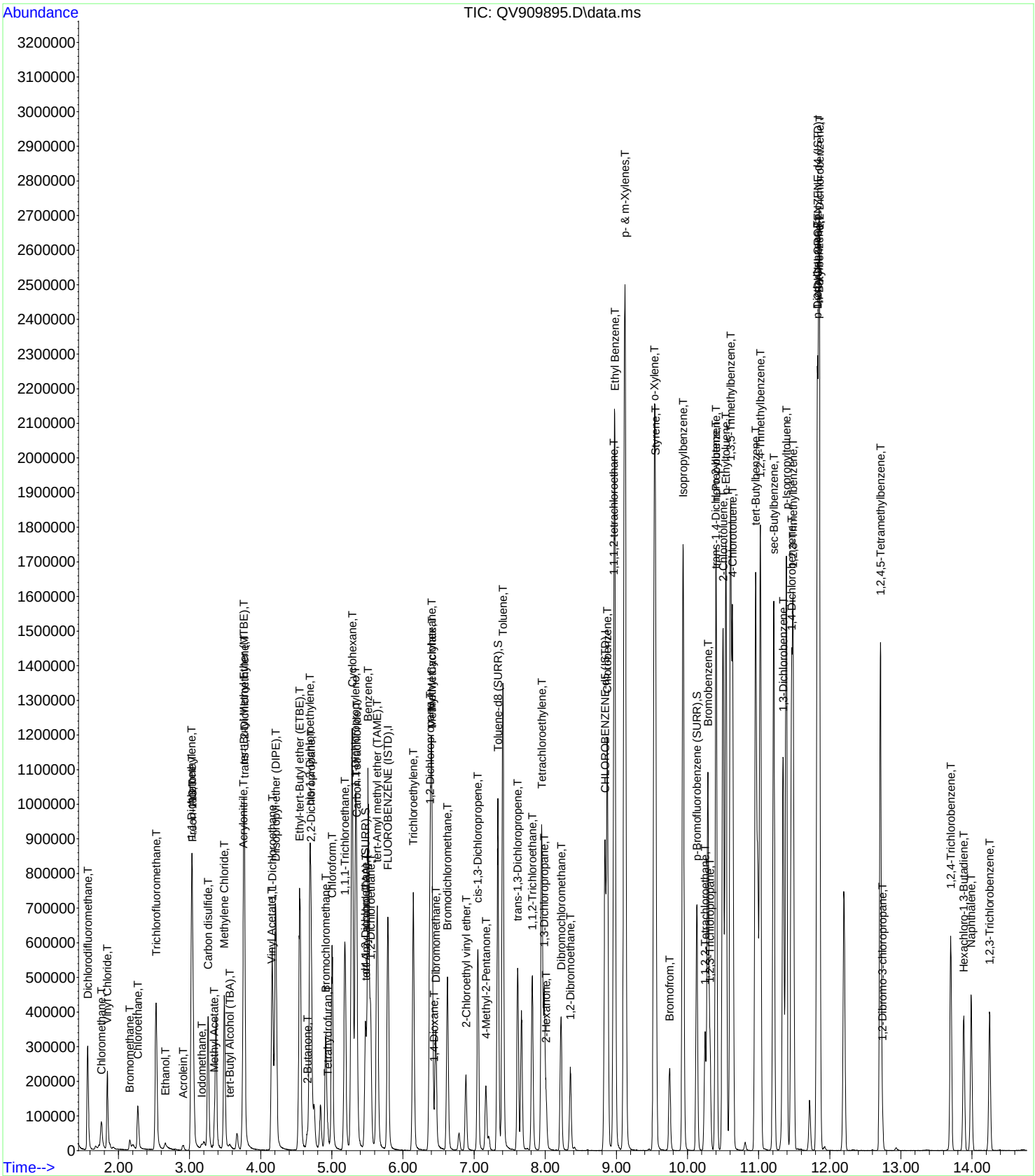
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Toluene	7.403	91	1012756	18.27	ppb		99
53) trans-1,3-Dichloropropene	7.612	75	320096	20.66	ppb	#	99
54) 1,1,2-Trichloroethane	7.816	97	157021	19.19	ppb	#	1
55) 1,3-Dichloropropane	7.984	76	277903	19.07	ppb	#	96
56) Tetrachloroethylene	7.952	166	262519	20.00	ppb	#	100
57) 2-Hexanone	8.013	43	79912	16.57	ppb	#	1
58) Dibromochloromethane	8.222	129	205192	21.81	ppb	#	86
59) 1,2-Dibromoethane	8.353	107	157668	20.88	ppb		94
60) Chlorobenzene	8.873	112	666548	19.64	ppb	#	88
61) 1,1,1,2-tetrachloroethane	8.963	131	242123	23.00	ppb	#	48
62) Ethyl Benzene	8.978	91	1233260	19.77	ppb		96
63) p- & m-Xylenes	9.120	91	1996109	40.59	ppb		93
64) o-Xylene	9.533	91	1009717	20.08	ppb		96
65) Styrene	9.550	104	738132	20.63	ppb	#	82
66) Bromofrom	9.748	173	108509	23.56	ppb	#	95
68) p-Ethyltoluene	10.538	105	1182340	20.40	ppb	#	97
69) Isopropylbenzene	9.937	105	1255379	18.68	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.245	83	168196	18.48	ppb	#	65
72) Bromobenzene	10.286	77	500096	18.37	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.396	75	10513	20.39	ppb	#	1
74) 1,2,3-Trichloropropane	10.315	110	53646	20.44	ppb	#	1
75) n-Propylbenzene	10.402	91	1450335	18.19	ppb	#	88
76) 2-Chlorotoluene	10.501	91	886511	18.33	ppb		98
77) 4-Chlorotoluene	10.634	91	1038893	19.28	ppb		95
78) 1,3,5-Trimethylbenzene	10.605	105	1072886	19.96	ppb	#	60
79) tert-Butylbenzene	10.957	119	996741	20.05	ppb		97
80) 1,2,4-Trimethylbenzene	11.024	105	1076015	20.30	ppb		93
81) sec-Butylbenzene	11.213	105	1171812	19.08	ppb	#	91
82) 1,3-Dichlorobenzene	11.346	146	483264	20.18	ppb		91
83) p-Isopropyltoluene	11.390	119	1034770	19.60	ppb		94
84) 1,4-Dichlorobenzene	11.463	146	475517	20.04	ppb		90
85) 1,2,3-Trimethylbenzene	11.486	105	898301	21.75	ppb	#	90
86) p-Diethylbenzene	11.826	105	548696	20.46	ppb	#	58
87) 1,2-Dichlorobenzene	11.855	146	409801	20.33	ppb	#	100
88) n-Butylbenzene	11.849	91	1110258	19.37	ppb		95
89) 1,2-Dibromo-3-chloropr...	12.738	75	35303	18.93	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.712	119	861575	20.34	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.700	180	185524	17.25	ppb	#	7
92) Hexachloro-1,3-Butadiene	13.883	225	81509	17.72	ppb	#	60
93) Naphthalene	13.988	128	356500	15.02	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.246	180	123748	14.88	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909895.D
Acq On : 30 Jan 2020 5:16 pm
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV90012920A 20.0 PPB AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 31 12:02:58 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909896.D
Acq On : 30 Jan 2020 5:43 pm
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV90012920A 40.0 PPB AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 31 12:03:21 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.787	70	119863	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.838	117	502029	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.831	152	156053	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.467	65	169079	11.83	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 118.30%				
51) Toluene-d8 (SURR)	7.336	98	650773	9.41	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.10%				
70) p-Bromofluorobenzene (...	10.131	95	260659	9.55	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 95.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	444659	49.25	ppb	#	1
3) Chloromethane	1.759	50	184059m	15.29	ppb		
4) Vinyl Chloride	1.847	62	366851	35.43	ppb	#	98
5) Bromomethane	2.160	94	33635	9.01	ppb		96
6) Chloroethane	2.274	64	179727	32.93	ppb	#	19
7) Trichlorofluoromethane	2.529	101	735719	61.74	ppb	#	19
8) Ethanol	2.660	45	42675	1986.99	ppb	#	1
9) Freon-113	3.041	101	401219	47.12	ppb	#	1
10) 1,1-Dichloroethylene	3.026	61	725110	44.84	ppb	#	85
11) Acrolein	2.904	56	26505	20.74	ppb	#	1
12) Acetone	3.032	43	73154	39.18	ppb	#	1
13) Iodomethane	3.169	142	99016m	14.10	ppb		
14) Methyl Acetate	3.352	43	144922	36.72	ppb	#	1
15) Carbon disulfide	3.259	76	1049367	42.24	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.561	59	28387	50.51	ppb	#	1
17) Methylene Chloride	3.488	49	490023	35.94	ppb	#	76
18) Acrylonitrile	3.762	53	12348	44.77	ppb	#	1
19) trans-1,2-Dichloroethy...	3.770	61	672816	43.45	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.759	73	1200318	48.45	ppb	#	95
21) 1,1-Dichloroethane	4.165	63	856179	41.46	ppb	#	99
22) Vinyl Acetate	4.151	43	479504	43.87	ppb	#	1
23) Diisopropyl ether (DIPE)	4.212	45	1186290	33.18	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.552	59	1471920	39.67	ppb	#	99
25) cis-1,2-Dichloroethylene	4.691	61	820966	42.83	ppb	#	86
26) 2-Butanone	4.657	72	27561	41.41	ppb	#	1
27) 2,2-Dichloropropane	4.706	77	809535	46.42	ppb	#	87
28) Tetrahydrofuran	4.944	42	57954	35.97	ppb	#	1
29) Bromochloromethane	4.912	49	263361	35.28	ppb	#	33
30) Chloroform	5.002	83	918698	46.72	ppb	#	85
31) 1,1,1-Trichloroethane	5.183	97	900595	50.89	ppb	#	44
32) Cyclohexane	5.287	56	1739649	38.88	ppb	#	81
33) 1,1-Dichloropropylene	5.334	75	688543	45.09	ppb	#	62
35) Carbon Tetrachloride	5.348	117	796651	57.32	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.479	59	228930	467.99	ppb	#	1
37) 1,2-Dichloroethane	5.543	62	674912	48.50	ppb	#	100
38) Benzene	5.514	78	1859352	41.70	ppb	#	95
39) tert-Amyl methyl ether...	5.639	73	1246949	43.30	ppb	#	1
41) Trichloroethylene	6.144	95	527975	38.52	ppb	#	73
42) Methyl Cyclohexane	6.394	83	741501	34.58	ppb	#	45
43) Methyl Methacrylate	6.403	69	368180	34.12	ppb	#	96
44) Dibromomethane	6.461	93	241550	42.40	ppb	#	89
45) Bromodichloromethane	6.624	83	711424	42.86	ppb	#	96
46) 1,2-Dichloropropane	6.377	63	470341	34.19	ppb	#	84
47) 1,4-Dioxane	6.441	88	39690m	1162.82	ppb		
48) 2-Chloroethyl vinyl ether	6.883	63	162451	60.85	ppb	#	1
49) cis-1,3-Dichloropropene	7.054	75	793300	39.69	ppb	#	63
50) 4-Methyl-2-Pentanone	7.164	43	238599	34.50	ppb	#	46

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909896.D
Acq On : 30 Jan 2020 5:43 pm
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV90012920A 40.0 PPB AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 31 12:03:21 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

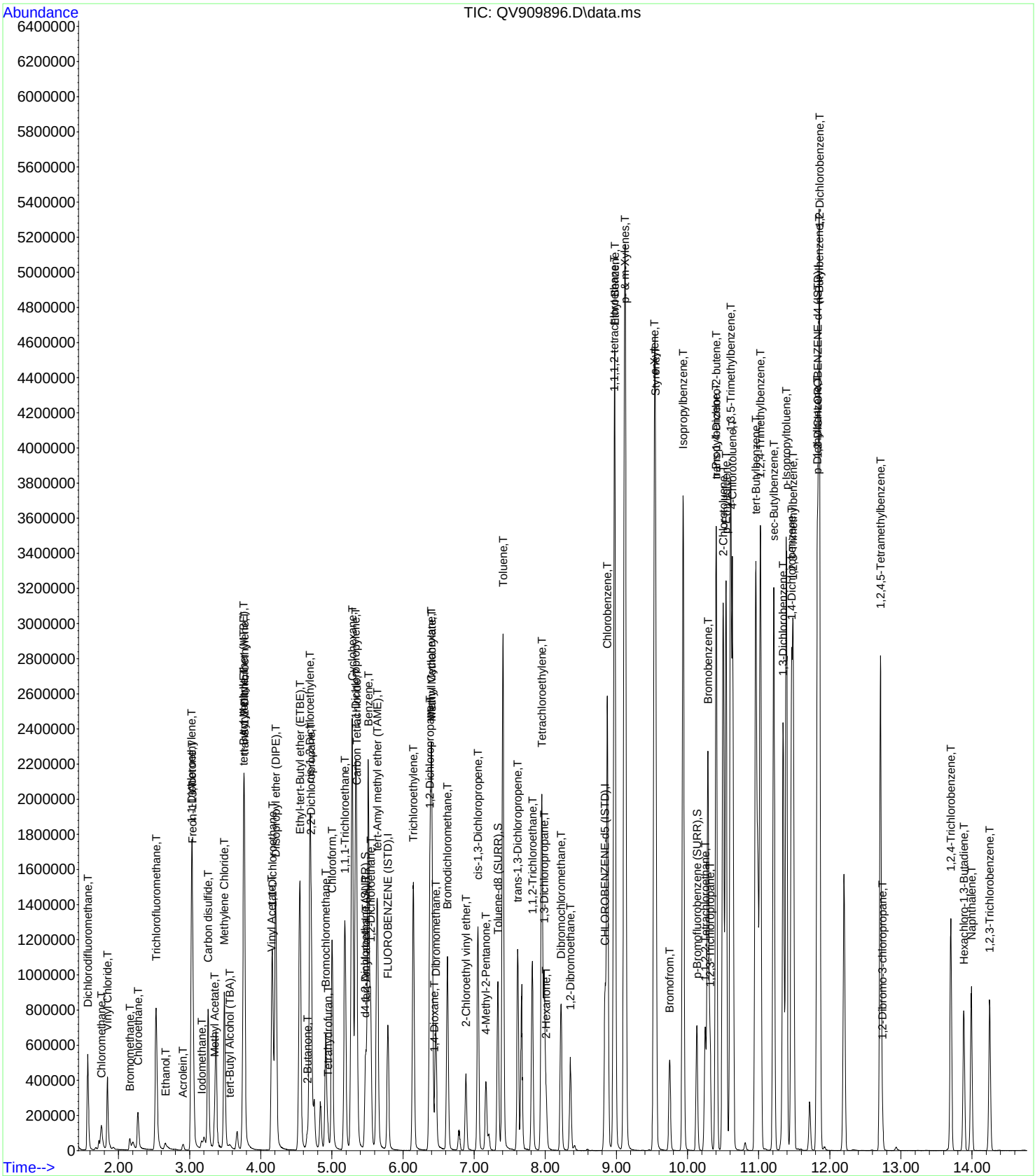
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Toluene	7.406	91	2169635	38.07	ppb		99
53) trans-1,3-Dichloropropene	7.612	75	703936	44.20	ppb	#	99
54) 1,1,2-Trichloroethane	7.818	97	339358	40.35	ppb	#	1
55) 1,3-Dichloropropane	7.984	76	607048	40.52	ppb	#	68
56) Tetrachloroethylene	7.952	166	570184	42.25	ppb	#	100
57) 2-Hexanone	8.013	43	171727	34.63	ppb	#	1
58) Dibromochloromethane	8.219	129	451300	45.83	ppb	#	86
59) 1,2-Dibromoethane	8.353	107	335819	43.26	ppb		93
60) Chlorobenzene	8.873	112	1431059	41.01	ppb	#	89
61) 1,1,1,2-tetrachloroethane	8.969	131	512433	47.35	ppb	#	47
62) Ethyl Benzene	8.978	91	2601485	40.57	ppb		96
63) p- & m-Xylenes	9.120	91	4259158	84.24	ppb		91
64) o-Xylene	9.533	91	2108913	40.80	ppb		96
65) Styrene	9.550	104	1552895	42.21	ppb	#	82
66) Bromofrom	9.748	173	234182	48.65	ppb	#	95
68) p-Ethyltoluene	10.541	105	2208168	38.15	ppb	#	97
69) Isopropylbenzene	9.937	105	2620595	39.06	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.248	83	345224	37.99	ppb	#	65
72) Bromobenzene	10.285	77	1032567	37.98	ppb	#	74
73) trans-1,4-Dichloro-2-b...	10.405	75	21064	40.92	ppb	#	1
74) 1,2,3-Trichloropropane	10.317	110	113703	43.38	ppb	#	1
75) n-Propylbenzene	10.402	91	3004916	37.74	ppb	#	89
76) 2-Chlorotoluene	10.500	91	1845351	38.22	ppb		98
77) 4-Chlorotoluene	10.631	91	2139056	39.76	ppb		95
78) 1,3,5-Trimethylbenzene	10.605	105	2200418	41.00	ppb	#	60
79) tert-Butylbenzene	10.963	119	2048366	41.26	ppb		98
80) 1,2,4-Trimethylbenzene	11.024	105	2204441	41.66	ppb		92
81) sec-Butylbenzene	11.212	105	2386650	38.92	ppb	#	91
82) 1,3-Dichlorobenzene	11.343	146	980745	41.02	ppb	#	90
83) p-Isopropyltoluene	11.387	119	2130115	40.41	ppb		93
84) 1,4-Dichlorobenzene	11.462	146	981144	41.42	ppb		90
85) 1,2,3-Trimethylbenzene	11.486	105	1717343	41.65	ppb	#	91
86) p-Diethylbenzene	11.826	105	1021637	38.15	ppb	#	55
87) 1,2-Dichlorobenzene	11.855	146	830750	41.28	ppb	#	100
88) n-Butylbenzene	11.849	91	2179645	38.08	ppb		93
89) 1,2-Dibromo-3-chloropr...	12.738	75	72197	38.63	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.712	119	1627591	38.48	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.703	180	403756	37.61	ppb	#	14
92) Hexachloro-1,3-Butadiene	13.886	225	167327	36.43	ppb	#	63
93) Naphthalene	13.993	128	746733	31.08	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.246	180	261578	30.83	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909896.D
Acq On : 30 Jan 2020 5:43 pm
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV90012920A 40.0 PPB AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 31 12:03:21 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909897.D
Acq On : 30 Jan 2020 6:10 pm
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV90012920A 80.0 PPB AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 31 12:03:40 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.790	70	119464	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	8.838	117	500006	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.831	152	161091	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.473	65	169088	11.87	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 118.70%				
51) Toluene-d8 (SURR)	7.336	98	652686	9.48	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.80%				
70) p-Bromofluorobenzene (...	10.131	95	260084	9.23	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.567	85	1013898	112.67	ppb	#	1
3) Chloromethane	1.771	50	442355m	36.87	ppb		
4) Vinyl Chloride	1.844	62	922666	89.41	ppb	#	98
5) Bromomethane	2.163	94	88817	23.86	ppb		99
6) Chloroethane	2.274	64	450954	82.91	ppb	#	19
7) Trichlorofluoromethane	2.535	101	1687468	142.09	ppb	#	20
8) Ethanol	2.660	45	125507	5105.40	ppb	#	1
9) Freon-113	3.044	101	872168	102.78	ppb	#	1
10) 1,1-Dichloroethylene	3.029	61	1545528	95.89	ppb	#	85
11) Acrolein	2.904	56	59083	46.10	ppb	#	1
12) Acetone	3.032	43	151906	81.63	ppb	#	1
13) Iodomethane	3.215	142	272213m	38.88	ppb		
14) Methyl Acetate	3.349	43	331015	84.15	ppb	#	1
15) Carbon disulfide	3.259	76	2361296	95.37	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.570	59	62109m	107.23	ppb		
17) Methylene Chloride	3.488	49	1127481	82.97	ppb	#	73
18) Acrylonitrile	3.764	53	23575	87.23	ppb	#	1
19) trans-1,2-Dichloroethy...	3.767	61	1467435	95.07	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.756	73	2583821	104.64	ppb	#	96
21) 1,1-Dichloroethane	4.165	63	1821748	88.51	ppb	#	99
22) Vinyl Acetate	4.154	43	1023315	93.93	ppb	#	1
23) Diisopropyl ether (DIPE)	4.209	45	2579194	72.38	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.549	59	3255411	88.04	ppb	#	79
25) cis-1,2-Dichloroethylene	4.691	61	1713064	89.68	ppb	#	86
26) 2-Butanone	4.657	72	59430	92.77	ppb	#	1
27) 2,2-Dichloropropane	4.706	77	1715736	98.71	ppb	#	87
28) Tetrahydrofuran	4.944	42	125793	78.33	ppb	#	1
29) Bromochloromethane	4.912	49	577284	77.59	ppb	#	44
30) Chloroform	5.005	83	1994307	101.76	ppb	#	85
31) 1,1,1-Trichloroethane	5.183	97	1935772	109.75	ppb	#	74
32) Cyclohexane	5.287	56	3718141	83.38	ppb	#	81
33) 1,1-Dichloropropylene	5.334	75	1477899	97.10	ppb	#	65
35) Carbon Tetrachloride	5.345	117	1773718	128.05	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.479	59	516026	1058.41	ppb	#	1
37) 1,2-Dichloroethane	5.546	62	1440487	103.86	ppb	#	100
38) Benzene	5.514	78	4052406	91.18	ppb	#	94
39) tert-Amyl methyl ether...	5.636	73	2739447	95.44	ppb	#	1
41) Trichloroethylene	6.147	95	1156156	84.69	ppb	#	75
42) Methyl Cyclohexane	6.403	83	1731405	81.08	ppb	#	51
43) Methyl Methacrylate	6.409	69	813091	75.67	ppb	#	96
44) Dibromomethane	6.461	93	521778	91.97	ppb	#	89
45) Bromodichloromethane	6.627	83	1548916	93.69	ppb	#	97
46) 1,2-Dichloropropane	6.380	63	1002368	73.15	ppb	#	84
47) 1,4-Dioxane	6.444	88	81109	2295.66	ppb	#	86
48) 2-Chloroethyl vinyl ether	6.888	63	361792	136.07	ppb	#	1
49) cis-1,3-Dichloropropene	7.057	75	1716004	86.21	ppb	#	62
50) 4-Methyl-2-Pentanone	7.164	43	522257	75.82	ppb	#	46

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909897.D
Acq On : 30 Jan 2020 6:10 pm
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV90012920A 80.0 PPB AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 31 12:03:40 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

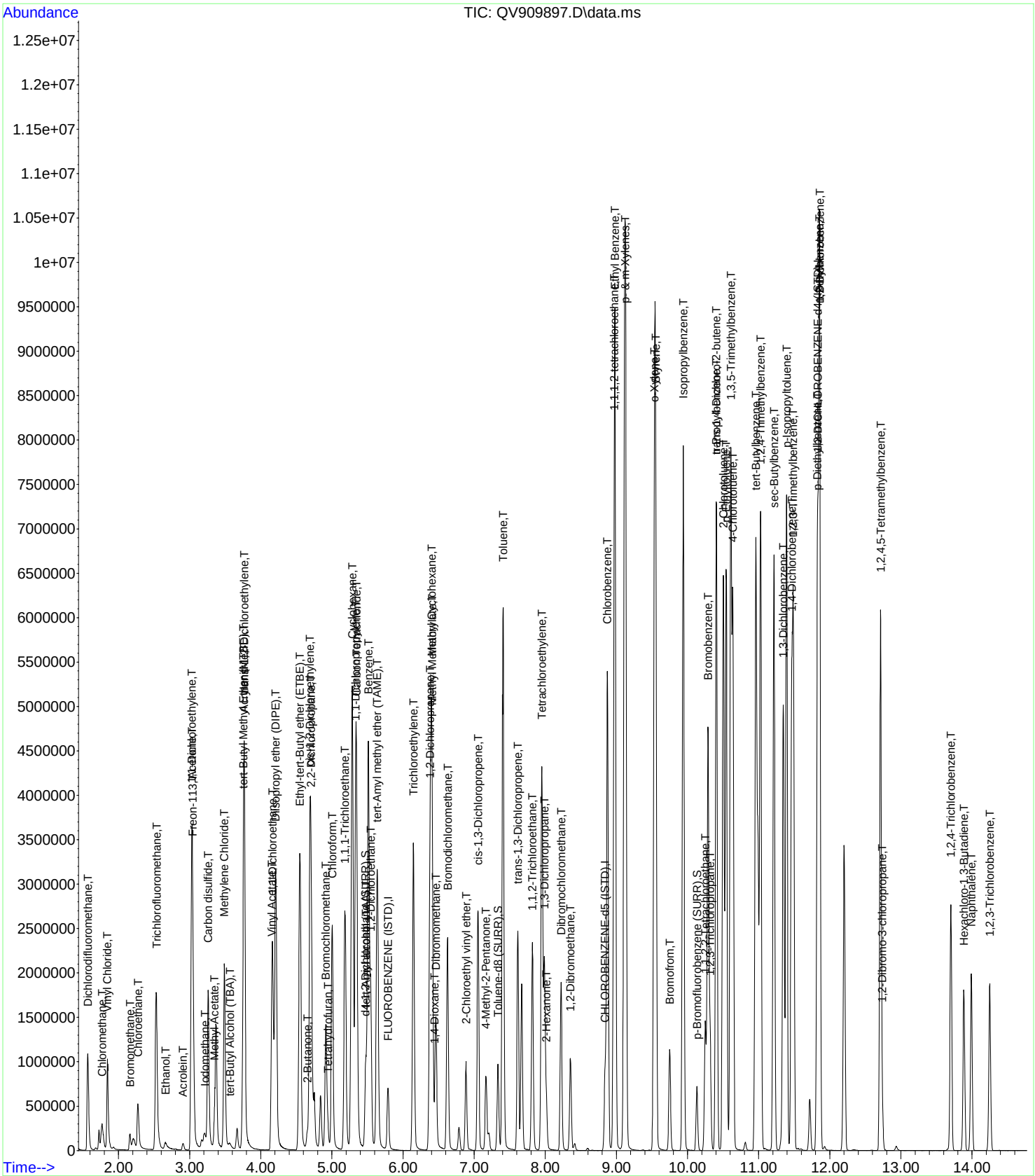
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Toluene	7.406	91	4649993	81.91	ppb		100
53) trans-1,3-Dichloropropene	7.615	75	1522216	95.97	ppb	#	99
54) 1,1,2-Trichloroethane	7.815	97	740486	88.40	ppb	#	1
55) 1,3-Dichloropropane	7.987	76	1289527	86.43	ppb	#	68
56) Tetrachloroethylene	7.952	166	1227492	91.32	ppb	#	100
57) 2-Hexanone	8.016	43	353489	71.56	ppb	#	1
58) Dibromochloromethane	8.222	129	982494	96.56	ppb	#	85
59) 1,2-Dibromoethane	8.353	107	711486	92.02	ppb		93
60) Chlorobenzene	8.873	112	3046317	87.65	ppb	#	89
61) 1,1,1,2-tetrachloroethane	8.969	131	1100398	102.10	ppb	#	47
62) Ethyl Benzene	8.981	91	5437596	85.15	ppb		96
63) p- & m-Xylenes	9.123	91	8772641	174.21	ppb		92
64) o-Xylene	9.533	91	4440802	86.26	ppb		96
65) Styrene	9.553	104	3251293	88.73	ppb	#	82
66) Bromofrom	9.751	173	517023	104.04	ppb	#	81
68) p-Ethyltoluene	10.541	105	4674078	78.22	ppb	#	97
69) Isopropylbenzene	9.940	105	5505044	79.48	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.251	83	723163	77.09	ppb	#	65
72) Bromobenzene	10.288	77	2142724	76.34	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.405	75	43137	81.18	ppb	#	1
74) 1,2,3-Trichloropropane	10.317	110	236423	87.38	ppb	#	1
75) n-Propylbenzene	10.405	91	6232967	75.83	ppb	#	89
76) 2-Chlorotoluene	10.503	91	3847081	77.19	ppb		98
77) 4-Chlorotoluene	10.637	91	4414279	79.48	ppb		95
78) 1,3,5-Trimethylbenzene	10.608	105	4503595	81.28	ppb	#	59
79) tert-Butylbenzene	10.960	119	4220342	82.34	ppb		97
80) 1,2,4-Trimethylbenzene	11.026	105	4472895	81.88	ppb		93
81) sec-Butylbenzene	11.215	105	4997974	78.96	ppb	#	91
82) 1,3-Dichlorobenzene	11.346	146	2098893	85.04	ppb		92
83) p-Isopropyltoluene	11.393	119	4491802	82.54	ppb		93
84) 1,4-Dichlorobenzene	11.465	146	2042547	83.52	ppb		90
85) 1,2,3-Trimethylbenzene	11.486	105	3616148	84.95	ppb	#	90
86) p-Diethylbenzene	11.826	105	2174628	78.67	ppb	#	55
87) 1,2-Dichlorobenzene	11.858	146	1734204	83.48	ppb	#	100
88) n-Butylbenzene	11.852	91	4558297	77.15	ppb		92
89) 1,2-Dibromo-3-chloropr...	12.735	75	152423	78.38	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.715	119	3556268	81.44	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.703	180	864799	78.03	ppb	#	10
92) Hexachloro-1,3-Butadiene	13.886	225	375948	79.29	ppb	#	62
93) Naphthalene	13.991	128	1655476	64.88	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.249	180	598164	65.25	ppb	#	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909897.D
Acq On : 30 Jan 2020 6:10 pm
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV90012920A 80.0 PPB AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 31 12:03:40 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909898.D
Acq On : 30 Jan 2020 6:36 pm
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV90012920A 120 PPB AQU
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 31 12:03:59 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.787	70	134598	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.844	117	538052	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.834	152	165007	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.473	65	181396	11.30	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 113.00%				
51) Toluene-d8 (SURR)	7.336	98	720464	9.72	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.20%				
70) p-Bromofluorobenzene (...	10.134	95	274086	9.49	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 94.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.571	85	1528794	150.78	ppb	#	1
3) Chloromethane	1.768	50	619899m	45.86	ppb		
4) Vinyl Chloride	1.847	62	1255150	107.95	ppb	#	98
5) Bromomethane	2.158	94	165621	39.50	ppb		99
6) Chloroethane	2.274	64	628733	102.60	ppb	#	19
7) Trichlorofluoromethane	2.530	101	2470351	184.62	ppb	#	19
8) Ethanol	2.663	45	219339	7267.73	ppb	#	1
9) Freon-113	3.041	101	1444493	151.09	ppb	#	1
10) 1,1-Dichloroethylene	3.026	61	2379876	131.05	ppb	#	83
11) Acrolein	2.904	56	92516	63.79	ppb	#	1
12) Acetone	3.035	43	222050	105.90	ppb	#	1
13) Iodomethane	3.209	142	554939m	70.35	ppb		
14) Methyl Acetate	3.352	43	508744	114.79	ppb	#	1
15) Carbon disulfide	3.259	76	3636267	130.35	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.567	59	97586	146.23	ppb	#	1
17) Methylene Chloride	3.486	49	1664391	108.71	ppb	#	74
18) Acrylonitrile	3.759	53	36031	119.90	ppb	#	1
19) trans-1,2-Dichloroethy...	3.767	61	2199588	126.48	ppb	#	84
20) tert-Butyl Methyl Ethe...	3.759	73	4009184	144.11	ppb	#	95
21) 1,1-Dichloroethane	4.168	63	2724007	117.47	ppb	#	99
22) Vinyl Acetate	4.154	43	1560811	127.15	ppb	#	1
23) Diisopropyl ether (DIPE)	4.212	45	4020001	100.13	ppb	#	49
24) Ethyl-tert-Butyl ether...	4.546	59	5032752	120.80	ppb	#	79
25) cis-1,2-Dichloroethylene	4.689	61	2592537	120.46	ppb	#	85
26) 2-Butanone	4.651	72	95123	133.05	ppb	#	1
27) 2,2-Dichloropropane	4.706	77	2727681	139.29	ppb	#	91
28) Tetrahydrofuran	4.944	42	189848	104.92	ppb	#	1
29) Bromochloromethane	4.915	49	812795	96.96	ppb	#	43
30) Chloroform	5.005	83	2936246	132.98	ppb	#	95
31) 1,1,1-Trichloroethane	5.186	97	3053664	153.66	ppb	#	55
32) Cyclohexane	5.284	56	5734803	114.14	ppb	#	79
33) 1,1-Dichloropropylene	5.334	75	2248010	131.09	ppb	#	98
35) Carbon Tetrachloride	5.351	117	2710500	173.68	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.479	59	780807	1421.42	ppb	#	1
37) 1,2-Dichloroethane	5.543	62	2128927	136.24	ppb	#	100
38) Benzene	5.514	78	6237947	124.58	ppb	#	95
39) tert-Amyl methyl ether...	5.639	73	4201630	129.92	ppb	#	1
41) Trichloroethylene	6.145	95	1781734	121.28	ppb	#	76
42) Methyl Cyclohexane	6.400	83	2660564	115.79	ppb	#	53
43) Methyl Methacrylate	6.409	69	1232106	106.55	ppb	#	96
44) Dibromomethane	6.458	93	767185	125.66	ppb	#	88
45) Bromodichloromethane	6.627	83	2357547	132.52	ppb	#	96
46) 1,2-Dichloropropane	6.377	63	1524421	103.38	ppb	#	89
47) 1,4-Dioxane	6.444	88	132110	3355.93	ppb	#	86
48) 2-Chloroethyl vinyl ether	6.886	63	546693	191.07	ppb	#	1
49) cis-1,3-Dichloropropene	7.057	75	2585602	120.71	ppb	#	64
50) 4-Methyl-2-Pentanone	7.167	43	792948	106.98	ppb	#	52

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909898.D
Acq On : 30 Jan 2020 6:36 pm
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV90012920A 120 PPB AQU
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 31 12:03:59 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

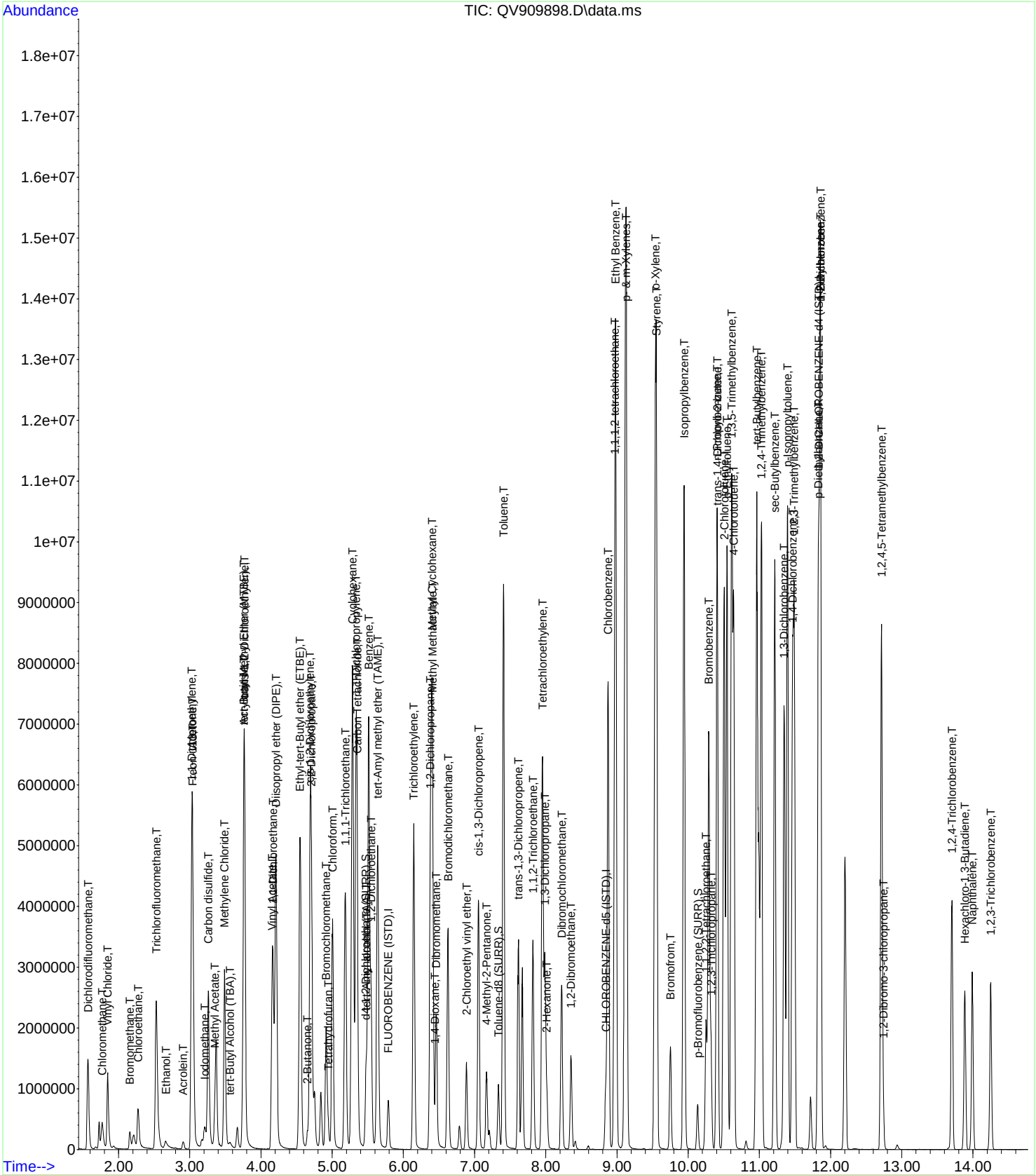
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Toluene	7.406	91	7021842	114.95	ppb		99
53) trans-1,3-Dichloropropene	7.615	75	2243499	131.44	ppb	#	98
54) 1,1,2-Trichloroethane	7.818	97	1098690	121.89	ppb	#	1
55) 1,3-Dichloropropane	7.987	76	1914751	119.26	ppb	#	68
56) Tetrachloroethylene	7.955	166	1869410	129.24	ppb	#	100
57) 2-Hexanone	8.013	43	512149	96.35	ppb	#	1
58) Dibromochloromethane	8.222	129	1480671	131.91	ppb	#	85
59) 1,2-Dibromoethane	8.353	107	1048850	126.07	ppb		93
60) Chlorobenzene	8.876	112	4527432	121.05	ppb	#	89
61) 1,1,1,2-tetrachloroethane	8.969	131	1655727	142.76	ppb	#	48
62) Ethyl Benzene	8.981	91	7894902	114.89	ppb		97
63) p- & m-Xylenes	9.126	91	12718429	234.71	ppb		92
64) o-Xylene	9.542	91	6485151	117.06	ppb		96
65) Styrene	9.553	104	4795423	121.62	ppb	#	82
66) Bromofrom	9.751	173	759649	138.97	ppb	#	81
68) p-Ethyltoluene	10.544	105	6831236	111.61	ppb	#	97
69) Isopropylbenzene	9.943	105	8074493	113.81	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.251	83	1057385	110.04	ppb	#	65
72) Bromobenzene	10.288	77	3152737	109.66	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.410	75	61859	113.64	ppb	#	1
74) 1,2,3-Trichloropropane	10.323	110	342711	123.66	ppb	#	1
75) n-Propylbenzene	10.408	91	9019506	107.13	ppb	#	89
76) 2-Chlorotoluene	10.506	91	5655902	110.79	ppb		98
77) 4-Chlorotoluene	10.640	91	6390063	112.32	ppb		95
78) 1,3,5-Trimethylbenzene	10.608	105	6540794	115.25	ppb	#	60
79) tert-Butylbenzene	10.966	119	6151396	117.17	ppb		97
80) 1,2,4-Trimethylbenzene	11.027	105	6518793	116.50	ppb		93
81) sec-Butylbenzene	11.215	105	7263915	112.04	ppb	#	92
82) 1,3-Dichlorobenzene	11.346	146	3072273	121.53	ppb		92
83) p-Isopropyltoluene	11.393	119	6587526	118.18	ppb		93
84) 1,4-Dichlorobenzene	11.465	146	3016634	120.43	ppb		91
85) 1,2,3-Trimethylbenzene	11.489	105	5411798	124.12	ppb	#	88
86) p-Diethylbenzene	11.829	105	3154485	111.42	ppb	#	55
87) 1,2-Dichlorobenzene	11.858	146	2509694	117.94	ppb	#	100
88) n-Butylbenzene	11.855	91	6543063	108.11	ppb		92
89) 1,2-Dibromo-3-chloropr...	12.741	75	224293	111.87	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.715	119	5299935	118.49	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.706	180	1278643	112.63	ppb	#	8
92) Hexachloro-1,3-Butadiene	13.886	225	557576	114.81	ppb	#	63
93) Naphthalene	13.991	128	2423810	90.78	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.249	180	878375	90.57	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909898.D
Acq On : 30 Jan 2020 6:36 pm
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV90012920A 120 PPB AQU
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 31 12:03:59 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909899.D
Acq On : 30 Jan 2020 7:03 pm
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV90012920A 160 PPB AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 31 11:50:08 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.790	70	140496	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.844	117	558001	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.834	152	163866	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.473	65	178403	10.65	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 106.50%				
51) Toluene-d8 (SURR)	7.336	98	750559	9.77	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.70%				
70) p-Bromofluorobenzene (...	10.131	95	275184	9.60	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	2110999	199.46	ppb	#	1
3) Chloromethane	1.727	50	734918m	52.09	ppb		
4) Vinyl Chloride	1.844	62	2081965	171.55	ppb	#	98
5) Bromomethane	2.163	94	290065	66.27	ppb		98
6) Chloroethane	2.271	64	973486	152.18	ppb	#	19
7) Trichlorofluoromethane	2.532	101	3469135	248.38	ppb	#	19
8) Ethanol	2.663	45	287806	8672.58	ppb	#	1
9) Freon-113	3.041	101	1861644	186.55	ppb	#	1
10) 1,1-Dichloroethylene	3.026	61	3416884	180.25	ppb	#	87
11) Acrolein	2.907	56	139085	91.28	ppb	#	1
12) Acetone	3.038	43	308926	141.15	ppb	#	1
13) Iodomethane	3.204	142	785515	95.40	ppb	#	72
14) Methyl Acetate	3.352	43	739800	159.91	ppb	#	1
15) Carbon disulfide	3.262	76	5432197	186.55	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.567	59	140798	196.53	ppb	#	1
17) Methylene Chloride	3.485	49	2525133	158.00	ppb	#	73
18) Acrylonitrile	3.756	53	52587	171.22	ppb	#	1
19) trans-1,2-Dichloroethy...	3.770	61	3106442	171.13	ppb	#	83
20) tert-Butyl Methyl Ethe...	3.759	73	5641554	194.27	ppb	#	95
21) 1,1-Dichloroethane	4.168	63	3984707	164.62	ppb	#	99
22) Vinyl Acetate	4.154	43	2138884	166.93	ppb	#	1
23) Diisopropyl ether (DIPE)	4.212	45	5600089	133.63	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.552	59	7142433	164.24	ppb	#	99
25) cis-1,2-Dichloroethylene	4.691	61	3757844	167.27	ppb	#	85
26) 2-Butanone	4.657	72	129505	174.54	ppb	#	1
27) 2,2-Dichloropropane	4.706	77	3823311	187.04	ppb	#	90
28) Tetrahydrofuran	4.941	42	269073	142.47	ppb	#	1
29) Bromochloromethane	4.915	49	1288978	147.31	ppb	#	33
30) Chloroform	5.005	83	4266457	185.11	ppb	#	85
31) 1,1,1-Trichloroethane	5.188	97	4380749	211.19	ppb	#	43
32) Cyclohexane	5.293	56	7686410	146.56	ppb	#	80
33) 1,1-Dichloropropylene	5.334	75	3164060	176.76	ppb	#	70
35) Carbon Tetrachloride	5.351	117	3709174	227.69	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.482	59	1115415	1945.32	ppb	#	1
37) 1,2-Dichloroethane	5.549	62	2946049	180.62	ppb	#	100
38) Benzene	5.514	78	8812373	168.61	ppb	#	95
39) tert-Amyl methyl ether...	5.639	73	6113704	181.11	ppb	#	1
41) Trichloroethylene	6.147	95	2551468	167.47	ppb	#	76
42) Methyl Cyclohexane	6.403	83	3523011	147.84	ppb	#	52
43) Methyl Methacrylate	6.412	69	1699176	141.69	ppb	#	96
44) Dibromomethane	6.464	93	1019297	160.98	ppb	#	89
45) Bromodichloromethane	6.627	83	3385252	183.49	ppb	#	96
46) 1,2-Dichloropropane	6.380	63	2180906	142.62	ppb	#	89
47) 1,4-Dioxane	6.447	88	167917	4026.01	ppb	#	86
48) 2-Chloroethyl vinyl ether	6.888	63	783136	263.92	ppb	#	1
49) cis-1,3-Dichloropropene	7.057	75	3727419	167.80	ppb	#	65
50) 4-Methyl-2-Pentanone	7.167	43	1071647	139.41	ppb	#	42

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909899.D
Acq On : 30 Jan 2020 7:03 pm
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV90012920A 160 PPB AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 31 11:50:08 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

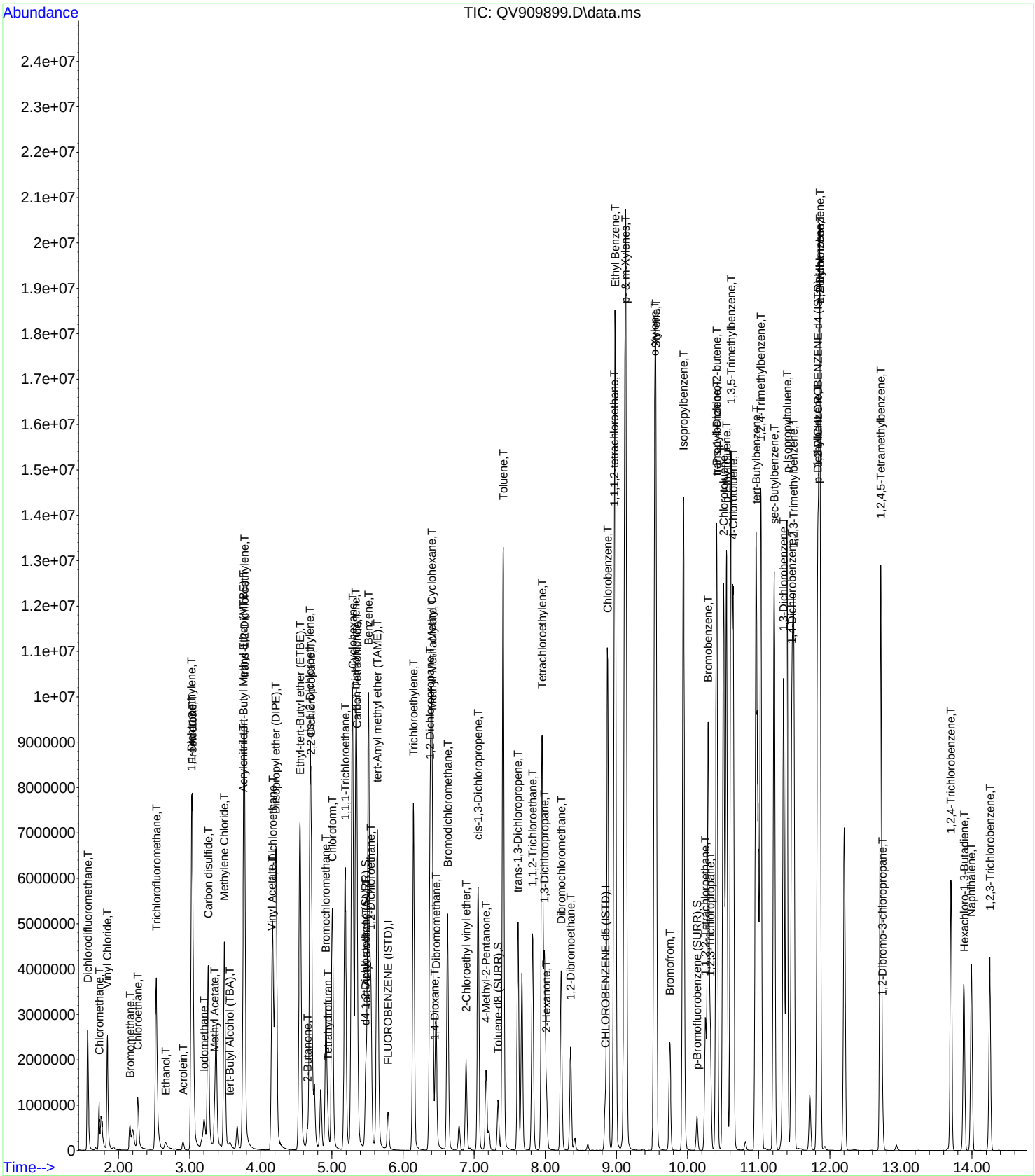
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Toluene	7.409	91	10059743	158.79	ppb		99
53) trans-1,3-Dichloropropene	7.615	75	3207621	181.21	ppb	#	98
54) 1,1,2-Trichloroethane	7.821	97	1574462	168.43	ppb	#	1
55) 1,3-Dichloropropane	7.987	76	2717457	163.21	ppb	#	93
56) Tetrachloroethylene	7.955	166	2680159	178.67	ppb	#	100
57) 2-Hexanone	8.016	43	733302	133.03	ppb	#	1
58) Dibromochloromethane	8.222	129	2131983	177.53	ppb	#	84
59) 1,2-Dibromoethane	8.356	107	1504575	174.38	ppb		92
60) Chlorobenzene	8.879	112	6404573	165.12	ppb	#	88
61) 1,1,1,2-tetrachloroethane	8.969	131	2292837	190.63	ppb	#	47
62) Ethyl Benzene	8.984	91	10877235	152.63	ppb		96
63) p- & m-Xylenes	9.129	91	17130041	304.83	ppb		94
64) o-Xylene	9.539	91	8892797	154.79	ppb		96
65) Styrene	9.556	104	6477932	158.41	ppb	#	82
66) Bromofrom	9.751	173	1094381	187.40	ppb	#	81
68) p-Ethyltoluene	10.547	105	9498670	156.27	ppb	#	97
69) Isopropylbenzene	9.943	105	10944364	155.34	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.248	83	1517194	158.99	ppb	#	65
72) Bromobenzene	10.288	77	4352891	152.46	ppb	#	76
73) trans-1,4-Dichloro-2-b...	10.410	75	83224	153.96	ppb	#	1
74) 1,2,3-Trichloropropane	10.320	110	477268	173.41	ppb	#	1
75) n-Propylbenzene	10.410	91	12343335	147.62	ppb	#	88
76) 2-Chlorotoluene	10.506	91	7713074	152.13	ppb		98
77) 4-Chlorotoluene	10.643	91	8943020	158.30	ppb		95
78) 1,3,5-Trimethylbenzene	10.611	105	9032879	160.27	ppb	#	59
79) tert-Butylbenzene	10.968	119	8615553	165.25	ppb		97
80) 1,2,4-Trimethylbenzene	11.029	105	8984269	161.68	ppb		94
81) sec-Butylbenzene	11.218	105	10059718	156.24	ppb	#	92
82) 1,3-Dichlorobenzene	11.349	146	4310635	171.70	ppb		92
83) p-Isopropyltoluene	11.398	119	8954798	161.77	ppb		94
84) 1,4-Dichlorobenzene	11.465	146	4208747	169.19	ppb		91
85) 1,2,3-Trimethylbenzene	11.491	105	7237441	167.15	ppb	#	91
86) p-Diethylbenzene	11.831	105	4351280	154.76	ppb	#	58
87) 1,2-Dichlorobenzene	11.860	146	3496564	165.47	ppb	#	100
88) n-Butylbenzene	11.858	91	8840478	147.09	ppb		94
89) 1,2-Dibromo-3-chloropr...	12.738	75	321328	159.89	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.718	119	7579704	170.64	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.703	180	1907531	169.20	ppb	#	14
92) Hexachloro-1,3-Butadiene	13.892	225	825377	171.13	ppb	#	65
93) Naphthalene	13.991	128	3545457	129.61	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.252	180	1318752	130.42	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909899.D
Acq On : 30 Jan 2020 7:03 pm
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV90012920A 160 PPB AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 31 11:50:08 2020
Quant Method : C:\msdchem\1\methods\VQ9LO021.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Sat Dec 21 17:19:56 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406457.D
Acq On : 22 Dec 2019 4:10 pm
Operator : SS
Sample : SEQ-CAL1
Misc : QBV5122219A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 10:52:20 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	879368	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2890024	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	1216239	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.437	65	1286559	50.19	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.38%				
53) Toluene-d8 (SURR)	7.273	98	4246140	50.51	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.02%				
73) p-Bromofluorobenzene (...	10.051	95	1682397	51.81	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.62%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	72874	5.84	ppb	#	68
3) Chloromethane	1.727	50	57355m	5.37	ppb		
4) Vinyl Chloride	1.804	62	62249m	4.80	ppb		
5) Bromomethane	2.109	94	45021m	4.18	ppb		
6) Chloroethane	2.222	64	39121	4.95	ppb		97
7) Trichlorofluoromethane	2.482	101	88892	4.82	ppb		99
8) Ethanol	2.662	45	42402	241.60	ppb		100
9) Freon-113	3.000	101	61225	4.48	ppb		96
10) 1,1-Dichloroethylene	2.984	61	94922	4.85	ppb		95
11) Acrolein	2.887	56	10473	4.24	ppb	#	100
12) Acetone	3.022	43	28711	5.11	ppb		99
13) Iodomethane	3.129	142	45620m	3.66	ppb		
14) Allyl Chloride	3.325	43	51228	4.76	ppb		92
15) Methyl Acetate	3.325	43	51228	4.76	ppb		98
16) Carbon disulfide	3.202	76	158401	7.73	ppb		100
17) tert-Butyl Alcohol (TBA)	3.563	59	41220	22.13	ppb	#	96
18) Methylene Chloride	3.460	49	74791	5.07	ppb		86
19) Acrylonitrile	3.669	53	26082	4.82	ppb		99
20) trans-1,2-Dichloroethy...	3.723	61	94077	4.87	ppb		98
21) tert-Butyl Methyl Ethe...	3.723	73	210666	5.01	ppb	#	100
22) 1,1-Dichloroethane	4.132	63	122039	4.89	ppb	#	100
23) Vinyl Acetate	4.128	43	109797	5.11	ppb		99
24) Diisopropyl ether (DIPE)	4.167	45	179898	5.22	ppb		96
25) Ethyl-tert-Butyl ether...	4.505	59	207296	5.21	ppb	#	98
26) cis-1,2-Dichloroethylene	4.662	61	109523	4.86	ppb	#	84
27) 2-Butanone	4.640	72	11653	4.67	ppb		92
28) 2,2-Dichloropropane	4.672	77	94711	4.65	ppb	#	77
29) Tetrahydrofuran	4.903	42	21925	4.96	ppb		86
30) Bromochloromethane	4.881	49	48640	5.03	ppb		98
31) Chloroform	4.971	83	129190	4.80	ppb	#	94
32) 1,1,1-Trichloroethane	5.138	97	100717	4.64	ppb	#	99
33) Cyclohexane	5.222	56	98114	4.91	ppb		95
34) 1,1-Dichloropropylene	5.283	75	106764	4.78	ppb		79
36) Carbon Tetrachloride	5.289	117	68528	4.37	ppb		100
37) tert-Amyl alcohol (TAA)	5.460	59	64925	48.04	ppb	#	97
38) 1,2-Dichloroethane	5.511	62	105533	4.88	ppb		100
39) Benzene	5.466	78	314589	4.96	ppb	#	1
40) tert-Amyl methyl ether...	5.585	73	213363	5.33	ppb	#	100
42) Trichloroethylene	6.090	95	78146	4.93	ppb		89
43) Methyl Cyclohexane	6.325	83	141240	4.71	ppb		93
44) Methyl Methacrylate	6.370	69	59074	4.78	ppb	#	99
45) Dibromomethane	6.415	93	44773	4.90	ppb		98
46) Bromodichloromethane	6.582	83	80108	4.68	ppb		98
47) 1,2-Dichloropropane	6.334	63	68543	5.11	ppb		97
48) 1,4-Dioxane	6.399	88	23201	99.30	ppb	#	100
49) 2-Nitropropane	6.775	43	18550	7.21	ppb		100
50) 2-Chloroethyl vinyl ether	6.845	63	35770	4.79	ppb		100

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406457.D
Acq On : 22 Dec 2019 4:10 pm
Operator : SS
Sample : SEQ-CAL1
Misc : QBV5122219A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 10:52:20 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

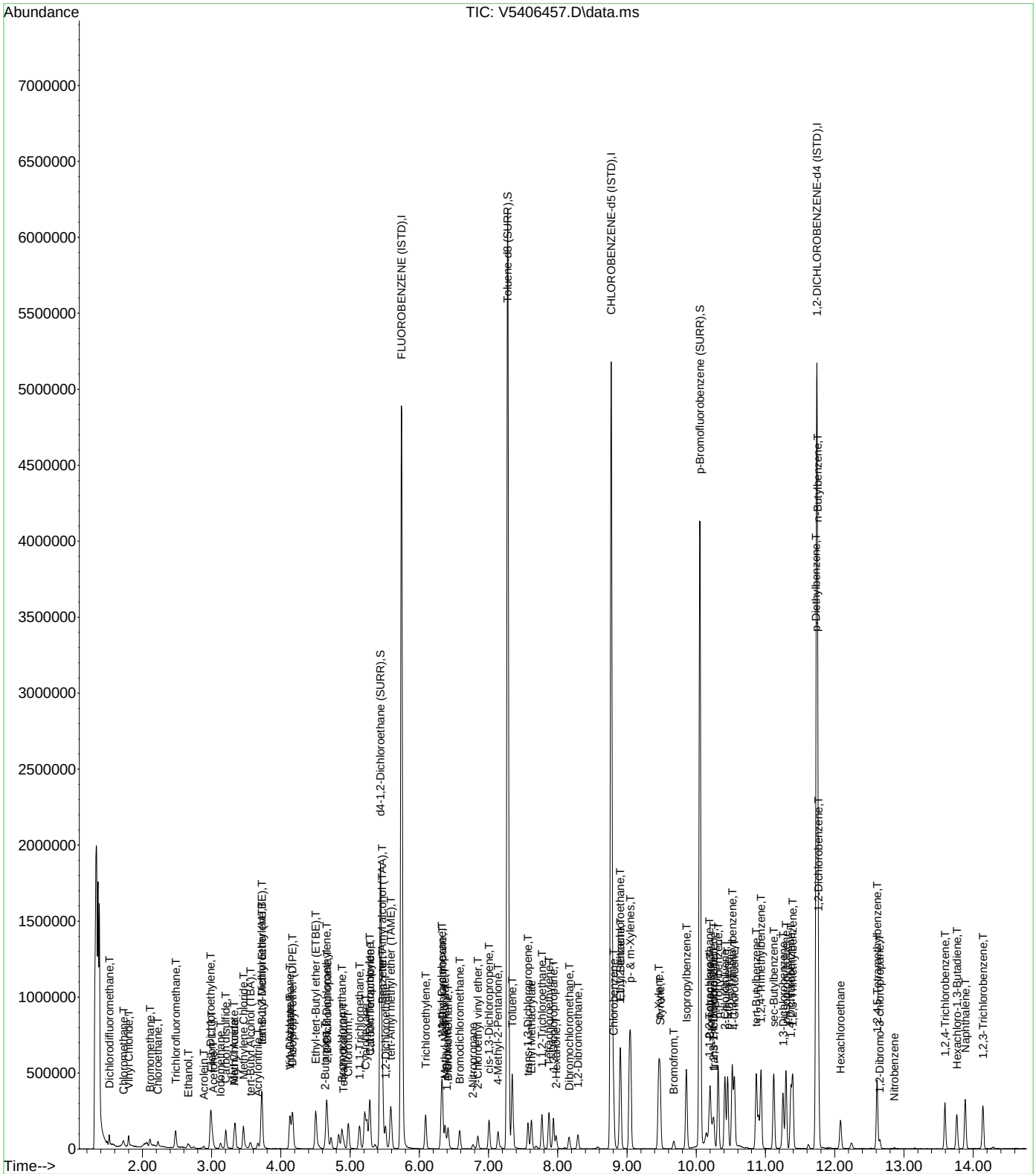
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) cis-1,3-Dichloropropene	7.006	75	108338	4.69	ppb		97
52) 4-Methyl-2-Pentanone	7.135	43	67391	4.92	ppb	#	87
54) Toluene	7.344	91	350451	5.10	ppb		100
55) trans-1,3-Dichloropropene	7.569	75	93047	6.72	ppb	#	99
56) Ethyl Methacrylate	7.617	69	103301	4.79	ppb		86
57) 1,1,2-Trichloroethane	7.771	97	70026	5.04	ppb		97
58) 1,3-Dichloropropane	7.939	76	126741	5.16	ppb	#	100
59) Tetrachloroethylene	7.871	166	67631	4.76	ppb	#	78
60) 2-Hexanone	7.977	43	49130	4.70	ppb		82
61) Dibromochloromethane	8.167	129	40351	7.92	ppb	#	95
62) 1,2-Dibromoethane	8.289	107	67009	4.96	ppb		95
63) Chlorobenzene	8.807	112	205878	4.94	ppb	#	71
64) 1,1,1,2-tetrachloroethane	8.900	131	51448	4.66	ppb	#	73
65) Ethyl Benzene	8.903	91	390749	5.05	ppb		99
66) p- & m-Xylenes	9.045	91	628995	10.22	ppb		98
67) o-Xylene	9.456	91	317648	5.03	ppb		99
68) Styrene	9.479	104	229247	4.80	ppb		98
69) Bromofrom	9.675	173	22367	9.07	ppb	#	77
71) p-Ethyltoluene	10.453	105	319180	4.79	ppb	#	99
72) Isopropylbenzene	9.858	105	372739	5.02	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.186	83	101259	5.41	ppb	#	49
75) Bromobenzene	10.202	77	160738	5.18	ppb		95
76) trans-1,4-Dichloro-2-b...	10.250	75	120596	5.06	ppb	#	91
77) 1,2,3-Trichloropropane	10.250	110	30897	5.19	ppb		96
78) n-Propylbenzene	10.318	91	466148	5.20	ppb		97
79) 2-Chlorotoluene	10.414	91	323542	5.56	ppb		97
80) 4-Chlorotoluene	10.549	91	336376	5.16	ppb		98
81) 1,3,5-Trimethylbenzene	10.521	105	317582	5.10	ppb		94
82) tert-Butylbenzene	10.868	119	277414	5.01	ppb		91
83) 1,2,4-Trimethylbenzene	10.935	105	316329	5.10	ppb		95
84) sec-Butylbenzene	11.119	105	375278	5.10	ppb		97
85) 1,3-Dichlorobenzene	11.254	146	143554	5.04	ppb		94
86) p-Isopropyltoluene	11.295	119	312401	5.01	ppb		96
87) 1,4-Dichlorobenzene	11.369	146	147308	5.07	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	301806	4.92	ppb		96
89) p-Diethylbenzene	11.729	105	161115	4.80	ppb	#	14
90) 1,2-Dichlorobenzene	11.765	146	138033	5.11	ppb	#	99
91) n-Butylbenzene	11.752	91	345274m	5.50	ppb		
92) Hexachloroethane	12.083	117	28695	9.65	ppb		99
93) 1,2-Dibromo-3-chloropr...	12.649	75	16168	9.44	ppb	#	100
94) Nitrobenzene	12.861	77	2983	8.51	ppb	#	83
95) 1,2,4,5-Tetramethylben...	12.614	119	252614	4.49	ppb		95
96) 1,2,4-Trichlorobenzene	13.594	180	91277	4.99	ppb		97
97) Hexachloro-1,3-Butadiene	13.768	225	43267	4.83	ppb		98
98) Naphthalene	13.887	128	252321	4.75	ppb		99
99) 1,2,3-Trichlorobenzene	14.141	180	84800	4.88	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406457.D
Acq On : 22 Dec 2019 4:10 pm
Operator : SS
Sample : SEQ-CAL1
Misc : QBV5122219A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 10:52:20 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406458.D
Acq On : 22 Dec 2019 4:35 pm
Operator : SS
Sample : SEQ-CAL2
Misc : QBV5122219A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 10:53:46 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.746	70	870607	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2877345	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	1220416	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.440	65	1282392	50.53	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.06%				
53) Toluene-d8 (SURR)	7.276	98	4220487	50.43	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.86%				
73) p-Bromofluorobenzene (...	10.051	95	1672810	51.34	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.68%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	143259	11.60	ppb	#	68
3) Chloromethane	1.723	50	106996	10.12	ppb		98
4) Vinyl Chloride	1.804	62	121147	9.43	ppb		97
5) Bromomethane	2.106	94	80919	8.75	ppb		78
6) Chloroethane	2.228	64	71790	9.18	ppb		97
7) Trichlorofluoromethane	2.479	101	169921	9.30	ppb		99
8) Ethanol	2.659	45	81908	471.39	ppb		100
9) Freon-113	2.997	101	121826	9.00	ppb		97
10) 1,1-Dichloroethylene	2.987	61	188875	9.74	ppb		95
11) Acrolein	2.891	56	20683	8.47	ppb	#	100
12) Acetone	3.022	43	57598	10.36	ppb		99
13) Iodomethane	3.128	142	104709	8.48	ppb		97
14) Allyl Chloride	3.328	43	99465	9.33	ppb	#	90
15) Methyl Acetate	3.328	43	99465	9.33	ppb		98
16) Carbon disulfide	3.206	76	326465	11.97	ppb		100
17) tert-Butyl Alcohol (TBA)	3.559	59	86056	46.67	ppb		97
18) Methylene Chloride	3.460	49	141761	9.71	ppb		86
19) Acrylonitrile	3.669	53	52289	9.76	ppb	#	89
20) trans-1,2-Dichloroethy...	3.727	61	187150	9.79	ppb		97
21) tert-Butyl Methyl Ethe...	3.723	73	419724	10.07	ppb	#	100
22) 1,1-Dichloroethane	4.135	63	244493	9.89	ppb	#	100
23) Vinyl Acetate	4.132	43	208089	9.79	ppb		99
24) Diisopropyl ether (DIPE)	4.170	45	350454	10.28	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.508	59	400142	10.16	ppb	#	80
26) cis-1,2-Dichloroethylene	4.659	61	218064	9.77	ppb		96
27) 2-Butanone	4.646	72	24440	9.89	ppb		83
28) 2,2-Dichloropropane	4.669	77	193231	9.58	ppb		98
29) Tetrahydrofuran	4.907	42	42374	9.69	ppb		83
30) Bromochloromethane	4.878	49	97350	10.16	ppb		98
31) Chloroform	4.977	83	263865	9.90	ppb		99
32) 1,1,1-Trichloroethane	5.135	97	204270	9.50	ppb	#	99
33) Cyclohexane	5.218	56	208054m	10.52	ppb		
34) 1,1-Dichloropropylene	5.286	75	212882	9.63	ppb		82
36) Carbon Tetrachloride	5.289	117	146717	9.44	ppb		99
37) tert-Amyl alcohol (TAA)	5.463	59	130242	97.35	ppb	#	97
38) 1,2-Dichloroethane	5.511	62	211203	9.86	ppb		100
39) Benzene	5.466	78	627288	9.99	ppb	#	45
40) tert-Amyl methyl ether...	5.588	73	407476	10.29	ppb	#	100
42) Trichloroethylene	6.090	95	156255	9.91	ppb		89
43) Methyl Cyclohexane	6.324	83	278400	9.33	ppb		93
44) Methyl Methacrylate	6.376	69	121524	9.87	ppb	#	81
45) Dibromomethane	6.418	93	91913	10.11	ppb		98
46) Bromodichloromethane	6.585	83	169804	9.96	ppb		98
47) 1,2-Dichloropropane	6.337	63	136659	10.23	ppb	#	86
48) 1,4-Dioxane	6.398	88	44722	192.25	ppb	#	100
49) 2-Nitropropane	6.775	43	39516	10.81	ppb		100
50) 2-Chloroethyl vinyl ether	6.845	63	71207	9.57	ppb		99

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406458.D
Acq On : 22 Dec 2019 4:35 pm
Operator : SS
Sample : SEQ-CAL2
Misc : QBV5122219A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 10:53:46 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

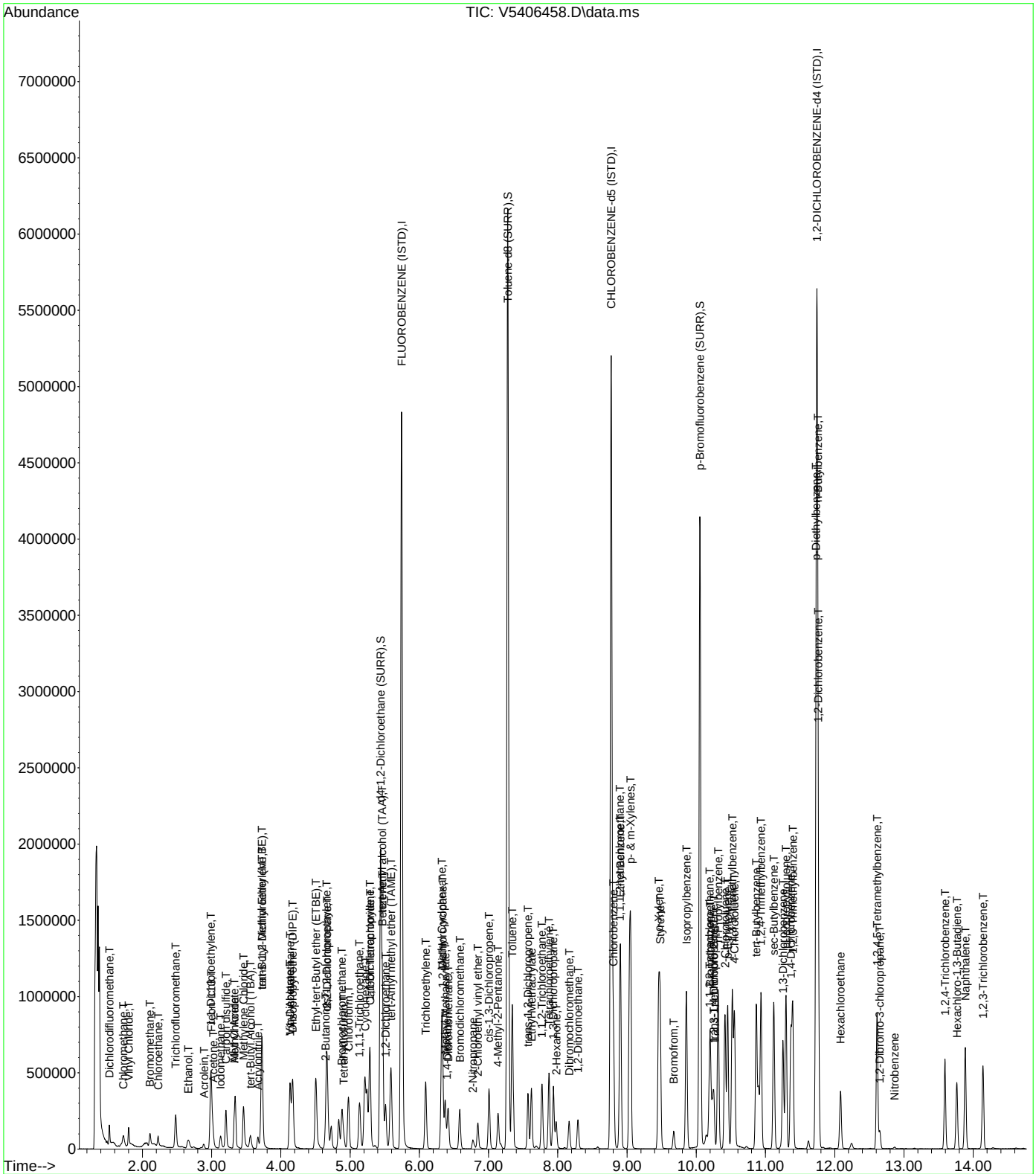
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) cis-1,3-Dichloropropene	7.006	75	229222	9.96	ppb		95
52) 4-Methyl-2-Pentanone	7.135	43	138296	10.14	ppb	#	85
54) Toluene	7.344	91	694312	10.15	ppb		100
55) trans-1,3-Dichloropropene	7.569	75	200411	11.17	ppb	#	91
56) Ethyl Methacrylate	7.620	69	215563	10.05	ppb		86
57) 1,1,2-Trichloroethane	7.768	97	142613	10.31	ppb		97
58) 1,3-Dichloropropane	7.935	76	252888	10.34	ppb	#	100
59) Tetrachloroethylene	7.871	166	141080	9.96	ppb	#	78
60) 2-Hexanone	7.980	43	100071	9.61	ppb		85
61) Dibromochloromethane	8.167	129	89082	11.93	ppb		98
62) 1,2-Dibromoethane	8.289	107	134085	9.96	ppb		99
63) Chlorobenzene	8.803	112	411611	9.93	ppb		90
64) 1,1,1,2-tetrachloroethane	8.897	131	107513	9.79	ppb	#	74
65) Ethyl Benzene	8.903	91	774552	10.06	ppb		98
66) p- & m-Xylenes	9.048	91	1246016	20.34	ppb		98
67) o-Xylene	9.456	91	635055	10.10	ppb		99
68) Styrene	9.479	104	464456	9.77	ppb		98
69) Bromofrom	9.675	173	50536	12.62	ppb	#	100
71) p-Ethyltoluene	10.453	105	638398	9.54	ppb	#	88
72) Isopropylbenzene	9.858	105	743292	9.99	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.189	83	195609	10.42	ppb		97
75) Bromobenzene	10.202	77	318709	10.24	ppb		94
76) trans-1,4-Dichloro-2-b...	10.254	75	241436	10.10	ppb		93
77) 1,2,3-Trichloropropane	10.254	110	61218	10.24	ppb	#	1
78) n-Propylbenzene	10.318	91	916669	10.19	ppb		97
79) 2-Chlorotoluene	10.418	91	574666	9.84	ppb		98
80) 4-Chlorotoluene	10.549	91	654458	10.00	ppb		98
81) 1,3,5-Trimethylbenzene	10.520	105	616080	9.86	ppb		94
82) tert-Butylbenzene	10.868	119	538915	9.69	ppb		91
83) 1,2,4-Trimethylbenzene	10.935	105	616926	9.90	ppb		96
84) sec-Butylbenzene	11.118	105	738487	10.00	ppb		97
85) 1,3-Dichlorobenzene	11.250	146	279044	9.76	ppb		95
86) p-Isopropyltoluene	11.295	119	612579	9.79	ppb		96
87) 1,4-Dichlorobenzene	11.369	146	285850	9.81	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	589545	9.58	ppb		96
89) p-Diethylbenzene	11.729	105	319089	9.48	ppb		87
90) 1,2-Dichlorobenzene	11.762	146	265473	9.79	ppb	#	100
91) n-Butylbenzene	11.755	91	661455m	10.50	ppb		
92) Hexachloroethane	12.083	117	58698	12.96	ppb		99
93) 1,2-Dibromo-3-chloropr...	12.649	75	34441	13.16	ppb	#	100
94) Nitrobenzene	12.864	77	5932	12.18	ppb		96
95) 1,2,4,5-Tetramethylben...	12.614	119	512889	9.09	ppb		97
96) 1,2,4-Trichlorobenzene	13.594	180	175722	9.58	ppb		97
97) Hexachloro-1,3-Butadiene	13.768	225	85289	9.50	ppb		98
98) Naphthalene	13.887	128	510870	9.58	ppb		99
99) 1,2,3-Trichlorobenzene	14.141	180	168339	9.66	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406458.D
Acq On : 22 Dec 2019 4:35 pm
Operator : SS
Sample : SEQ-CAL2
Misc : QBV5122219A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 10:53:46 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406459.D
Acq On : 22 Dec 2019 5:00 pm
Operator : SS
Sample : SEQ-CAL3
Misc : QBV5122219A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 10:55:09 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	883224	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2936011	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	1241633	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.437	65	1297936	50.42	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.84%				
53) Toluene-d8 (SURR)	7.273	98	4302516	50.38	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.76%				
73) p-Bromofluorobenzene (...	10.051	95	1715362	51.74	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.48%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	263162	21.00	ppb	#	67
3) Chloromethane	1.730	50	196023m	18.28	ppb		
4) Vinyl Chloride	1.801	62	222621	17.08	ppb		97
5) Bromomethane	2.103	94	139446	15.86	ppb		76
6) Chloroethane	2.225	64	125241	15.79	ppb		97
7) Trichlorofluoromethane	2.479	101	305518	16.48	ppb		100
8) Ethanol	2.659	45	154418	876.00	ppb		100
9) Freon-113	3.000	101	234213	17.05	ppb		96
10) 1,1-Dichloroethylene	2.987	61	345284	17.55	ppb		92
11) Acrolein	2.891	56	40141	16.20	ppb	#	100
12) Acetone	3.019	43	95359	16.91	ppb		99
13) Iodomethane	3.129	142	207650	16.57	ppb		99
14) Allyl Chloride	3.325	43	190787	17.64	ppb	#	86
15) Methyl Acetate	3.325	43	190787	17.64	ppb		98
16) Carbon disulfide	3.203	76	641748	19.63	ppb		100
17) tert-Butyl Alcohol (TBA)	3.563	59	167733	89.66	ppb		97
18) Methylene Chloride	3.460	49	261517	17.66	ppb		85
19) Acrylonitrile	3.666	53	97921	18.02	ppb		99
20) trans-1,2-Dichloroethy...	3.727	61	347519	17.92	ppb		97
21) tert-Butyl Methyl Ethe...	3.720	73	797303	18.86	ppb	#	100
22) 1,1-Dichloroethane	4.132	63	457182	18.23	ppb	#	100
23) Vinyl Acetate	4.129	43	429240	19.90	ppb		99
24) Diisopropyl ether (DIPE)	4.170	45	660323	19.09	ppb		96
25) Ethyl-tert-Butyl ether...	4.508	59	746458	18.69	ppb	#	98
26) cis-1,2-Dichloroethylene	4.659	61	413479	18.26	ppb		96
27) 2-Butanone	4.640	72	42225	16.84	ppb		85
28) 2,2-Dichloropropane	4.669	77	372576	18.21	ppb		99
29) Tetrahydrofuran	4.900	42	77928	17.56	ppb		82
30) Bromochloromethane	4.881	49	188014	19.34	ppb		100
31) Chloroform	4.971	83	495994	18.34	ppb		99
32) 1,1,1-Trichloroethane	5.135	97	396030	18.15	ppb	#	68
33) Cyclohexane	5.219	56	333808	16.63	ppb		90
34) 1,1-Dichloropropylene	5.283	75	401290	17.89	ppb		85
36) Carbon Tetrachloride	5.286	117	288067	18.28	ppb		100
37) tert-Amyl alcohol (TAA)	5.463	59	243845	179.65	ppb	#	66
38) 1,2-Dichloroethane	5.511	62	397495m	18.30	ppb		
39) Benzene	5.466	78	1158945	18.20	ppb	#	69
40) tert-Amyl methyl ether...	5.585	73	781032	19.44	ppb	#	100
42) Trichloroethylene	6.090	95	292971	18.20	ppb		90
43) Methyl Cyclohexane	6.325	83	531895	17.46	ppb		93
44) Methyl Methacrylate	6.373	69	230648	18.36	ppb	#	99
45) Dibromomethane	6.415	93	174551	18.82	ppb		98
46) Bromodichloromethane	6.582	83	336987	19.38	ppb		98
47) 1,2-Dichloropropane	6.334	63	260528	19.11	ppb		97
48) 1,4-Dioxane	6.399	88	87040	366.69	ppb	#	100
49) 2-Nitropropane	6.775	43	84820	18.26	ppb		96
50) 2-Chloroethyl vinyl ether	6.845	63	139850	18.43	ppb		99

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406459.D
Acq On : 22 Dec 2019 5:00 pm
Operator : SS
Sample : SEQ-CAL3
Misc : QBV5122219A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 10:55:09 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

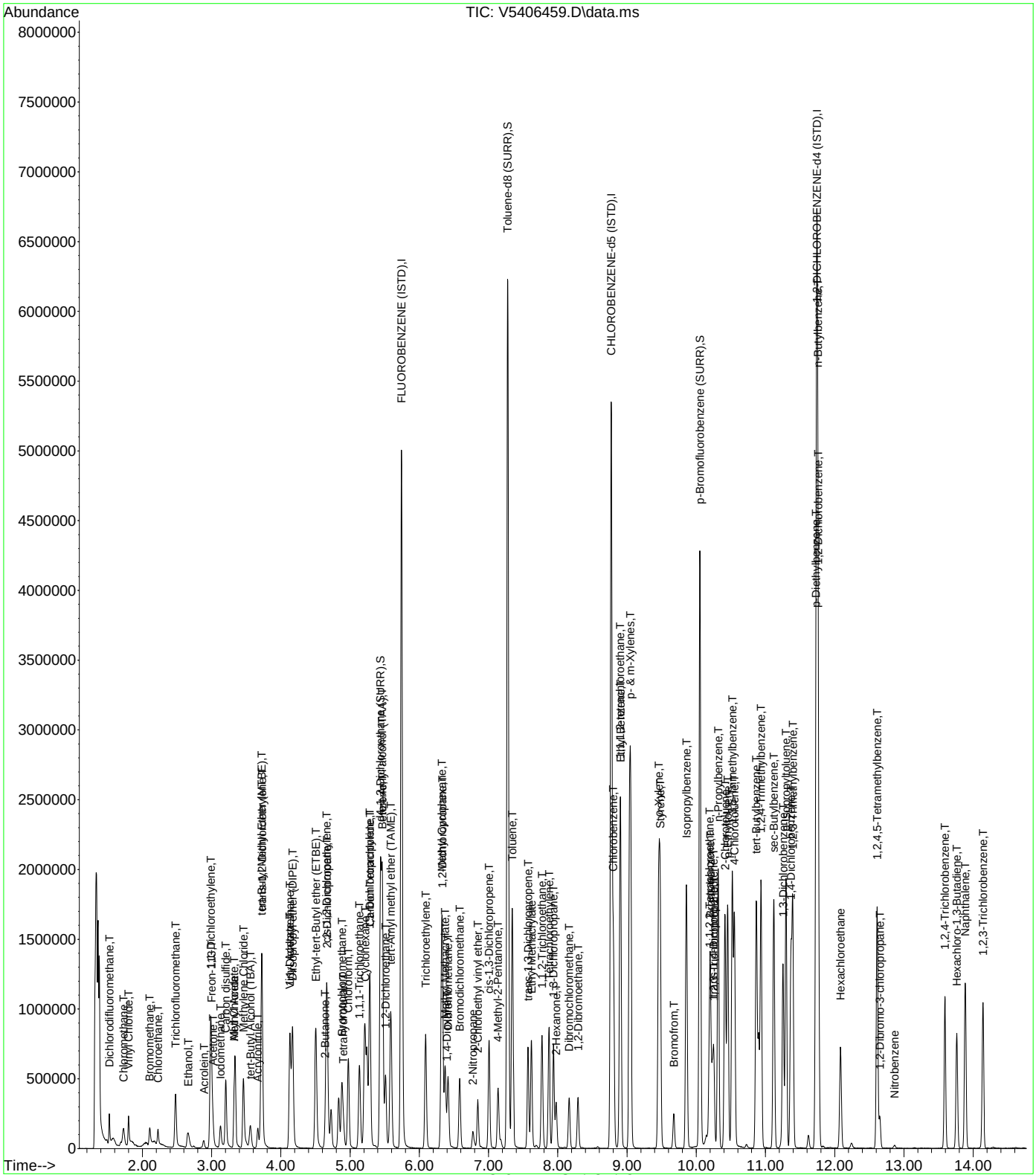
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) cis-1,3-Dichloropropene	7.006	75	448545	19.11	ppb		96
52) 4-Methyl-2-Pentanone	7.135	43	262473	18.86	ppb	#	86
54) Toluene	7.344	91	1287797	18.45	ppb		100
55) trans-1,3-Dichloropropene	7.572	75	400896	19.12	ppb	#	100
56) Ethyl Methacrylate	7.620	69	418263	19.11	ppb		86
57) 1,1,2-Trichloroethane	7.771	97	266102	18.85	ppb		98
58) 1,3-Dichloropropane	7.939	76	471786	18.91	ppb	#	100
59) Tetrachloroethylene	7.874	166	251585	17.41	ppb	#	99
60) 2-Hexanone	7.977	43	192766	18.14	ppb		87
61) Dibromochloromethane	8.164	129	186211	19.58	ppb		99
62) 1,2-Dibromoethane	8.292	107	254873	18.56	ppb		97
63) Chlorobenzene	8.800	112	759416	17.95	ppb		92
64) 1,1,1,2-tetrachloroethane	8.900	131	209733	18.71	ppb		97
65) Ethyl Benzene	8.906	91	1450732	18.47	ppb		98
66) p- & m-Xylenes	9.045	91	2341662	37.47	ppb		98
67) o-Xylene	9.456	91	1189501	18.55	ppb		99
68) Styrene	9.479	104	889535	18.34	ppb		99
69) Bromofrom	9.678	173	108716	19.63	ppb	#	99
71) p-Ethyltoluene	10.453	105	1229929	18.07	ppb	#	88
72) Isopropylbenzene	9.858	105	1407579	18.59	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.189	83	368559	19.30	ppb		97
75) Bromobenzene	10.205	77	602699	19.04	ppb		94
76) trans-1,4-Dichloro-2-b...	10.251	75	466725	19.20	ppb		95
77) 1,2,3-Trichloropropane	10.254	110	113480	18.66	ppb		93
78) n-Propylbenzene	10.318	91	1720253	18.80	ppb		97
79) 2-Chlorotoluene	10.418	91	1075077	18.09	ppb		98
80) 4-Chlorotoluene	10.550	91	1228036	18.44	ppb		98
81) 1,3,5-Trimethylbenzene	10.521	105	1174295	18.48	ppb		95
82) tert-Butylbenzene	10.868	119	1039212	18.37	ppb		92
83) 1,2,4-Trimethylbenzene	10.935	105	1168002	18.43	ppb		96
84) sec-Butylbenzene	11.119	105	1398883	18.62	ppb		97
85) 1,3-Dichlorobenzene	11.254	146	523880	18.01	ppb		95
86) p-Isopropyltoluene	11.295	119	1167123	18.33	ppb		96
87) 1,4-Dichlorobenzene	11.369	146	538006	18.14	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	1085645	17.35	ppb		96
89) p-Diethylbenzene	11.726	105	620164	18.11	ppb		91
90) 1,2-Dichlorobenzene	11.762	146	493765	17.90	ppb	#	100
91) n-Butylbenzene	11.755	91	1197674m	18.68	ppb		
92) Hexachloroethane	12.083	117	125926	20.17	ppb		99
93) 1,2-Dibromo-3-chloropr...	12.652	75	74642	21.12	ppb	#	100
94) Nitrobenzene	12.865	77	11992	19.15	ppb		90
95) 1,2,4,5-Tetramethylben...	12.614	119	1012043	17.62	ppb		97
96) 1,2,4-Trichlorobenzene	13.591	180	339978	18.22	ppb		98
97) Hexachloro-1,3-Butadiene	13.765	225	160865	17.60	ppb		99
98) Naphthalene	13.884	128	968825	17.86	ppb		100
99) 1,2,3-Trichlorobenzene	14.141	180	317765	17.92	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406459.D
Acq On : 22 Dec 2019 5:00 pm
Operator : SS
Sample : SEQ-CAL3
Misc : QBV5122219A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 10:55:09 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406460.D
Acq On : 22 Dec 2019 5:26 pm
Operator : SS
Sample : SEQ-CAL4
Misc : QBV5122219A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 11:01:20 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.746	70	880862	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2919961	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	1227089	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.440	65	1300165	50.64	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.28%				
53) Toluene-d8 (SURR)	7.276	98	4285160	50.45	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.90%				
73) p-Bromofluorobenzene (...	10.051	95	1702818	51.97	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	639532	51.17	ppb	#	69
3) Chloromethane	1.727	50	487867m	45.61	ppb		
4) Vinyl Chloride	1.804	62	565429	43.49	ppb		100
5) Bromomethane	2.109	94	350361	42.12	ppb		78
6) Chloroethane	2.228	64	331939	41.95	ppb		98
7) Trichlorofluoromethane	2.482	101	797305	43.13	ppb		99
8) Ethanol	2.659	45	401783	2285.38	ppb		100
9) Freon-113	2.997	101	589972	43.06	ppb		96
10) 1,1-Dichloroethylene	2.987	61	879346	44.81	ppb		94
11) Acrolein	2.887	56	100342	40.60	ppb	#	100
12) Acetone	3.022	43	229844	40.86	ppb		99
13) Iodomethane	3.132	142	563001	45.04	ppb		99
14) Allyl Chloride	3.328	43	501536	46.49	ppb		89
15) Methyl Acetate	3.328	43	501536	46.49	ppb		98
16) Carbon disulfide	3.206	76	1732296	46.62	ppb		100
17) tert-Butyl Alcohol (TBA)	3.559	59	461971	247.61	ppb		98
18) Methylene Chloride	3.463	49	647863	43.87	ppb		86
19) Acrylonitrile	3.666	53	259210	47.82	ppb	#	65
20) trans-1,2-Dichloroethy...	3.730	61	860602	44.49	ppb		97
21) tert-Butyl Methyl Ethe...	3.723	73	2027985	48.11	ppb	#	100
22) 1,1-Dichloroethane	4.135	63	1150548	46.01	ppb	#	96
23) Vinyl Acetate	4.132	43	1067214	49.62	ppb		99
24) Diisopropyl ether (DIPE)	4.170	45	1645824	47.70	ppb		97
25) Ethyl-tert-Butyl ether...	4.508	59	1887349	47.38	ppb	#	80
26) cis-1,2-Dichloroethylene	4.662	61	1031347	45.68	ppb		96
27) 2-Butanone	4.640	72	111229	44.47	ppb		82
28) 2,2-Dichloropropane	4.672	77	976892	47.88	ppb	#	77
29) Tetrahydrofuran	4.903	42	206963	46.76	ppb		81
30) Bromochloromethane	4.881	49	466612	48.12	ppb		99
31) Chloroform	4.974	83	1238718	45.92	ppb	#	94
32) 1,1,1-Trichloroethane	5.138	97	1016561	46.71	ppb	#	99
33) Cyclohexane	5.218	56	947808	47.36	ppb		97
34) 1,1-Dichloropropylene	5.286	75	990238	44.26	ppb		89
36) Carbon Tetrachloride	5.289	117	755248	48.04	ppb		99
37) tert-Amyl alcohol (TAA)	5.463	59	690738	510.26	ppb	#	96
38) 1,2-Dichloroethane	5.511	62	996786	46.02	ppb		100
39) Benzene	5.469	78	2848091	44.84	ppb	#	99
40) tert-Amyl methyl ether...	5.588	73	1991637	49.71	ppb	#	100
42) Trichloroethylene	6.093	95	728336	45.50	ppb		90
43) Methyl Cyclohexane	6.328	83	1336975	44.13	ppb		92
44) Methyl Methacrylate	6.373	69	620115	49.64	ppb	#	99
45) Dibromomethane	6.418	93	444861	48.23	ppb		98
46) Bromodichloromethane	6.582	83	903187	52.22	ppb		98
47) 1,2-Dichloropropane	6.337	63	652155	48.09	ppb		98
48) 1,4-Dioxane	6.405	88	218744	926.60	ppb	#	100
49) 2-Nitropropane	6.778	43	252586	46.57	ppb		97
50) 2-Chloroethyl vinyl ether	6.849	63	376513	49.88	ppb		99

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406460.D
Acq On : 22 Dec 2019 5:26 pm
Operator : SS
Sample : SEQ-CAL4
Misc : QBV5122219A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 11:01:20 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

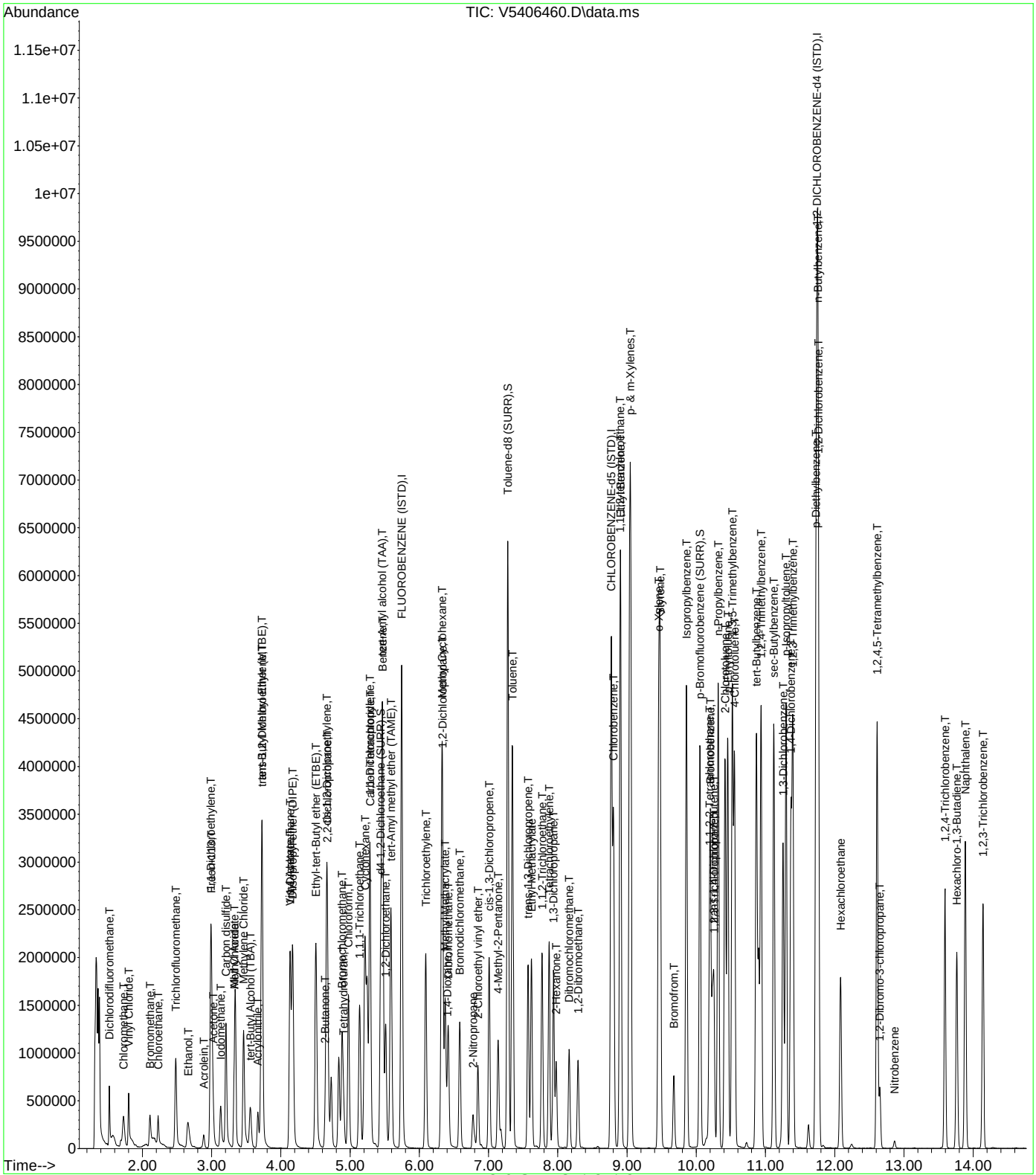
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) cis-1,3-Dichloropropene	7.009	75	1186187	50.80	ppb		96
52) 4-Methyl-2-Pentanone	7.138	43	682494	49.32	ppb		90
54) Toluene	7.347	91	3166002	45.61	ppb		100
55) trans-1,3-Dichloropropene	7.572	75	1102516	47.75	ppb	#	100
56) Ethyl Methacrylate	7.620	69	1098791	50.47	ppb		86
57) 1,1,2-Trichloroethane	7.775	97	676597	48.19	ppb		98
58) 1,3-Dichloropropane	7.939	76	1193260	48.08	ppb	#	100
59) Tetrachloroethylene	7.874	166	614903	42.80	ppb	#	99
60) 2-Hexanone	7.977	43	508351	48.10	ppb		91
61) Dibromochloromethane	8.164	129	525425	47.06	ppb		98
62) 1,2-Dibromoethane	8.292	107	652613	47.78	ppb		97
63) Chlorobenzene	8.804	112	1882774	44.75	ppb		96
64) 1,1,1,2-tetrachloroethane	8.900	131	546238	49.01	ppb		97
65) Ethyl Benzene	8.906	91	3568211	45.68	ppb		98
66) p- & m-Xylenes	9.045	91	5758255	92.64	ppb		98
67) o-Xylene	9.456	91	2934651	46.01	ppb		99
68) Styrene	9.479	104	2237385	46.37	ppb		99
69) Bromofrom	9.678	173	332713	47.37	ppb	#	100
71) p-Ethyltoluene	10.456	105	3036758	45.16	ppb	#	99
72) Isopropylbenzene	9.858	105	3461790	46.26	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.189	83	940201	49.82	ppb		97
75) Bromobenzene	10.205	77	1492188	47.69	ppb		94
76) trans-1,4-Dichloro-2-b...	10.254	75	1230273	51.20	ppb		97
77) 1,2,3-Trichloropropane	10.257	110	288216	47.97	ppb		97
78) n-Propylbenzene	10.318	91	4241378	46.90	ppb		97
79) 2-Chlorotoluene	10.418	91	2637805	44.92	ppb		98
80) 4-Chlorotoluene	10.553	91	3011935	45.76	ppb		98
81) 1,3,5-Trimethylbenzene	10.521	105	2875340	45.79	ppb		95
82) tert-Butylbenzene	10.871	119	2567136	45.91	ppb		92
83) 1,2,4-Trimethylbenzene	10.939	105	2872664	45.87	ppb		96
84) sec-Butylbenzene	11.119	105	3428495	46.16	ppb		97
85) 1,3-Dichlorobenzene	11.254	146	1290659	44.88	ppb		95
86) p-Isopropyltoluene	11.295	119	2859300	45.43	ppb		97
87) 1,4-Dichlorobenzene	11.369	146	1314116	44.84	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	2817007	45.55	ppb		96
89) p-Diethylbenzene	11.726	105	1531362	45.25	ppb		94
90) 1,2-Dichlorobenzene	11.765	146	1221809	44.83	ppb	#	100
91) n-Butylbenzene	11.755	91	2893908m	45.68	ppb		
92) Hexachloroethane	12.086	117	366414	46.84	ppb		99
93) 1,2-Dibromo-3-chloropr...	12.649	75	193243	45.43	ppb	#	100
94) Nitrobenzene	12.865	77	41351	49.13	ppb		93
95) 1,2,4,5-Tetramethylben...	12.614	119	2568882	45.26	ppb		96
96) 1,2,4-Trichlorobenzene	13.594	180	829527	44.99	ppb		98
97) Hexachloro-1,3-Butadiene	13.765	225	399367	44.22	ppb		98
98) Naphthalene	13.887	128	2524857	47.09	ppb		100
99) 1,2,3-Trichlorobenzene	14.141	180	797502	45.51	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406460.D
Acq On : 22 Dec 2019 5:26 pm
Operator : SS
Sample : SEQ-CAL4
Misc : QBV5122219A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 11:01:20 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406461.D
Acq On : 22 Dec 2019 5:51 pm
Operator : SS
Sample : SEQ-CAL5
Misc : QBV5122219A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 30 11:02:41 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.746	70	907328	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2989660	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	1234374	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.440	65	1327599	50.20	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.40%				
53) Toluene-d8 (SURR)	7.276	98	4416002	50.78	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.56%				
73) p-Bromofluorobenzene (...	10.051	95	1727358	52.41	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	1384975	107.58	ppb	#	67
3) Chloromethane	1.727	50	1038617m	94.27	ppb		
4) Vinyl Chloride	1.801	62	1199537	89.58	ppb		96
5) Bromomethane	2.106	94	748834	88.93	ppb		74
6) Chloroethane	2.225	64	700075	85.90	ppb		98
7) Trichlorofluoromethane	2.479	101	1687485	88.61	ppb		99
8) Ethanol	2.656	45	857102	4733.07	ppb		100
9) Freon-113	3.000	101	1297200	91.91	ppb	#	75
10) 1,1-Dichloroethylene	2.987	61	1916519	94.81	ppb		93
11) Acrolein	2.884	56	214781	84.36	ppb	#	100
12) Acetone	3.022	43	572749	98.84	ppb		99
13) Iodomethane	3.128	142	1241948	96.47	ppb		99
14) Allyl Chloride	3.328	43	1057269	95.14	ppb	#	80
15) Methyl Acetate	3.328	43	1057269	95.14	ppb		98
16) Carbon disulfide	3.206	76	3975782	99.20	ppb		100
17) tert-Butyl Alcohol (TBA)	3.559	59	807654	420.27	ppb		99
18) Methylene Chloride	3.460	49	1400885	92.09	ppb		85
19) Acrylonitrile	3.665	53	548499	98.23	ppb		99
20) trans-1,2-Dichloroethy...	3.727	61	1881335	94.41	ppb		97
21) tert-Butyl Methyl Ethe...	3.720	73	4450618	102.49	ppb	#	100
22) 1,1-Dichloroethane	4.135	63	2525068	98.03	ppb	#	100
23) Vinyl Acetate	4.132	43	2362912	106.65	ppb		99
24) Diisopropyl ether (DIPE)	4.170	45	3635463	102.29	ppb		97
25) Ethyl-tert-Butyl ether...	4.505	59	4196552	102.28	ppb	#	98
26) cis-1,2-Dichloroethylene	4.662	61	2265236	97.40	ppb		96
27) 2-Butanone	4.643	72	247796	96.17	ppb		81
28) 2,2-Dichloropropane	4.672	77	2235461	106.38	ppb		98
29) Tetrahydrofuran	4.903	42	430985	94.53	ppb		80
30) Bromochloromethane	4.881	49	976418	97.77	ppb		96
31) Chloroform	4.974	83	2746457	98.85	ppb	#	94
32) 1,1,1-Trichloroethane	5.138	97	2314571	103.25	ppb	#	99
33) Cyclohexane	5.215	56	1886299	91.50	ppb		92
34) 1,1-Dichloropropylene	5.286	75	2170946	94.21	ppb		91
36) Carbon Tetrachloride	5.289	117	1732340	106.99	ppb		100
37) tert-Amyl alcohol (TAA)	5.463	59	1508053	1081.53	ppb	#	96
38) 1,2-Dichloroethane	5.514	62	2186502	97.99	ppb		100
39) Benzene	5.469	78	6203011	94.81	ppb	#	92
40) tert-Amyl methyl ether...	5.588	73	4492648	108.85	ppb	#	100
42) Trichloroethylene	6.090	95	1599477	97.58	ppb		90
43) Methyl Cyclohexane	6.325	83	2921735	94.19	ppb		92
44) Methyl Methacrylate	6.376	69	1340472	104.81	ppb	#	99
45) Dibromomethane	6.418	93	978345	103.59	ppb		98
46) Bromodichloromethane	6.585	83	2072947	117.06	ppb		98
47) 1,2-Dichloropropane	6.334	63	1415445	101.94	ppb		97
48) 1,4-Dioxane	6.405	88	493822	2043.07	ppb	#	100
49) 2-Nitropropane	6.778	43	576384	98.81	ppb		96
50) 2-Chloroethyl vinyl ether	6.849	63	803898	104.02	ppb		99

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406461.D
Acq On : 22 Dec 2019 5:51 pm
Operator : SS
Sample : SEQ-CAL5
Misc : QBV5122219A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 30 11:02:41 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

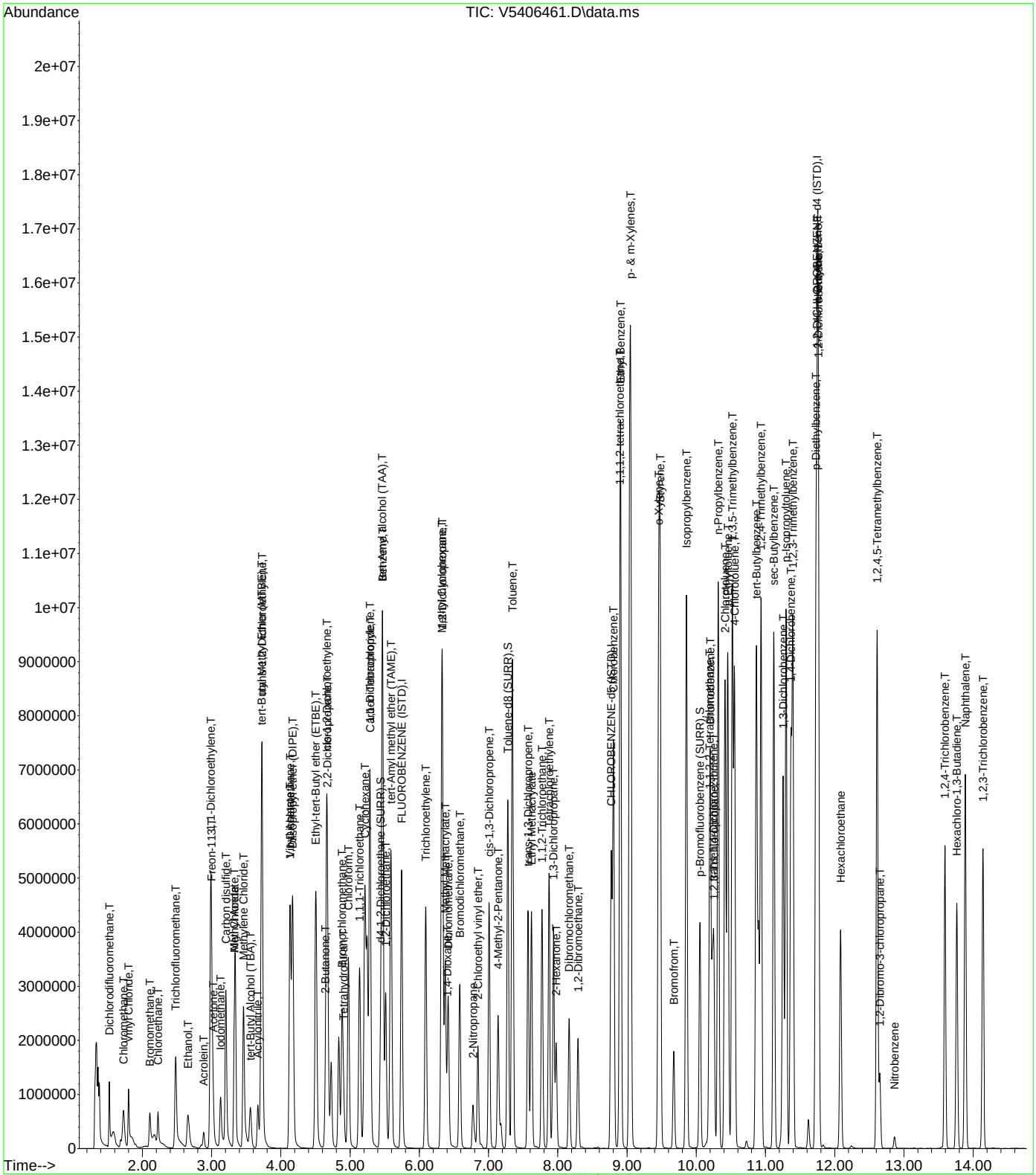
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) cis-1,3-Dichloropropene	7.009	75	2694513	112.71	ppb		95
52) 4-Methyl-2-Pentanone	7.138	43	1465573	103.44	ppb		91
54) Toluene	7.347	91	6921402	97.39	ppb		100
55) trans-1,3-Dichloropropene	7.572	75	2531917	103.51	ppb	#	100
56) Ethyl Methacrylate	7.620	69	2388886	107.16	ppb		86
57) 1,1,2-Trichloroethane	7.771	97	1473026	102.47	ppb		98
58) 1,3-Dichloropropane	7.939	76	2592418	102.02	ppb	#	100
59) Tetrachloroethylene	7.874	166	1467068	99.73	ppb	#	99
60) 2-Hexanone	7.977	43	1116398	103.16	ppb		92
61) Dibromochloromethane	8.164	129	1237783	102.25	ppb		99
62) 1,2-Dibromoethane	8.292	107	1424939	101.90	ppb		98
63) Chlorobenzene	8.804	112	4119075	95.62	ppb		96
64) 1,1,1,2-tetrachloroethane	8.897	131	1235190	108.24	ppb		97
65) Ethyl Benzene	8.906	91	7721720	96.54	ppb		99
66) p- & m-Xylenes	9.048	91	12328347	193.71	ppb		98
67) o-Xylene	9.456	91	6347048	97.19	ppb		99
68) Styrene	9.479	104	4858120	98.34	ppb		99
69) Bromofrom	9.678	173	806959	103.61	ppb	#	77
71) p-Ethyltoluene	10.456	105	6520794	96.39	ppb	#	99
72) Isopropylbenzene	9.858	105	7492802	99.53	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.189	83	1961173	103.31	ppb		98
75) Bromobenzene	10.205	77	3229803	102.62	ppb		93
76) trans-1,4-Dichloro-2-b...	10.250	75	2657270	109.94	ppb		97
77) 1,2,3-Trichloropropane	10.257	110	606170	100.29	ppb		92
78) n-Propylbenzene	10.318	91	9067762	99.67	ppb		97
79) 2-Chlorotoluene	10.418	91	5757315	97.46	ppb		98
80) 4-Chlorotoluene	10.553	91	6465983	97.66	ppb		98
81) 1,3,5-Trimethylbenzene	10.520	105	6199327	98.14	ppb		95
82) tert-Butylbenzene	10.871	119	5520165	98.13	ppb		92
83) 1,2,4-Trimethylbenzene	10.935	105	6189142	98.24	ppb		96
84) sec-Butylbenzene	11.119	105	7322402	98.01	ppb		97
85) 1,3-Dichlorobenzene	11.254	146	2773555	95.88	ppb		95
86) p-Isopropyltoluene	11.295	119	6189359	97.77	ppb		97
87) 1,4-Dichlorobenzene	11.369	146	2814748	95.47	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	6080998	97.75	ppb		96
89) p-Diethylbenzene	11.729	105	3247283	95.38	ppb		94
90) 1,2-Dichlorobenzene	11.765	146	2620648	95.58	ppb	#	100
91) n-Butylbenzene	11.755	91	6342321m	99.52	ppb		
92) Hexachloroethane	12.086	117	869402	101.70	ppb		99
93) 1,2-Dibromo-3-chloropr...	12.652	75	472536	101.68	ppb	#	100
94) Nitrobenzene	12.864	77	116942	106.21	ppb		94
95) 1,2,4,5-Tetramethylben...	12.614	119	5586598	97.85	ppb		96
96) 1,2,4-Trichlorobenzene	13.591	180	1790888	96.55	ppb		98
97) Hexachloro-1,3-Butadiene	13.765	225	882424	97.14	ppb		98
98) Naphthalene	13.887	128	5475577	101.51	ppb		100
99) 1,2,3-Trichlorobenzene	14.141	180	1730466	98.17	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406461.D
Acq On : 22 Dec 2019 5:51 pm
Operator : SS
Sample : SEQ-CAL5
Misc : QBV5122219A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 30 11:02:41 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406462.D
Acq On : 22 Dec 2019 6:16 pm
Operator : SS
Sample : SEQ-CAL6
Misc : QBV5122219A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 30 11:04:03 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.746	70	896498	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.775	117	2933569	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	1207683	50.00	ppb	#	0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.444	65	1313483	50.26	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.52%				
53) Toluene-d8 (SURR)	7.276	98	4363225	51.13	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.26%				
73) p-Bromofluorobenzene (...	10.054	95	1683943	52.22	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	2634475	207.11	ppb	#	70
3) Chloromethane	1.720	50	2005408	184.23	ppb		99
4) Vinyl Chloride	1.801	62	2350521	177.66	ppb		100
5) Bromomethane	2.106	94	1605473	194.63	ppb		78
6) Chloroethane	2.225	64	1365750	169.60	ppb		100
7) Trichlorofluoromethane	2.482	101	3250533	172.75	ppb		99
8) Ethanol	2.656	45	1663003	9294.35	ppb		100
9) Freon-113	3.000	101	2369480	169.92	ppb		97
10) 1,1-Dichloroethylene	2.987	61	3605457	180.52	ppb		94
11) Acrolein	2.887	56	428014	170.14	ppb	#	100
12) Acetone	3.022	43	1072528	187.33	ppb		99
13) Iodomethane	3.129	142	2429239	190.97	ppb		99
14) Allyl Chloride	3.328	43	2015707	183.57	ppb	#	80
15) Methyl Acetate	3.328	43	2015707	183.57	ppb		98
16) Carbon disulfide	3.206	76	7721046	191.31	ppb		100
17) tert-Butyl Alcohol (TBA)	3.559	59	1244648	655.49	ppb		99
18) Methylene Chloride	3.463	49	2656642	176.75	ppb		85
19) Acrylonitrile	3.669	53	1075494	194.94	ppb		99
20) trans-1,2-Dichloroethy...	3.727	61	3514268	178.49	ppb		97
21) tert-Butyl Methyl Ethe...	3.723	73	8484006	197.74	ppb	#	100
22) 1,1-Dichloroethane	4.135	63	4738885	186.19	ppb	#	100
23) Vinyl Acetate	4.132	43	4342020	198.34	ppb		99
24) Diisopropyl ether (DIPE)	4.170	45	6785785	193.24	ppb		96
25) Ethyl-tert-Butyl ether...	4.508	59	7954218	196.20	ppb	#	98
26) cis-1,2-Dichloroethylene	4.662	61	4247843	184.86	ppb		97
27) 2-Butanone	4.643	72	478450	187.94	ppb		80
28) 2,2-Dichloropropane	4.672	77	4327162	208.40	ppb	#	77
29) Tetrahydrofuran	4.903	42	855329	189.87	ppb		81
30) Bromochloromethane	4.884	49	1905106	193.06	ppb		98
31) Chloroform	4.977	83	5204311	189.58	ppb	#	94
32) 1,1,1-Trichloroethane	5.141	97	4413173	199.24	ppb	#	99
33) Cyclohexane	5.218	56	3737046	183.46	ppb		95
34) 1,1-Dichloropropylene	5.286	75	4036663	177.29	ppb		94
36) Carbon Tetrachloride	5.289	117	3325557	207.86	ppb		100
37) tert-Amyl alcohol (TAA)	5.466	59	3069135	2227.69	ppb	#	97
38) 1,2-Dichloroethane	5.514	62	4251120	192.83	ppb		100
39) Benzene	5.469	78	11421078	176.67	ppb	#	95
40) tert-Amyl methyl ether...	5.591	73	8600881	210.91	ppb	#	100
42) Trichloroethylene	6.093	95	3052569	189.80	ppb		91
43) Methyl Cyclohexane	6.328	83	5354217	175.92	ppb		92
44) Methyl Methacrylate	6.376	69	2585806	206.05	ppb	#	99
45) Dibromomethane	6.418	93	1852684	199.91	ppb		99
46) Bromodichloromethane	6.585	83	4023601	231.56	ppb		98
47) 1,2-Dichloropropane	6.337	63	2619435	192.27	ppb		97
48) 1,4-Dioxane	6.405	88	979410	4129.56	ppb	#	100
49) 2-Nitropropane	6.778	43	1177539	201.34	ppb		97
50) 2-Chloroethyl vinyl ether	6.849	63	1517480	200.11	ppb		99

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406462.D
Acq On : 22 Dec 2019 6:16 pm
Operator : SS
Sample : SEQ-CAL6
Misc : QBV5122219A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 30 11:04:03 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

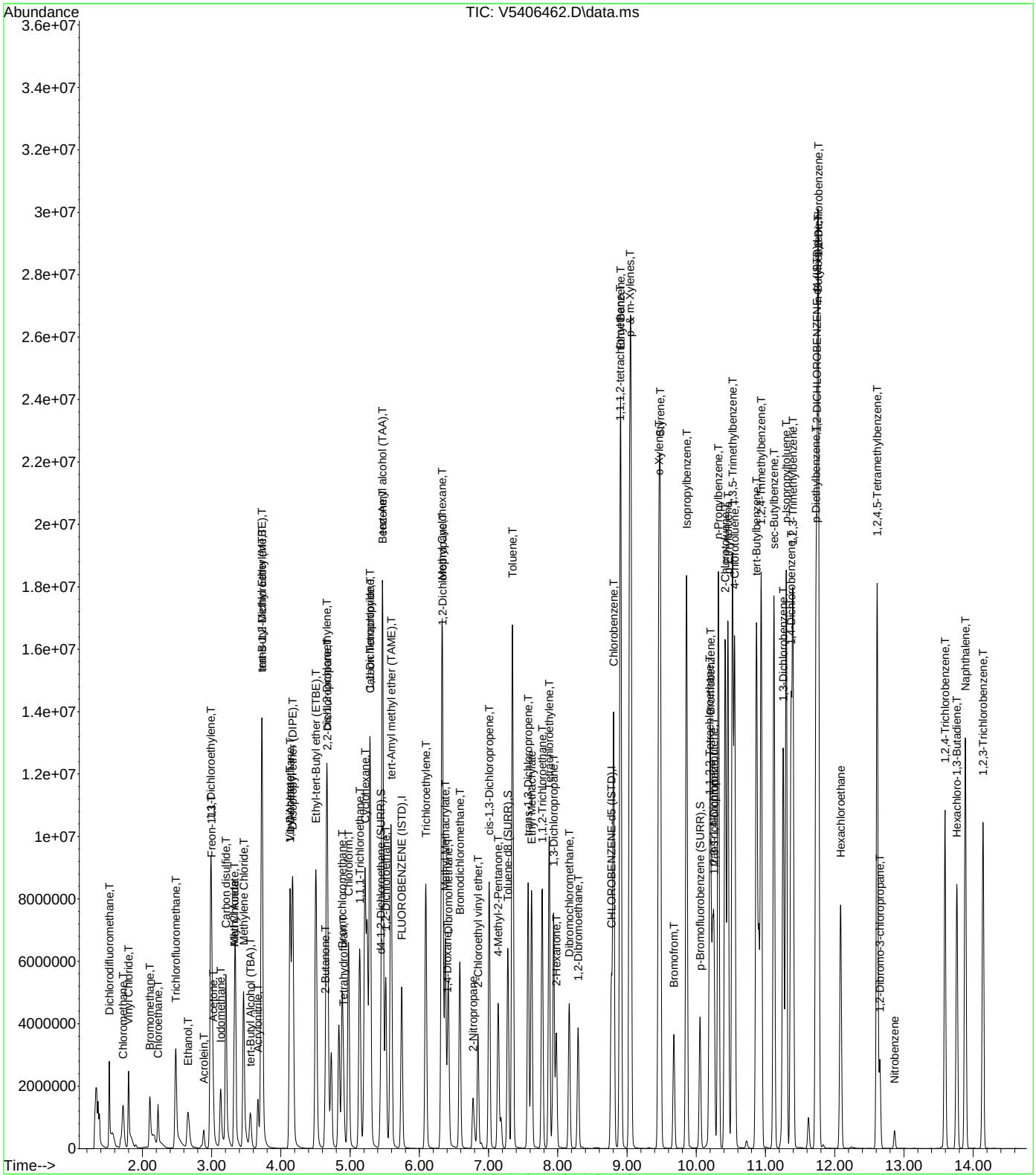
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	cis-1,3-Dichloropropene	7.009	75	5156520	219.83	ppb		95
52)	4-Methyl-2-Pentanone	7.138	43	2815734	202.53	ppb		90
54)	Toluene	7.347	91	12761598	183.00	ppb		100
55)	trans-1,3-Dichloropropene	7.572	75	4880133	200.53	ppb	#	100
56)	Ethyl Methacrylate	7.620	69	4527733	206.99	ppb		86
57)	1,1,2-Trichloroethane	7.775	97	2775606	196.77	ppb		98
58)	1,3-Dichloropropane	7.942	76	4846613	194.39	ppb	#	86
59)	Tetrachloroethylene	7.874	166	2950482	204.40	ppb	#	99
60)	2-Hexanone	7.980	43	2145309	202.03	ppb		94
61)	Dibromochloromethane	8.167	129	2414566	198.70	ppb		99
62)	1,2-Dibromoethane	8.292	107	2695148	196.41	ppb		98
63)	Chlorobenzene	8.807	112	7718387	182.59	ppb		96
64)	1,1,1,2-tetrachloroethane	8.900	131	2310891	206.38	ppb		97
65)	Ethyl Benzene	8.906	91	13956973	177.83	ppb		100
66)	p- & m-Xylenes	9.041	91	20977788m	335.92	ppb		
67)	o-Xylene	9.459	91	11609929	181.19	ppb		99
68)	Styrene	9.479	104	8967271	184.99	ppb		99
69)	Bromofrom	9.678	173	1631459	206.82	ppb	#	100
71)	p-Ethyltoluene	10.456	105	11941796	180.42	ppb	#	88
72)	Isopropylbenzene	9.861	105	13636284	185.13	ppb		98
74)	1,1,2,2-Tetrachloroethane	10.189	83	3651439	196.60	ppb		98
75)	Bromobenzene	10.209	77	5891608	191.34	ppb		95
76)	trans-1,4-Dichloro-2-b...	10.254	75	5093120	215.38	ppb		97
77)	1,2,3-Trichloropropane	10.257	110	1153426	195.04	ppb		99
78)	n-Propylbenzene	10.318	91	15672820	176.08	ppb		99
79)	2-Chlorotoluene	10.418	91	10523827	182.08	ppb		98
80)	4-Chlorotoluene	10.553	91	11952496	184.51	ppb		98
81)	1,3,5-Trimethylbenzene	10.524	105	11469979	185.59	ppb		95
82)	tert-Butylbenzene	10.871	119	10272420	186.64	ppb		93
83)	1,2,4-Trimethylbenzene	10.938	105	11449139	185.75	ppb		97
84)	sec-Butylbenzene	11.122	105	13544302	185.31	ppb		97
85)	1,3-Dichlorobenzene	11.254	146	5266330	186.09	ppb		95
86)	p-Isopropyltoluene	11.299	119	11666132	188.36	ppb		97
87)	1,4-Dichlorobenzene	11.373	146	5327937	184.70	ppb		95
88)	1,2,3-Trimethylbenzene	11.398	105	11188658	183.83	ppb		97
89)	p-Diethylbenzene	11.729	105	6099097	183.11	ppb		96
90)	1,2-Dichlorobenzene	11.765	146	4942386	184.24	ppb	#	68
91)	n-Butylbenzene	11.755	91	11907761m	190.97	ppb		
92)	Hexachloroethane	12.086	117	1762062	203.75	ppb		99
93)	1,2-Dibromo-3-chloropr...	12.652	75	957694	204.07	ppb	#	100
94)	Nitrobenzene	12.864	77	301866	206.20	ppb		93
95)	1,2,4,5-Tetramethylben...	12.614	119	10562869	189.09	ppb		97
96)	1,2,4-Trichlorobenzene	13.594	180	3440476	189.58	ppb		98
97)	Hexachloro-1,3-Butadiene	13.765	225	1698195	191.07	ppb		98
98)	Naphthalene	13.887	128	10508184	199.11	ppb		100
99)	1,2,3-Trichlorobenzene	14.141	180	3289760	190.75	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406462.D
Acq On : 22 Dec 2019 6:16 pm
Operator : SS
Sample : SEQ-CAL6
Misc : QBV5122219A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 30 11:04:03 2019
Quant Method : C:\msdchem\1\methods\V5C00225.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Nov 18 10:00:52 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YB00013 **Laboratory ID:** Y0B1216-SCV1

Sequence: Y0B1216 **Standard ID:** Y20A020

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.01	-9.9	30.00
1,1,1-Trichloroethane	10.0	8.82	-11.8	30.00
1,1,2,2-Tetrachloroethane	10.0	9.42	-5.8	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.86	-1.4	30.00
1,1,2-Trichloroethane	10.0	9.36	-6.4	30.00
1,1-Dichloroethane	10.0	8.93	-10.7	30.00
1,1-Dichloroethylene	10.0	9.06	-9.4	30.00
1,2,3-Trichlorobenzene	10.0	8.82	-11.8	30.00
1,2,3-Trichloropropane	10.0	9.10	-9.0	30.00
1,2,4-Trichlorobenzene	10.0	8.68	-13.2	30.00
1,2,4-Trimethylbenzene	10.0	8.56	-14.4	30.00
1,2-Dibromo-3-chloropropane	10.0	8.46	-15.4	30.00
1,2-Dibromoethane	10.0	9.25	-7.5	30.00
1,2-Dichlorobenzene	10.0	9.03	-9.7	30.00
1,2-Dichloroethane	10.0	8.87	-11.3	30.00
1,2-Dichloropropane	10.0	9.50	-5.0	30.00
1,3,5-Trimethylbenzene	10.0	8.63	-13.7	30.00
1,3-Dichlorobenzene	10.0	8.72	-12.8	30.00
1,4-Dichlorobenzene	10.0	8.64	-13.6	30.00
1,4-Dioxane	210	145	-31.0 *	30.00
2-Butanone	10.0	12.3	23.4	30.00
2-Hexanone	10.0	11.1	11.3	30.00
4-Methyl-2-pentanone	10.0	11.6	15.7	30.00
Acetone	10.0	10.6	6.3	30.00
Acrolein	10.0	13.2	31.8 *	30.00
Acrylonitrile	10.0	11.4	14.2	30.00
Benzene	10.0	9.26	-7.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YB00013 **Laboratory ID:** Y0B1216-SCV1

Sequence: Y0B1216 **Standard ID:** Y20A020

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	10.0	9.98	-0.2	30.00
Bromodichloromethane	10.0	9.14	-8.6	30.00
Bromoform	10.0	9.22	-7.8	30.00
Bromomethane	10.0	17.8	78.4 *	30.00
Carbon disulfide	10.0	9.83	-1.7	30.00
Carbon tetrachloride	10.0	8.42	-15.8	30.00
Chlorobenzene	10.0	9.10	-9.0	30.00
Chloroethane	10.0	8.10	-19.0	30.00
Chloroform	10.0	8.85	-11.5	30.00
Chloromethane	10.0	9.62	-3.8	30.00
cis-1,2-Dichloroethylene	10.0	8.98	-10.2	30.00
cis-1,3-Dichloropropylene	10.0	9.38	-6.2	30.00
Cyclohexane	10.0	3.90	-61.0 *	30.00
Dibromochloromethane	10.0	9.31	-6.9	30.00
Dibromomethane	10.0	9.60	-4.0	30.00
Dichlorodifluoromethane	10.0	11.0	10.0	30.00
Ethyl Benzene	10.0	8.93	-10.7	30.00
Hexachlorobutadiene	10.0	8.79	-12.1	30.00
Isopropylbenzene	10.0	8.26	-17.4	30.00
Methyl acetate	10.0	8.66	-13.4	30.00
Methyl tert-butyl ether (MTBE)	10.0	9.05	-9.5	30.00
Methylcyclohexane	10.0	9.03	-9.7	30.00
Methylene chloride	10.0	8.57	-14.3	30.00
n-Butylbenzene	10.0	8.67	-13.3	30.00
n-Propylbenzene	10.0	8.45	-15.5	30.00
o-Xylene	10.0	9.00	-10.0	30.00
p- & m- Xylenes	20.0	17.9	-10.6	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YB00013 **Laboratory ID:** Y0B1216-SCV1

Sequence: Y0B1216 **Standard ID:** Y20A020

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	8.73	-12.7	30.00
sec-Butylbenzene	10.0	8.89	-11.1	30.00
Styrene	10.0	9.49	-5.1	30.00
tert-Butyl alcohol (TBA)	50.0	44.8	-10.3	30.00
tert-Butylbenzene	10.0	7.43	-25.7	30.00
Tetrachloroethylene	10.0	8.26	-17.4	30.00
Toluene	10.0	9.08	-9.2	30.00
trans-1,2-Dichloroethylene	10.0	9.34	-6.6	30.00
trans-1,3-Dichloropropylene	10.0	9.12	-8.8	30.00
trans-1,4-dichloro-2-butene	10.0	8.97	-10.3	30.00
Trichloroethylene	10.0	9.23	-7.7	30.00
Trichlorofluoromethane	10.0	9.19	-8.1	30.00
Vinyl Chloride	10.0	11.5	14.9	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909902.D
Acq On : 30 Jan 2020 8:23 pm
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV90012920A ICV AQU
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 31 12:08:01 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.787	70	155663	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.838	117	625105	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.829	152	203520	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.470	65	206880	9.72	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 97.20%				
51) Toluene-d8 (SURR)	7.333	98	832436	10.18	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.80%				
70) p-Bromofluorobenzene (...	10.132	95	318938	9.43	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 94.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	181377	11.00	ppb	#	1
3) Chloromethane	1.768	50	62574	9.62	ppb		98
4) Vinyl Chloride	1.844	62	133101	11.49	ppb	#	98
5) Bromomethane	2.161	94	16042	17.84	ppb		96
6) Chloroethane	2.274	64	55544	8.10	ppb	#	19
7) Trichlorofluoromethane	2.527	101	237424	9.19	ppb	#	20
9) Freon-113	3.044	101	141844	9.86	ppb	#	1
10) 1,1-Dichloroethylene	3.027	61	225666	9.06	ppb	#	83
11) Acrolein	2.907	56	12599	13.18	ppb	#	1
12) Acetone	3.032	43	23358	10.63	ppb	#	1
13) Iodomethane	3.172	142	16846	9.11	ppb	#	72
14) Methyl Acetate	3.352	43	45417	8.66	ppb	#	1
15) Carbon disulfide	3.259	76	356387	9.83	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.564	59	44053	44.85	ppb	#	1
17) Methylene Chloride	3.486	49	148157	8.57	ppb	#	74
18) Acrylonitrile	3.759	53	4165	11.42	ppb	#	1
19) trans-1,2-Dichloroethy...	3.768	61	215434	9.34	ppb	#	83
20) tert-Butyl Methyl Ethe...	3.762	73	365780	9.05	ppb	#	96
21) 1,1-Dichloroethane	4.163	63	262616	8.93	ppb	#	99
22) Vinyl Acetate	4.151	43	187857	11.80	ppb	#	1
23) Diisopropyl ether (DIPE)	4.209	45	409189	10.07	ppb	#	41
24) Ethyl-tert-Butyl ether...	4.549	59	495210	10.12	ppb	#	98
25) cis-1,2-Dichloroethylene	4.692	61	247527	8.98	ppb	#	80
26) 2-Butanone	4.651	72	12314	12.34	ppb	#	1
27) 2,2-Dichloropropane	4.703	77	214248	8.11	ppb	#	87
28) Tetrahydrofuran	4.942	42	18973	9.63	ppb	#	1
29) Bromochloromethane	4.912	49	96055	9.98	ppb	#	45
30) Chloroform	5.003	83	276963	8.85	ppb	#	85
31) 1,1,1-Trichloroethane	5.183	97	266682	8.82	ppb	#	26
32) Cyclohexane	5.279	56	237058	3.90	ppb	#	71
33) 1,1-Dichloropropylene	5.334	75	209899	9.03	ppb	#	66
35) Carbon Tetrachloride	5.345	117	212796	8.42	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.476	59	73356	99.22	ppb	#	16
37) 1,2-Dichloroethane	5.543	62	200541	8.87	ppb	#	98
38) Benzene	5.511	78	593762	9.26	ppb	#	94
39) tert-Amyl methyl ether...	5.636	73	402357	9.75	ppb	#	1
41) Trichloroethylene	6.142	95	166038	9.23	ppb	#	75
42) Methyl Cyclohexane	6.397	83	242510	9.03	ppb	#	50
43) Methyl Methacrylate	6.409	69	119782	9.21	ppb	#	96
44) Dibromomethane	6.461	93	75777	9.60	ppb	#	89
45) Bromodichloromethane	6.624	83	205827	9.14	ppb	#	96
46) 1,2-Dichloropropane	6.377	63	150892	9.50	ppb	#	84
47) 1,4-Dioxane	6.444	88	9676	144.99	ppb		96
48) 2-Chloroethyl vinyl ether	6.886	63	55546	10.39	ppb	#	1
49) cis-1,3-Dichloropropene	7.054	75	230291	9.38	ppb	#	73
50) 4-Methyl-2-Pentanone	7.168	43	91395	11.57	ppb	#	53
52) Toluene	7.403	91	663148	9.08	ppb		99

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909902.D
Acq On : 30 Jan 2020 8:23 pm
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV90012920A ICV AQU
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 31 12:08:01 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

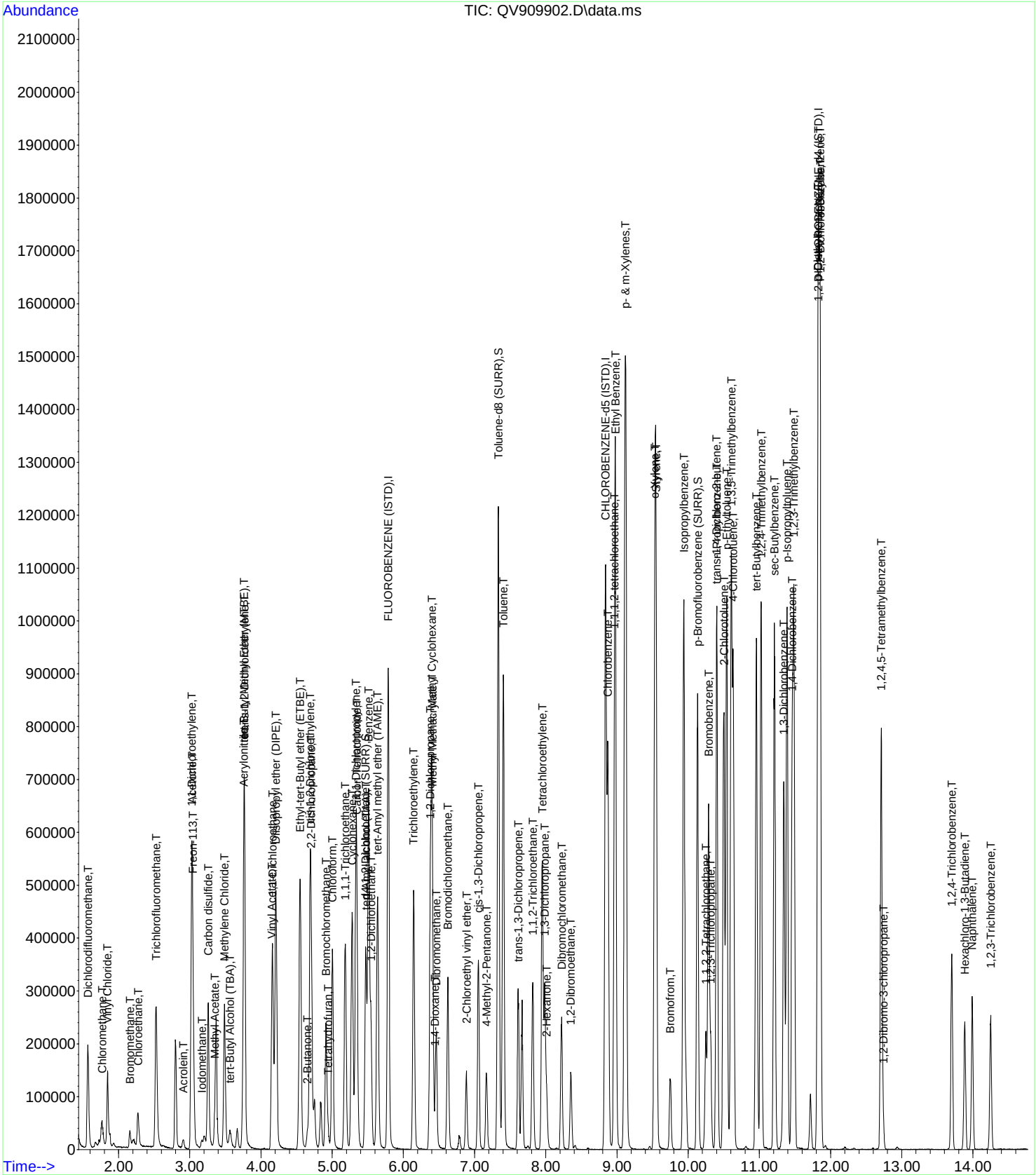
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.615	75	189330	9.12	ppb	#	98
54) 1,1,2-Trichloroethane	7.816	97	104989	9.36	ppb	#	1
55) 1,3-Dichloropropane	7.984	76	188597	9.56	ppb	#	68
56) Tetrachloroethylene	7.952	166	160600	8.26	ppb	#	100
57) 2-Hexanone	8.013	43	61696	11.13	ppb	#	1
58) Dibromochloromethane	8.222	129	127705	9.31	ppb	#	83
59) 1,2-Dibromoethane	8.350	107	99383	9.25	ppb		92
60) Chlorobenzene	8.873	112	431080	9.10	ppb	#	88
61) 1,1,1,2-tetrachloroethane	8.963	131	147885	9.01	ppb	#	48
62) Ethyl Benzene	8.978	91	763109	8.93	ppb		98
63) p- & m-Xylenes	9.117	91	1224798	17.87	ppb		94
64) o-Xylene	9.530	91	624165	9.00	ppb		96
65) Styrene	9.550	104	473814	9.49	ppb	#	82
66) Bromofrom	9.748	173	64077	9.22	ppb	#	95
68) p-Ethyltoluene	10.541	105	689412	8.59	ppb	#	97
69) Isopropylbenzene	9.940	105	750905	8.26	ppb	#	89
71) 1,1,2,2-Tetrachloroethane	10.248	83	110917	9.42	ppb	#	97
72) Bromobenzene	10.286	77	308476	8.72	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.399	75	5825	8.97	ppb	#	1
74) 1,2,3-Trichloropropane	10.315	110	35083	9.10	ppb	#	1
75) n-Propylbenzene	10.402	91	877832	8.45	ppb	#	88
76) 2-Chlorotoluene	10.504	91	535749	8.42	ppb		98
77) 4-Chlorotoluene	10.631	91	620741	8.42	ppb		95
78) 1,3,5-Trimethylbenzene	10.605	105	655145	8.63	ppb	#	61
79) tert-Butylbenzene	10.957	119	524117	7.43	ppb	#	90
80) 1,2,4-Trimethylbenzene	11.027	105	647252	8.56	ppb		94
81) sec-Butylbenzene	11.210	105	740852	8.89	ppb	#	92
82) 1,3-Dichlorobenzene	11.343	146	296882	8.72	ppb		92
83) p-Isopropyltoluene	11.387	119	651136	8.73	ppb		94
84) 1,4-Dichlorobenzene	11.460	146	294453	8.64	ppb		91
85) 1,2,3-Trimethylbenzene	11.483	105	614099	8.90	ppb	#	91
86) p-Diethylbenzene	11.823	105	342881	9.33	ppb	#	59
87) 1,2-Dichlorobenzene	11.855	146	259640	9.03	ppb	#	100
88) n-Butylbenzene	11.852	91	663561	8.67	ppb		94
89) 1,2-Dibromo-3-chloropr...	12.741	75	19646	8.46	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.709	119	480697	8.33	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.703	180	115358	8.68	ppb	#	11
92) Hexachloro-1,3-Butadiene	13.886	225	51122	8.79	ppb	#	70
93) Naphthalene	13.988	128	233900	8.59	ppb	#	93
94) 1,2,3-Trichlorobenzene	14.249	180	79889	8.82	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909902.D
Acq On : 30 Jan 2020 8:23 pm
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV90012920A ICV AQU
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 31 12:08:01 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YL90031 **Laboratory ID:** Y9L3016-SCV1

Sequence: Y9L3016 **Standard ID:** Y19L135

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	50.0	51.1	2.1	30.00
1,1,1-Trichloroethane	50.0	53.3	6.6	30.00
1,1,2,2-Tetrachloroethane	50.0	49.7	-0.5	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	56.3	12.6	30.00
1,1,2-Trichloroethane	50.0	48.9	-2.2	30.00
1,1-Dichloroethane	50.0	49.7	-0.6	30.00
1,1-Dichloroethylene	50.0	53.6	7.1	30.00
1,2,3-Trichlorobenzene	50.0	49.6	-0.8	30.00
1,2,3-Trichloropropane	50.0	48.7	-2.6	30.00
1,2,4-Trichlorobenzene	50.0	49.8	-0.5	30.00
1,2,4-Trimethylbenzene	50.0	50.2	0.5	30.00
1,2-Dibromo-3-chloropropane	50.0	46.7	-6.5	30.00
1,2-Dibromoethane	50.0	51.6	3.1	30.00
1,2-Dichlorobenzene	50.0	49.2	-1.5	30.00
1,2-Dichloroethane	50.0	49.9	-0.3	30.00
1,2-Dichloropropane	50.0	49.4	-1.2	30.00
1,3,5-Trimethylbenzene	50.0	50.2	0.3	30.00
1,3-Dichlorobenzene	50.0	49.2	-1.6	30.00
1,4-Dichlorobenzene	50.0	48.5	-3.0	30.00
1,4-Dioxane	1050	1080	2.7	30.00
2-Butanone	50.0	52.8	5.5	30.00
2-Hexanone	50.0	50.1	0.2	30.00
4-Methyl-2-pentanone	50.0	50.5	1.0	30.00
Acetone	50.0	42.3	-15.5	30.00
Acrolein	50.0	41.8	-16.4	30.00
Acrylonitrile	50.0	51.0	2.0	30.00
Benzene	50.0	51.9	3.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YL90031 **Laboratory ID:** Y9L3016-SCV1

Sequence: Y9L3016 **Standard ID:** Y19L135

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	50.0	50.1	0.2	30.00
Bromodichloromethane	50.0	52.4	4.8	30.00
Bromoform	50.0	46.6	-6.9	30.00
Bromomethane	50.0	57.6	15.2	30.00
Carbon disulfide	50.0	58.2	16.4	30.00
Carbon tetrachloride	50.0	52.5	5.0	30.00
Chlorobenzene	50.0	50.1	0.3	30.00
Chloroethane	50.0	54.2	8.4	30.00
Chloroform	50.0	51.0	2.0	30.00
Chloromethane	50.0	53.0	6.0	30.00
cis-1,2-Dichloroethylene	50.0	51.2	2.5	30.00
cis-1,3-Dichloropropylene	50.0	51.7	3.4	30.00
Cyclohexane	50.0	59.8	19.7	30.00
Dibromochloromethane	50.0	48.9	-2.2	30.00
Dibromomethane	50.0	49.5	-1.0	30.00
Dichlorodifluoromethane	50.0	64.1	28.2	30.00
Ethyl Benzene	50.0	51.0	2.0	30.00
Hexachlorobutadiene	50.0	49.1	-1.7	30.00
Isopropylbenzene	50.0	48.6	-2.7	30.00
Methyl acetate	50.0	48.0	-4.1	30.00
Methyl tert-butyl ether (MTBE)	50.0	51.9	3.9	30.00
Methylcyclohexane	50.0	52.5	4.9	30.00
Methylene chloride	50.0	54.1	8.2	30.00
n-Butylbenzene	50.0	47.6	-4.9	30.00
n-Propylbenzene	50.0	48.9	-2.1	30.00
o-Xylene	50.0	49.9	-0.1	30.00
p- & m- Xylenes	100	101	1.2	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YL90031 **Laboratory ID:** Y9L3016-SCV1

Sequence: Y9L3016 **Standard ID:** Y19L135

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	50.0	50.5	1.0	30.00
sec-Butylbenzene	50.0	51.9	3.7	30.00
Styrene	50.0	52.0	4.0	30.00
tert-Butyl alcohol (TBA)	250	253	1.1	30.00
tert-Butylbenzene	50.0	42.9	-14.2	30.00
Tetrachloroethylene	50.0	46.7	-6.7	30.00
Toluene	50.0	50.7	1.5	30.00
trans-1,2-Dichloroethylene	50.0	54.6	9.2	30.00
trans-1,3-Dichloropropylene	50.0	51.3	2.5	30.00
trans-1,4-dichloro-2-butene	50.0	49.3	-1.4	30.00
Trichloroethylene	50.0	51.2	2.3	30.00
Trichlorofluoromethane	50.0	54.4	8.7	30.00
Vinyl Chloride	50.0	49.7	-0.5	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406466.D
Acq On : 22 Dec 2019 7:57 pm
Operator : SS
Sample : SEQ-SCV1
Misc : QBV5122219A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 12:14:13 2019
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.746	70	873481	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.775	117	2920129	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	1234840	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.440	65	1266457	49.37	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.74%				
53) Toluene-d8 (SURR)	7.276	98	4278854	49.76	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.52%				
73) p-Bromofluorobenzene (...	10.054	95	1696950	49.57	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	862602	64.12	ppb	#	68
3) Chloromethane	1.724	50	541413	53.02	ppb		99
4) Vinyl Chloride	1.801	62	578100	49.73	ppb		100
5) Bromomethane	2.106	94	441022	57.60	ppb		79
6) Chloroethane	2.225	64	371545	54.18	ppb		98
7) Trichlorofluoromethane	2.479	101	885139	54.35	ppb		99
9) Freon-113	3.000	101	672733	56.30	ppb	#	72
10) 1,1-Dichloroethylene	2.987	61	967331	53.57	ppb		92
11) Acrolein	2.888	56	85608	41.82	ppb	#	100
12) Acetone	3.023	43	218008	42.26	ppb		99
13) Iodomethane	3.129	142	625878	57.96	ppb		99
14) Allyl Chloride	3.328	43	475890	47.96	ppb	#	78
15) Methyl Acetate	3.328	43	475890	47.96	ppb		98
16) Carbon disulfide	3.206	76	2000443	58.21	ppb		100
17) tert-Butyl Alcohol (TBA)	3.563	59	455817	252.75	ppb		98
18) Methylene Chloride	3.463	49	732713	54.08	ppb		85
19) Acrylonitrile	3.666	53	262814	50.98	ppb		99
20) trans-1,2-Dichloroethy...	3.730	61	973317	54.60	ppb		97
21) tert-Butyl Methyl Ethe...	3.724	73	2144533	51.93	ppb	#	100
22) 1,1-Dichloroethane	4.135	63	1172454	49.68	ppb	#	100
23) Vinyl Acetate	4.132	43	1048036	48.75	ppb		99
24) Diisopropyl ether (DIPE)	4.170	45	1660609	48.78	ppb		96
25) Ethyl-tert-Butyl ether...	4.508	59	2024803	51.74	ppb	#	98
26) cis-1,2-Dichloroethylene	4.662	61	1084598	51.23	ppb		96
27) 2-Butanone	4.643	72	121119	52.75	ppb		78
28) 2,2-Dichloropropane	4.672	77	1013176	51.26	ppb	#	77
29) Tetrahydrofuran	4.904	42	201236	48.53	ppb		81
30) Bromochloromethane	4.884	49	473330	50.12	ppb		96
31) Chloroform	4.977	83	1300989	51.01	ppb		99
32) 1,1,1-Trichloroethane	5.138	97	1101689	53.30	ppb	#	99
33) Cyclohexane	5.215	56	1117493	59.85	ppb	#	88
34) 1,1-Dichloropropylene	5.286	75	1043446	51.06	ppb		87
36) Carbon Tetrachloride	5.289	117	791006	52.48	ppb		100
37) tert-Amyl alcohol (TAA)	5.466	59	708124	523.30	ppb	#	96
38) 1,2-Dichloroethane	5.514	62	1025237	49.87	ppb		100
39) Benzene	5.469	78	3069422	51.94	ppb	#	98
40) tert-Amyl methyl ether...	5.588	73	2095996	51.01	ppb	#	100
42) Trichloroethylene	6.093	95	781138	51.16	ppb		90
43) Methyl Cyclohexane	6.328	83	1444533	52.47	ppb		93
44) Methyl Methacrylate	6.376	69	613390	49.66	ppb	#	99
45) Dibromomethane	6.418	93	451309	49.48	ppb		99
46) Bromodichloromethane	6.585	83	947606	52.39	ppb		99
47) 1,2-Dichloropropane	6.338	63	663320	49.39	ppb		98
48) 1,4-Dioxane	6.405	88	248348	1078.65	ppb	#	100
49) 2-Nitropropane	6.778	43	239604	50.41	ppb		98
50) 2-Chloroethyl vinyl ether	6.849	63	458407	62.02	ppb		99
51) cis-1,3-Dichloropropene	7.010	75	1233907	51.71	ppb		95

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406466.D
Acq On : 22 Dec 2019 7:57 pm
Operator : SS
Sample : SEQ-SCV1
Misc : QBV5122219A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 12:14:13 2019
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

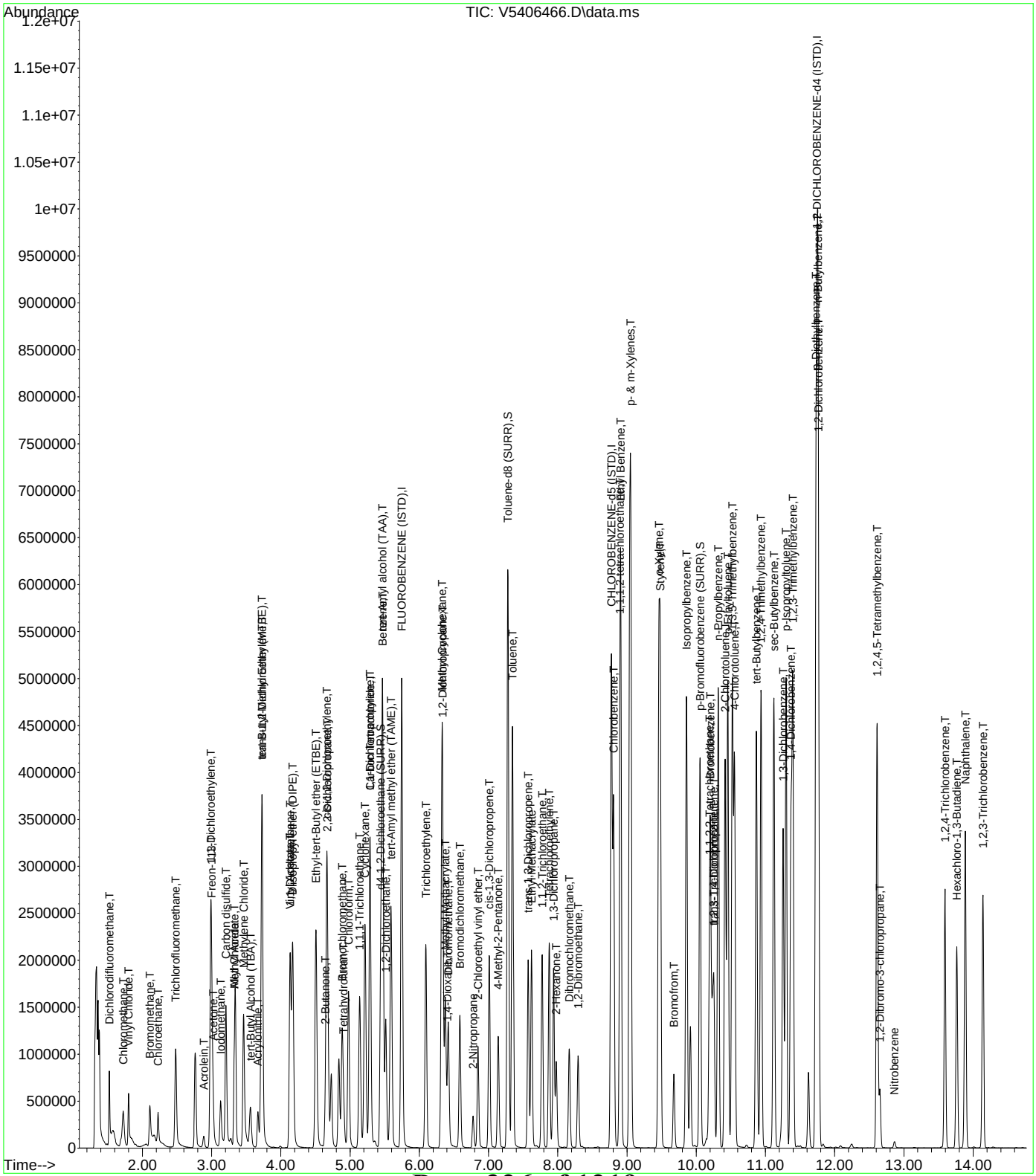
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.138	43	695791	50.49	ppb		90
54) Toluene	7.347	91	3380018	50.73	ppb		100
55) trans-1,3-Dichloropropene	7.572	75	1112156	51.27	ppb	#	100
56) Ethyl Methacrylate	7.620	69	1135750	51.86	ppb		86
57) 1,1,2-Trichloroethane	7.775	97	680937	48.88	ppb		98
58) 1,3-Dichloropropane	7.942	76	1218617	49.39	ppb	#	100
59) Tetrachloroethylene	7.878	166	636240	46.66	ppb	#	99
60) 2-Hexanone	7.977	43	512748	50.09	ppb		91
61) Dibromochloromethane	8.167	129	555663	48.92	ppb		99
62) 1,2-Dibromoethane	8.292	107	689381	51.57	ppb		98
63) Chlorobenzene	8.807	112	1984473	50.14	ppb		96
64) 1,1,1,2-tetrachloroethane	8.897	131	563746	51.07	ppb		96
65) Ethyl Benzene	8.907	91	3789351	50.98	ppb		98
66) p- & m-Xylenes	9.048	91	5985385	101.16	ppb		98
67) o-Xylene	9.460	91	3048274	49.94	ppb		99
68) Styrene	9.479	104	2379169	52.00	ppb		99
69) Bromofrom	9.678	173	341473	46.55	ppb	#	77
71) p-Ethyltoluene	10.456	105	3377092	53.61	ppb	#	99
72) Isopropylbenzene	9.858	105	3528206	48.64	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.189	83	960496	49.73	ppb		97
75) Bromobenzene	10.206	77	1539171	49.30	ppb		94
76) trans-1,4-Dichloro-2-b...	10.254	75	1228278	49.29	ppb		95
77) 1,2,3-Trichloropropane	10.254	110	291108	48.69	ppb		93
78) n-Propylbenzene	10.318	91	4316285	48.94	ppb		97
79) 2-Chlorotoluene	10.418	91	2717777	47.71	ppb		98
80) 4-Chlorotoluene	10.553	91	3111933	48.88	ppb		98
81) 1,3,5-Trimethylbenzene	10.521	105	3040801	50.16	ppb		96
82) tert-Butylbenzene	10.871	119	2301566	42.89	ppb		84
83) 1,2,4-Trimethylbenzene	10.935	105	3039171	50.23	ppb		96
84) sec-Butylbenzene	11.122	105	3733690	51.86	ppb		97
85) 1,3-Dichlorobenzene	11.254	146	1344894	49.18	ppb		95
86) p-Isopropyltoluene	11.296	119	3052384	50.51	ppb		97
87) 1,4-Dichlorobenzene	11.369	146	1353675	48.51	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	3107115	53.32	ppb		96
89) p-Diethylbenzene	11.730	105	1817175	57.29	ppb		92
90) 1,2-Dichlorobenzene	11.765	146	1276074	49.23	ppb	#	100
91) n-Butylbenzene	11.755	91	3005573m	47.56	ppb		
93) 1,2-Dibromo-3-chloropr...	12.652	75	208458	46.73	ppb	#	100
94) Nitrobenzene	12.861	77	37227	42.76	ppb		92
95) 1,2,4,5-Tetramethylben...	12.614	119	2678230	51.00	ppb		97
96) 1,2,4-Trichlorobenzene	13.594	180	874295	49.76	ppb		98
97) Hexachloro-1,3-Butadiene	13.765	225	417338	49.14	ppb		98
98) Naphthalene	13.887	128	2608643	50.42	ppb		100
99) 1,2,3-Trichlorobenzene	14.141	180	828667	49.60	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406466.D
Acq On : 22 Dec 2019 7:57 pm
Operator : SS
Sample : SEQ-SCV1
Misc : QBV5122219A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 12:14:13 2019
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	VOA No. 5	Calibration:	YL90031
Lab File ID:	V5407296.D	Calibration Date:	12/30/19 12:43
Sequence:	Y0B0615	Injection Date:	02/06/20
Lab Sample ID:	Y0B0615-CCV1	Injection Time:	09:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	50.0	53.6	0.1890025	0.2027645		7.3	20
1,1,1-Trichloroethane	A	50.0	58.7	1.183278	1.389274	0.1	17.4	20
1,1,2,2-Tetrachloroethane	A	50.0	47.5	0.782088	0.7435346	0.3	-4.9	20
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	A	50.0	59.6	0.684037	0.8159292	0.1	19.3	20
1,1,2-Trichloroethane	A	50.0	51.6	0.2385523	0.246306	0.1	3.3	20
1,1-Dichloroethane	A	50.0	55.4	1.350862	1.495811	0.2	10.7	20
1,1-Dichloroethylene	A	50.0	57.6	1.033558	1.19064	0.1	15.2	20
1,2,3-Trichlorobenzene	A	50.0	51.7	0.676432	0.6996077		3.4	20
1,2,3-Trichloropropane	A	50.0	50.9	0.2420864	0.2462921		1.7	20
1,2,4-Trichlorobenzene	A	50.0	52.5	0.711432	0.7470569	0.2	5.0	20
1,2,4-Trimethylbenzene	A	50.0	51.0	2.449708	2.497542		2.0	20
1,2-Dibromo-3-chloropropane	L	50.0	43.3	0.161911	0.1548904	0.05	-13.4	20
1,2-Dibromoethane	A	50.0	52.5	0.2288968	0.240395	0.1	5.0	20
1,2-Dichlorobenzene	A	50.0	50.9	1.049512	1.068843	0.4	1.8	20
1,2-Dichloroethane	A	50.0	57.5	1.176698	1.353313	0.1	15.0	20
1,2-Dichloropropane	A	50.0	49.4	0.2299633	0.2270152	0.1	-1.3	20
1,3,5-Trimethylbenzene	A	50.0	51.0	2.454729	2.502265		1.9	20
1,3-Dichlorobenzene	A	50.0	51.1	1.107301	1.130969	0.6	2.1	20
1,4-Dichlorobenzene	A	50.0	51.2	1.129926	1.158157	0.5	2.5	20
1,4-Dioxane	A	1000	1050	3.942293E-03	0.0041373		4.9	20
2-Butanone	A	50.0	57.6	0.1314407	0.1515315	0.1	15.3	20
2-Hexanone	A	50.0	52.6	0.175277	0.1843178	0.1	5.2	20
4-Methyl-2-pentanone	A	50.0	51.2	0.2359662	0.241755	0.1	2.5	20
Acetone	A	50.0	59.2	0.2952705	0.3494812	0.1	18.4	20
Acrolein	A	50.0	59.0	0.1171887	0.1381558		17.9	20
Acrylonitrile	A	50.0	54.4	0.2950859	0.3209677		8.8	20
Benzene	A	50.0	55.3	3.382829	3.738878	0.5	10.5	20
Bromochloromethane	A	50.0	55.9	0.5405761	0.6046713		11.9	20
Bromodichloromethane	A	50.0	52.3	0.3096825	0.3240523	0.2	4.6	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	VOA No. 5	Calibration:	YL90031
Lab File ID:	V5407296.D	Calibration Date:	12/30/19 12:43
Sequence:	Y0B0615	Injection Date:	02/06/20
Lab Sample ID:	Y0B0615-CCV1	Injection Time:	09:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	L	50.0	46.4	0.1076197	0.1166622	0.1	-7.1	20	
Bromomethane	A	50.0	57.6	0.4382531	0.5046793	0.1	15.2	20	
Carbon disulfide	A	50.0	56.1	1.967226	2.207278	0.1	12.2	20	
Carbon tetrachloride	A	50.0	60.5	0.8627823	1.043402	0.1	20.9	20	*
Chlorobenzene	A	50.0	51.9	0.6776202	0.7039721	0.5	3.9	20	
Chloroethane	A	50.0	57.9	0.3925258	0.4545571	0.1	15.8	20	
Chloroform	A	50.0	57.0	1.459916	1.663254	0.2	13.9	20	
Chloromethane	A	50.0	55.4	0.584501	0.6475634	0.1	10.8	20	
cis-1,2-Dichloroethylene	A	50.0	55.5	1.211986	1.345649	0.1	11.0	20	
cis-1,3-Dichloropropylene	A	50.0	51.0	0.4085731	0.4165359	0.2	1.9	20	
Cyclohexane	A	50.0	56.9	1.068845	1.215622	0.1	13.7	20	
Dibromochloromethane	L	50.0	48.3	0.1742837	0.1875431	0.1	-3.5	20	
Dibromomethane	A	50.0	51.6	0.1561883	0.161242		3.2	20	
Dichlorodifluoromethane	A	50.0	55.1	0.7700427	0.847992	0.1	10.1	20	
Ethyl Benzene	A	50.0	52.7	1.272689	1.342262	0.1	5.5	20	
Hexachlorobutadiene	A	50.0	52.9	0.3439175	0.3637071		5.8	20	
Isopropylbenzene	A	50.0	50.8	2.937179	2.985001	0.1	1.6	20	
Methyl acetate	A	50.0	56.3	0.5679879	0.6400185	0.1	12.7	20	
Methyl tert-butyl ether (MTBE)	A	50.0	54.1	2.363953	2.557969	0.1	8.2	20	
Methylcyclohexane	A	50.0	52.2	0.4713674	0.4926188	0.1	4.5	20	
Methylene chloride	A	50.0	54.8	0.7755339	0.850172	0.1	9.6	20	
n-Butylbenzene	A	50.0	48.8	2.558785	2.49687		-2.4	20	
n-Propylbenzene	A	50.0	50.6	3.570971	3.617488		1.3	20	
o-Xylene	A	50.0	52.8	1.045242	1.10389	0.3	5.6	20	
p- & m- Xylenes	A	100	107	1.013097	1.084842	0.1	7.1	20	
p-Isopropyltoluene	A	50.0	51.1	2.446748	2.499096		2.1	20	
sec-Butylbenzene	A	50.0	50.5	2.91526	2.945706		1.0	20	
Styrene	A	50.0	53.2	0.7834469	0.8327518	0.3	6.3	20	
tert-Butyl alcohol (TBA)	A	250	251	0.1032341	0.1034904		0.2	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	VOA No. 5	Calibration:	YL90031
Lab File ID:	V5407296.D	Calibration Date:	12/30/19 12:43
Sequence:	Y0B0615	Injection Date:	02/06/20
Lab Sample ID:	Y0B0615-CCV1	Injection Time:	09:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	50.9	2.172634	2.210351		1.7	20	
Tetrachloroethylene	A	50.0	51.2	0.2334633	0.2391887	0.2	2.5	20	
Toluene	A	50.0	51.1	1.140843	1.166712	0.4	2.3	20	
trans-1,2-Dichloroethylene	A	50.0	56.7	1.020343	1.157421	0.1	13.4	20	
trans-1,3-Dichloropropylene	A	50.0	51.0	0.3714148	0.3784361	0.1	1.9	20	
trans-1,4-dichloro-2-butene	A	50.0	47.7	1.008953	0.9623195		-4.6	20	
Trichloroethylene	A	50.0	52.0	0.2614109	0.2716609	0.2	3.9	20	
Trichlorofluoromethane	A	50.0	62.1	0.9321723	1.157106	0.1	24.1	20	*
Vinyl Chloride	A	50.0	56.3	0.6653645	0.7489015	0.1	12.6	20	

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

* Values outside of QC limits

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407296.D
Acq On : 6 Feb 2020 9:50 am
Operator : SS
Sample : SEQ-CCV1
Misc : QBV5020620A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 06 10:50:21 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.739	70	562365	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.768	117	2036727	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	902270	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.437	65	864088	52.32	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.64%				
53) Toluene-d8 (SURR)	7.273	98	2840663	47.37	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.74%				
73) p-Bromofluorobenzene (...	10.051	95	1196280	47.82	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	476881	55.06	ppb	#	69
3) Chloromethane	1.717	50	364167	55.39	ppb		100
4) Vinyl Chloride	1.801	62	421156	56.28	ppb		100
5) Bromomethane	2.103	94	283814	57.58	ppb		81
6) Chloroethane	2.222	64	255627	57.90	ppb		98
7) Trichlorofluoromethane	2.479	101	650716	62.07	ppb		99
8) Ethanol	2.653	45	290333	2783.76	ppb		100
9) Freon-113	2.993	101	458850	59.64	ppb		98
10) 1,1-Dichloroethylene	2.984	61	669574	57.60	ppb		93
11) Acrolein	2.884	56	77694	58.95	ppb	#	100
12) Acetone	3.016	43	196536	59.18	ppb		100
13) Iodomethane	3.125	142	449892	64.71	ppb		100
14) Allyl Chloride	3.321	43	359924	56.34	ppb	#	86
15) Methyl Acetate	3.321	43	359924	56.34	ppb		98
16) Carbon disulfide	3.202	76	1241296	56.10	ppb		100
17) tert-Butyl Alcohol (TBA)	3.553	59	290997	250.62	ppb	#	93
18) Methylene Chloride	3.456	49	478107	54.81	ppb		85
19) Acrylonitrile	3.662	53	180501	54.39	ppb		98
20) trans-1,2-Dichloroethy...	3.723	61	650893	56.72	ppb		97
21) tert-Butyl Methyl Ethe...	3.717	73	1438512	54.10	ppb	#	100
22) 1,1-Dichloroethane	4.128	63	841192	55.37	ppb	#	100
23) Vinyl Acetate	4.125	43	810786	58.58	ppb		99
24) Diisopropyl ether (DIPE)	4.164	45	1186037	54.12	ppb		96
25) Ethyl-tert-Butyl ether...	4.501	59	1320201	52.40	ppb	#	97
26) cis-1,2-Dichloroethylene	4.656	61	756746	55.51	ppb		96
27) 2-Butanone	4.633	72	85216	57.64	ppb		83
28) 2,2-Dichloropropane	4.665	77	679839	53.42	ppb		98
29) Tetrahydrofuran	4.900	42	146804	54.99	ppb		82
30) Bromochloromethane	4.878	49	340046	55.93	ppb		97
31) Chloroform	4.971	83	935356	56.96	ppb		99
32) 1,1,1-Trichloroethane	5.135	97	781279	58.70	ppb	#	100
33) Cyclohexane	5.212	56	683623	56.87	ppb		91
34) 1,1-Dichloropropylene	5.280	75	754325	57.33	ppb		91
36) Carbon Tetrachloride	5.283	117	586773	60.47	ppb		100
37) tert-Amyl alcohol (TAA)	5.460	59	417624	479.36	ppb	#	66
38) 1,2-Dichloroethane	5.508	62	761056	57.50	ppb		100
39) Benzene	5.463	78	2102614	55.26	ppb	#	88
40) tert-Amyl methyl ether...	5.582	73	1408519	53.24	ppb	#	99
42) Trichloroethylene	6.087	95	553299	51.96	ppb		91
43) Methyl Cyclohexane	6.321	83	1003330	52.25	ppb		93
44) Methyl Methacrylate	6.370	69	437320	50.76	ppb	#	99
45) Dibromomethane	6.415	93	328406	51.62	ppb	#	69
46) Bromodichloromethane	6.579	83	660006	52.32	ppb		98
47) 1,2-Dichloropropane	6.331	63	462368	49.36	ppb	#	85
48) 1,4-Dioxane	6.398	88	168531	1049.47	ppb	#	100
49) 2-Nitropropane	6.771	43	174845	52.74	ppb		98
50) 2-Chloroethyl vinyl ether	6.845	63	268472	52.08	ppb		99

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407296.D
Acq On : 6 Feb 2020 9:50 am
Operator : SS
Sample : SEQ-CCV1
Misc : QBV5020620A
ALS Vial : 2 Sample Multiplier: 1

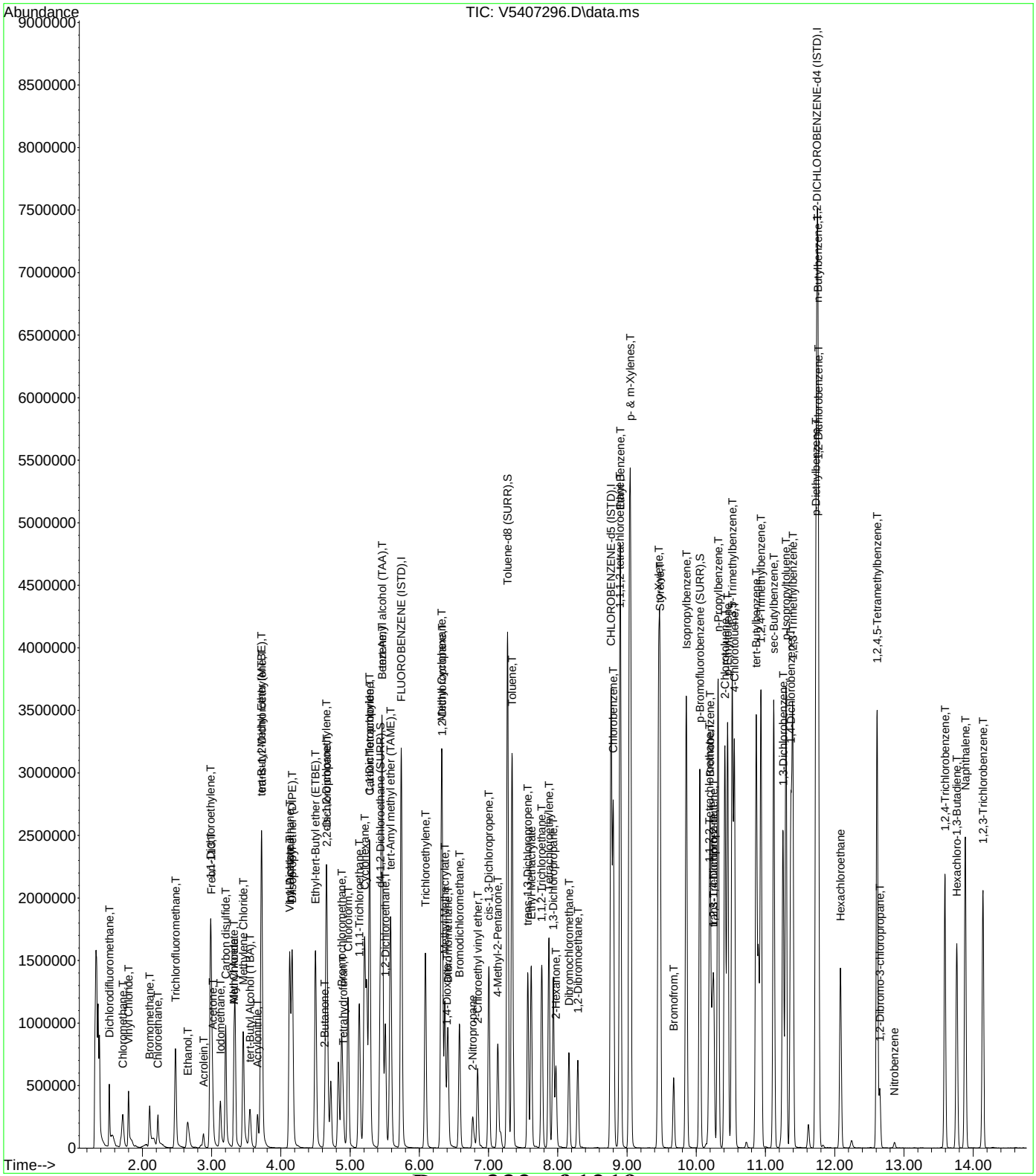
Quant Time: Feb 06 10:50:21 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) cis-1,3-Dichloropropene	7.003	75	848370	50.97	ppb		97
52) 4-Methyl-2-Pentanone	7.132	43	492389	51.23	ppb		90
54) Toluene	7.341	91	2376273	51.13	ppb		100
55) trans-1,3-Dichloropropene	7.566	75	770771	50.95	ppb	#	91
56) Ethyl Methacrylate	7.617	69	789748	51.70	ppb		87
57) 1,1,2-Trichloroethane	7.765	97	501658	51.63	ppb		97
58) 1,3-Dichloropropane	7.935	76	868117	50.44	ppb	#	100
59) Tetrachloroethylene	7.871	166	487162	51.23	ppb	#	99
60) 2-Hexanone	7.974	43	375405	52.58	ppb		91
61) Dibromochloromethane	8.160	129	381974	48.27	ppb		98
62) 1,2-Dibromoethane	8.289	107	489619	52.51	ppb		98
63) Chlorobenzene	8.800	112	1433799	51.94	ppb		97
64) 1,1,1,2-tetrachloroethane	8.894	131	412976	53.64	ppb		98
65) Ethyl Benzene	8.903	91	2733821	52.73	ppb		99
66) p- & m-Xylenes	9.045	91	4419052	107.08	ppb		98
67) o-Xylene	9.456	91	2248322	52.81	ppb		99
68) Styrene	9.476	104	1696088	53.15	ppb		99
69) Bromofrom	9.675	173	237609	46.45	ppb	#	77
71) p-Ethyltoluene	10.453	105	2378445	51.67	ppb	#	99
72) Isopropylbenzene	9.858	105	2693277	50.81	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.186	83	670869	47.54	ppb		99
75) Bromobenzene	10.202	77	1105396	48.46	ppb		97
76) trans-1,4-Dichloro-2-b...	10.250	75	868272	47.69	ppb		95
77) 1,2,3-Trichloropropane	10.250	110	222222	50.87	ppb		97
78) n-Propylbenzene	10.318	91	3263951	50.65	ppb		97
79) 2-Chlorotoluene	10.414	91	2020711	48.55	ppb		98
80) 4-Chlorotoluene	10.549	91	2338648	50.27	ppb		98
81) 1,3,5-Trimethylbenzene	10.520	105	2257719	50.97	ppb		95
82) tert-Butylbenzene	10.868	119	1994333	50.87	ppb		92
83) 1,2,4-Trimethylbenzene	10.935	105	2253457	50.98	ppb		96
84) sec-Butylbenzene	11.119	105	2657822	50.52	ppb		97
85) 1,3-Dichlorobenzene	11.254	146	1020439	51.07	ppb		95
86) p-Isopropyltoluene	11.295	119	2254859	51.07	ppb		96
87) 1,4-Dichlorobenzene	11.369	146	1044970	51.25	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	2191574	51.47	ppb		96
89) p-Diethylbenzene	11.726	105	1204934	51.99	ppb		93
90) 1,2-Dichlorobenzene	11.765	146	964385	50.92	ppb	#	100
91) n-Butylbenzene	11.755	91	2252851m	48.79	ppb		
92) Hexachloroethane	12.083	117	252120	48.03	ppb		97
93) 1,2-Dibromo-3-chloropr...	12.652	75	139753	43.28	ppb	#	100
94) Nitrobenzene	12.861	77	23719	38.41	ppb		96
95) 1,2,4,5-Tetramethylben...	12.614	119	2028632	52.87	ppb		96
96) 1,2,4-Trichlorobenzene	13.594	180	674047	52.50	ppb		97
97) Hexachloro-1,3-Butadiene	13.765	225	328162	52.88	ppb		98
98) Naphthalene	13.887	128	1953381	51.67	ppb		100
99) 1,2,3-Trichlorobenzene	14.141	180	631235	51.71	ppb		98

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407296.D
Acq On : 6 Feb 2020 9:50 am
Operator : SS
Sample : SEQ-CCV1
Misc : QBV5020620A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 06 10:50:21 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	QVOA9	Calibration:	YB00013
Lab File ID:	QV910064.D	Calibration Date:	01/30/20 12:14
Sequence:	Y0B0703	Injection Date:	02/07/20
Lab Sample ID:	Y0B0703-CCV1	Injection Time:	00:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	10.4	0.2626563	0.2731423		4.0	20	
1,1,1-Trichloroethane	A	10.0	11.5	1.942279	2.230742	0.1	14.9	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.08	0.5782807	0.5248221	0.3	-9.2	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.63	0.92421	0.8903538	0.1	-3.7	20	
1,1,2-Trichloroethane	A	10.0	9.48	0.1793628	0.1700214	0.1	-5.2	20	
1,1-Dichloroethane	A	10.0	10.4	1.890196	1.963257	0.2	3.9	20	
1,1-Dichloroethylene	A	10.0	10.6	1.599622	1.687683	0.1	5.5	20	
1,2,3-Trichlorobenzene	A	10.0	6.91	0.4450668	0.3074354		-30.9	20	*
1,2,3-Trichloropropane	A	10.0	9.67	0.1895052	0.1833303		-3.3	20	
1,2,4-Trichlorobenzene	A	10.0	7.59	0.6527683	0.4953535	0.2	-24.1	20	*
1,2,4-Trimethylbenzene	A	10.0	10.1	3.71593	3.767079		1.4	20	
1,2-Dibromo-3-chloropropane	A	10.0	9.94	0.1141493	0.1134465	0.05	-0.6	20	
1,2-Dibromoethane	A	10.0	9.66	0.1718547	0.165988	0.1	-3.4	20	
1,2-Dichlorobenzene	A	10.0	9.79	1.412668	1.382526	0.4	-2.1	20	
1,2-Dichloroethane	A	10.0	11.4	1.451742	1.662497	0.1	14.5	20	
1,2-Dichloropropane	A	10.0	9.49	0.2540118	0.2409766	0.1	-5.1	20	
1,3,5-Trimethylbenzene	A	10.0	10.1	3.728177	3.781738		1.4	20	
1,3-Dichlorobenzene	A	10.0	9.94	1.672471	1.661997	0.6	-0.6	20	
1,4-Dichlorobenzene	A	10.0	9.72	1.674915	1.627727	0.5	-2.8	20	
1,4-Dioxane	Q	200	138	9.199338E-04	7.385886E-04		-30.8	20	*
2-Butanone	Q	10.0	8.39	6.804854E-02	5.489985E-02	0.1	-16.1	20	
2-Hexanone	A	10.0	8.50	8.865295E-02	7.538988E-02	0.1	-15.0	20	
4-Methyl-2-pentanone	A	10.0	8.81	0.1264205	0.1113285	0.1	-11.9	20	
Acetone	Q	10.0	9.55	0.1719045	0.134863	0.1	-4.5	20	
Acrolein	A	10.0	8.03	6.140417E-02	4.929783E-02		-19.7	20	
Acrylonitrile	Q	10.0	13.8	2.209029E-02	3.236897E-02		38.1	20	*
Benzene	A	10.0	10.1	4.117316	4.156013	0.5	0.9	20	
Bromochloromethane	A	10.0	10.5	0.6183121	0.6515693		5.4	20	
Bromodichloromethane	A	10.0	10.3	0.3600959	0.371582	0.2	3.2	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	QVOA9	Calibration:	YB00013
Lab File ID:	QV910064.D	Calibration Date:	01/30/20 12:14
Sequence:	Y0B0703	Injection Date:	02/07/20
Lab Sample ID:	Y0B0703-CCV1	Injection Time:	00:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	10.5	0.1111956	0.1167945	0.1	5.0	20	
Bromomethane	Q	10.0	16.3	7.673677E-02	9.328524E-02	0.1	63.4	20	*
Carbon disulfide	A	10.0	9.84	2.329285	2.292196	0.1	-1.6	20	
Carbon tetrachloride	A	10.0	12.0	1.623292	1.951838	0.1	20.2	20	*
Chlorobenzene	A	10.0	10.1	0.7580712	0.7628985	0.5	0.6	20	
Chloroethane	A	10.0	12.1	0.4406612	0.5348016	0.1	21.4	20	*
Chloroform	A	10.0	10.7	2.009414	2.146128	0.2	6.8	20	
Chloromethane	A	10.0	8.44	0.4179282	0.3525439	0.1	-15.6	20	
cis-1,2-Dichloroethylene	A	10.0	10.2	1.770717	1.802425	0.1	1.8	20	
cis-1,3-Dichloropropylene	A	10.0	9.60	0.3929089	0.3771395	0.2	-4.0	20	
Cyclohexane	A	10.0	10.1	3.906782	3.938608	0.1	0.8	20	
Dibromochloromethane	A	10.0	10.4	0.219416	0.2279998	0.1	3.9	20	
Dibromomethane	A	10.0	10.1	0.1263242	0.1277369		1.1	20	
Dichlorodifluoromethane	A	10.0	12.1	1.059671	1.286072	0.1	21.4	20	*
Ethyl Benzene	A	10.0	10.3	1.366456	1.40876	0.1	3.1	20	
Hexachlorobutadiene	A	10.0	7.96	0.2859033	0.2276825		-20.4	20	*
Isopropylbenzene	A	10.0	9.80	4.46782	4.37637	0.1	-2.0	20	
Methyl acetate	A	10.0	8.43	0.3370801	0.2842913	0.1	-15.7	20	
Methyl tert-butyl ether (MTBE)	A	10.0	10.6	2.595412	2.749582	0.1	5.9	20	
Methylcyclohexane	A	10.0	9.28	0.429389	0.3982782	0.1	-7.2	20	
Methylene chloride	A	10.0	10.5	1.110498	1.162812	0.1	4.7	20	
n-Butylbenzene	A	10.0	9.91	3.760126	3.726322		-0.9	20	
n-Propylbenzene	A	10.0	10.0	5.104439	5.125353		0.4	20	
o-Xylene	A	10.0	10.5	1.109656	1.163116	0.3	4.8	20	
p- & m- Xylenes	A	20.0	20.8	1.096182	1.138521	0.1	3.9	20	
p-Isopropyltoluene	A	10.0	10.3	3.663365	3.781301		3.2	20	
sec-Butylbenzene	A	10.0	9.91	4.094698	4.059439		-0.9	20	
Styrene	A	10.0	10.3	0.7990676	0.8263393	0.3	3.4	20	
tert-Butyl alcohol (TBA)	A	10.0	8.62	6.449945E-02	5.437802E-02		-15.7	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	QVOA9	Calibration:	YB00013
Lab File ID:	QV910064.D	Calibration Date:	01/30/20 12:14
Sequence:	Y0B0703	Injection Date:	02/07/20
Lab Sample ID:	Y0B0703-CCV1	Injection Time:	00:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	9.88	3.464617	3.421597		-1.2	20	
Tetrachloroethylene	A	10.0	10.4	0.3109515	0.3241941	0.2	4.3	20	
Toluene	A	10.0	9.70	1.167984	1.133439	0.4	-3.0	20	
trans-1,2-Dichloroethylene	A	10.0	10.5	1.481388	1.556534	0.1	5.1	20	
trans-1,3-Dichloropropylene	A	10.0	10.0	0.3320837	0.3324863	0.1	0.1	20	
trans-1,4-dichloro-2-butene	Q	10.0	11.8	3.435383E-02	3.773726E-02		18.2	20	
Trichloroethylene	A	10.0	9.66	0.2876364	0.2777811	0.2	-3.4	20	
Trichlorofluoromethane	A	10.0	12.4	1.658882	2.055452	0.1	23.9	20	*
Vinyl Chloride	A	10.0	12.3	0.7438673	0.9153096	0.1	23.0	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\1\data\020620A\
Data File : QV910064.D
Acq On : 7 Feb 2020 12:39 am
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV90020620A
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 07 08:48:58 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.787	70	65155	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.838	117	284123	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.826	152	93727	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.470	65	96178	10.80	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.00%				
51) Toluene-d8 (SURR)	7.333	98	353496	9.51	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.10%				
70) p-Bromofluorobenzene (...	10.126	95	154329	9.91	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 99.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	83794	12.14	ppb	#	1
3) Chloromethane	1.765	50	22970	8.44	ppb		90
4) Vinyl Chloride	1.844	62	59637	12.30	ppb	#	98
5) Bromomethane	2.160	94	6078	16.34	ppb		97
6) Chloroethane	2.271	64	34845	12.14	ppb	#	20
7) Trichlorofluoromethane	2.530	101	133923	12.39	ppb	#	20
8) Ethanol	2.660	45	7495m	478.96	ppb		
9) Freon-113	3.044	101	58011	9.63	ppb	#	1
10) 1,1-Dichloroethylene	3.026	61	109961	10.55	ppb	#	85
11) Acrolein	2.907	56	3212	8.03	ppb	#	1
12) Acetone	3.038	43	8787	9.55	ppb	#	1
13) Iodomethane	3.169	142	4506	7.55	ppb	#	66
14) Methyl Acetate	3.349	43	18523	8.43	ppb	#	1
15) Carbon disulfide	3.262	76	149348	9.84	ppb	#	20
16) tert-Butyl Alcohol (TBA)	3.561	59	3543	8.62	ppb	#	1
17) Methylene Chloride	3.486	49	75763	10.47	ppb	#	77
18) Acrylonitrile	3.759	53	2109	13.81	ppb	#	1
19) trans-1,2-Dichloroethy...	3.768	61	101416	10.51	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.759	73	179149	10.59	ppb	#	94
21) 1,1-Dichloroethane	4.163	63	127916	10.39	ppb	#	99
22) Vinyl Acetate	4.154	43	51354	7.71	ppb	#	1
23) Diisopropyl ether (DIPE)	4.212	45	170651	10.03	ppb	#	51
24) Ethyl-tert-Butyl ether...	4.549	59	219762	10.73	ppb	#	98
25) cis-1,2-Dichloroethylene	4.692	61	117437	10.18	ppb	#	80
26) 2-Butanone	4.654	72	3577	8.39	ppb	#	1
27) 2,2-Dichloropropane	4.709	77	94081	8.51	ppb	#	87
28) Tetrahydrofuran	4.939	42	7486	9.08	ppb	#	1
29) Bromochloromethane	4.910	49	42453	10.54	ppb	#	45
30) Chloroform	5.003	83	139831	10.68	ppb	#	85
31) 1,1,1-Trichloroethane	5.183	97	145344	11.49	ppb	#	55
32) Cyclohexane	5.287	56	256620	10.08	ppb	#	82
33) 1,1-Dichloropropylene	5.328	75	99995	10.28	ppb	#	96
35) Carbon Tetrachloride	5.345	117	127172	12.02	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.476	59	28929	93.48	ppb	#	1
37) 1,2-Dichloroethane	5.543	62	108320	11.45	ppb	#	100
38) Benzene	5.511	78	270785	10.09	ppb	#	94
39) tert-Amyl methyl ether...	5.636	73	182233	10.55	ppb	#	1
41) Trichloroethylene	6.145	95	78924	9.66	ppb	#	74
42) Methyl Cyclohexane	6.397	83	113160	9.28	ppb	#	45
43) Methyl Methacrylate	6.406	69	53513	9.05	ppb	#	96
44) Dibromomethane	6.456	93	36293	10.11	ppb	#	89
45) Bromodichloromethane	6.621	83	105575	10.32	ppb	#	97
46) 1,2-Dichloropropane	6.374	63	68467	9.49	ppb	#	88
47) 1,4-Dioxane	6.441	88	4197m	138.34	ppb		
48) 2-Chloroethyl vinyl ether	6.886	63	18104	7.45	ppb	#	1
49) cis-1,3-Dichloropropene	7.051	75	107154	9.60	ppb	#	89
50) 4-Methyl-2-Pentanone	7.165	43	31631	8.81	ppb	#	76

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910064.D
Acq On : 7 Feb 2020 12:39 am
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV90020620A
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 07 08:48:58 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

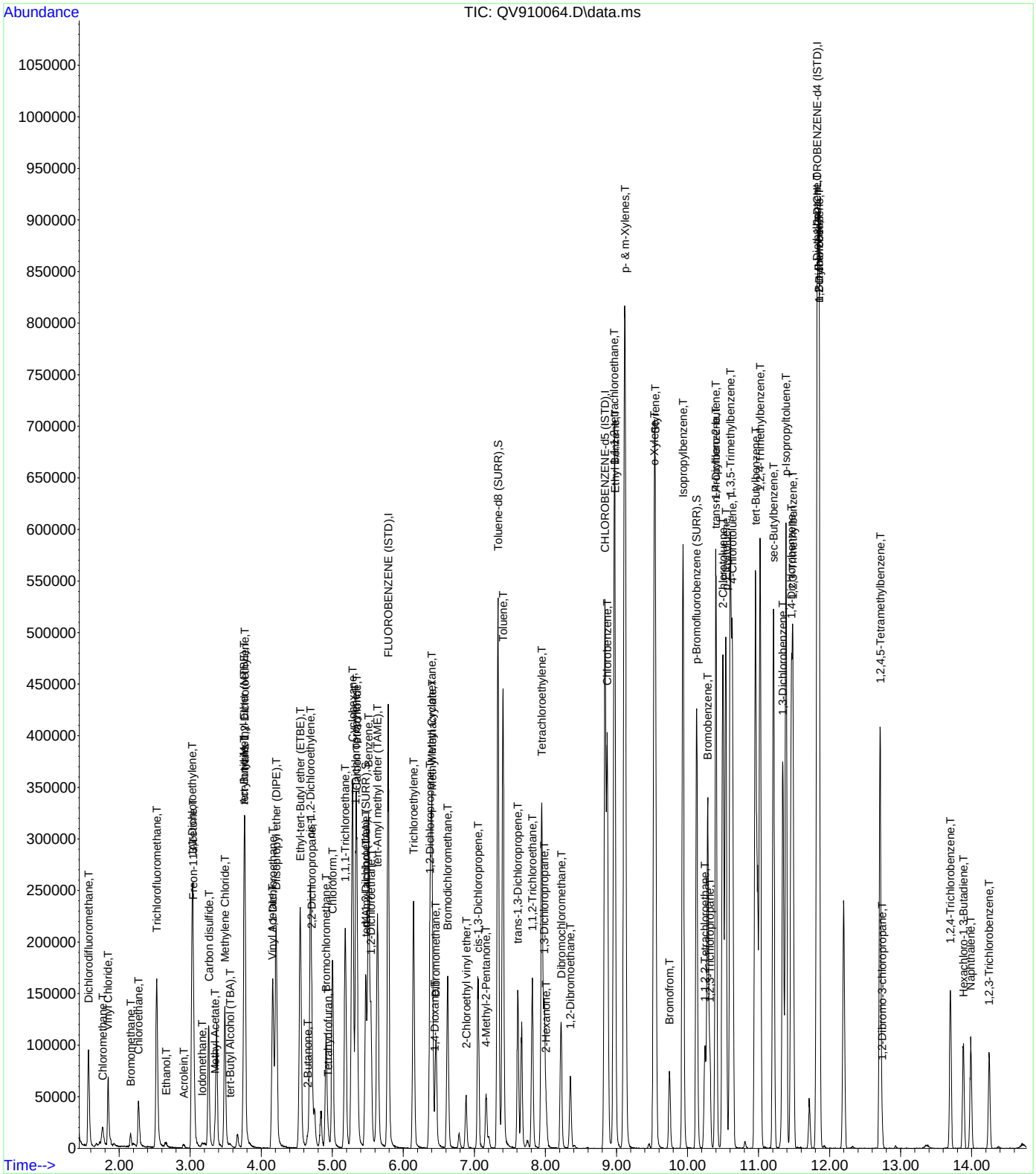
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Toluene	7.403	91	322036	9.70	ppb		99
53) trans-1,3-Dichloropropene	7.609	75	94467	10.01	ppb	#	98
54) 1,1,2-Trichloroethane	7.816	97	48307	9.48	ppb	#	1
55) 1,3-Dichloropropane	7.984	76	87441	9.76	ppb	#	70
56) Tetrachloroethylene	7.949	166	92111	10.43	ppb	#	100
57) 2-Hexanone	8.010	43	21420	8.50	ppb	#	1
58) Dibromochloromethane	8.222	129	64780	10.39	ppb	#	87
59) 1,2-Dibromoethane	8.350	107	47161	9.66	ppb		92
60) Chlorobenzene	8.870	112	216757	10.06	ppb	#	87
61) 1,1,1,2-tetrachloroethane	8.966	131	77606	10.40	ppb	#	51
62) Ethyl Benzene	8.981	91	400261	10.31	ppb		95
63) p- & m-Xylenes	9.120	91	646960	20.77	ppb		92
64) o-Xylene	9.530	91	330468	10.48	ppb		96
65) Styrene	9.547	104	234782	10.34	ppb	#	82
66) Bromofrom	9.745	173	33184	10.50	ppb	#	81
68) p-Ethyltoluene	10.538	105	335936	9.09	ppb	#	97
69) Isopropylbenzene	9.937	105	410184	9.80	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.242	83	49190	9.08	ppb	#	65
72) Bromobenzene	10.283	77	153898	9.45	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.399	75	3537m	11.82	ppb		
74) 1,2,3-Trichloropropane	10.315	110	17183	9.67	ppb	#	1
75) n-Propylbenzene	10.396	91	480384	10.04	ppb	#	89
76) 2-Chlorotoluene	10.498	91	288686	9.85	ppb		98
77) 4-Chlorotoluene	10.631	91	341477	10.06	ppb		95
78) 1,3,5-Trimethylbenzene	10.602	105	354451	10.14	ppb	#	60
79) tert-Butylbenzene	10.957	119	320696	9.88	ppb	#	94
80) 1,2,4-Trimethylbenzene	11.021	105	353077	10.14	ppb		93
81) sec-Butylbenzene	11.210	105	380479	9.91	ppb	#	91
82) 1,3-Dichlorobenzene	11.340	146	155774	9.94	ppb	#	90
83) p-Isopropyltoluene	11.387	119	354410	10.32	ppb		93
84) 1,4-Dichlorobenzene	11.463	146	152562m	9.72	ppb		
85) 1,2,3-Trimethylbenzene	11.483	105	278260	8.72	ppb	#	90
86) p-Diethylbenzene	11.823	105	158089	9.34	ppb	#	51
87) 1,2-Dichlorobenzene	11.852	146	129580	9.79	ppb	#	100
88) n-Butylbenzene	11.849	91	349257	9.91	ppb	#	91
89) 1,2-Dibromo-3-chloropr...	12.738	75	10633	9.94	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.712	119	235918	8.88	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.700	180	46428	7.59	ppb	#	8
92) Hexachloro-1,3-Butadiene	13.886	225	21340	7.96	ppb	#	61
93) Naphthalene	13.988	128	85389	6.81	ppb	#	95
94) 1,2,3-Trichlorobenzene	14.244	180	28815	6.91	ppb	#	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910064.D
Acq On : 7 Feb 2020 12:39 am
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV90020620A
ALS Vial : 30 Sample Multiplier: 1

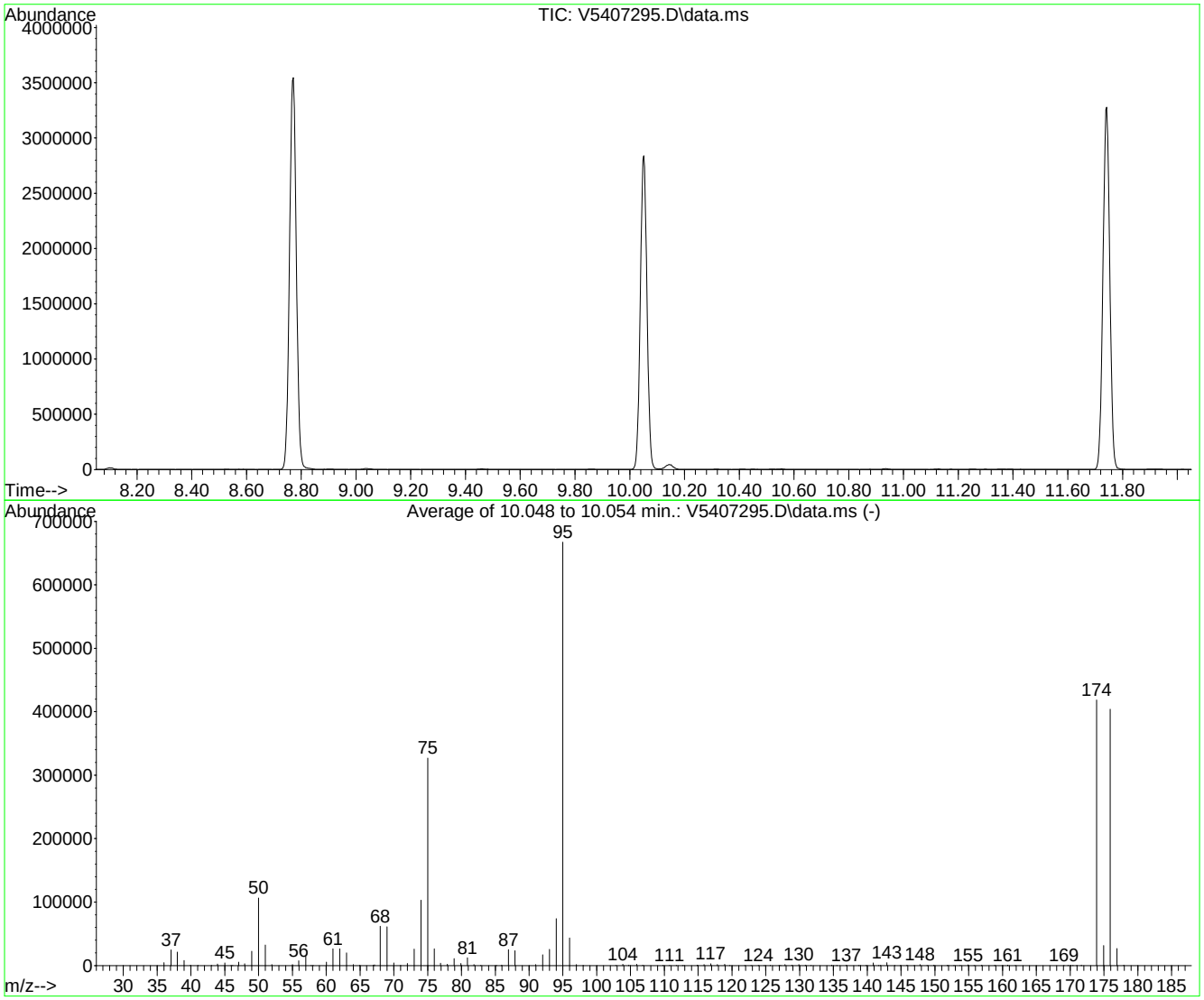
Quant Time: Feb 07 08:48:58 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407295.D
Acq On : 6 Feb 2020 9:18 am
Operator : SS
Sample : SEQ-TUN1
Misc : QBV5020620A
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p
InstName : VOA No. 5

Method : C:\msdchem\1\methods\V5C00226.M
Title : Volatile Organics EPA 8260C-SOIL
Last Update : Mon Dec 30 11:12:06 2019



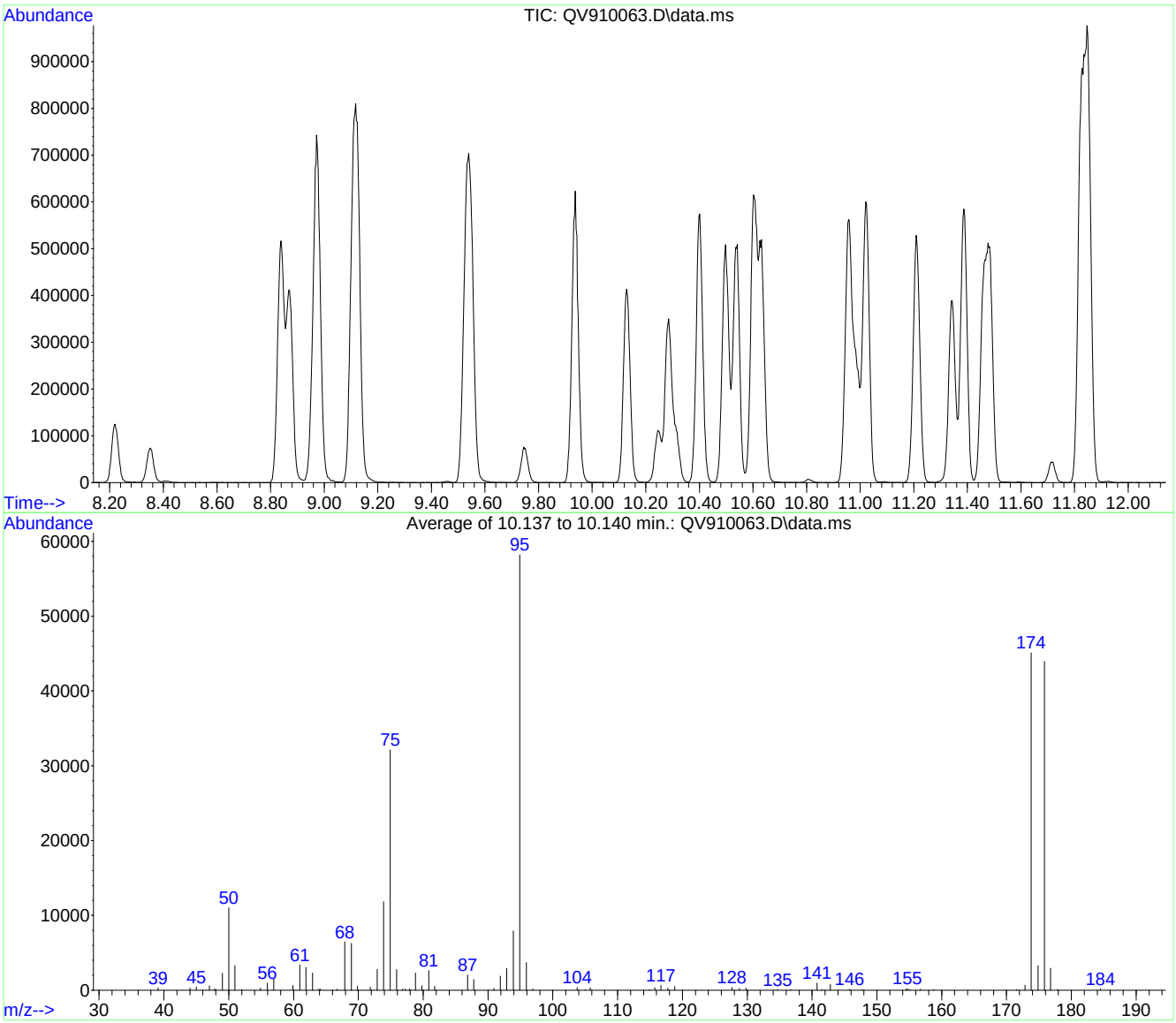
AutoFind: Scans 2788, 2789, 2790; Background Corrected with Scan 2772

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	106523	PASS
75	95	30	60	49.0	326912	PASS
95	95	100	100	100.0	667157	PASS
96	95	5	9	6.5	43400	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.8	418752	PASS
175	174	5	9	7.6	31632	PASS
176	174	95	101	96.5	403925	PASS
177	176	5	9	6.6	26664	PASS

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910063.D
Acq On : 7 Feb 2020 12:12 am
Operator : LLJ
Misc : QBQV90020620A
Sample : SEQ-TUN1 Inst : QVOA9
ALS Vial : 29 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VQ9LO022.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Fri Jan 31 12:07:11 2020



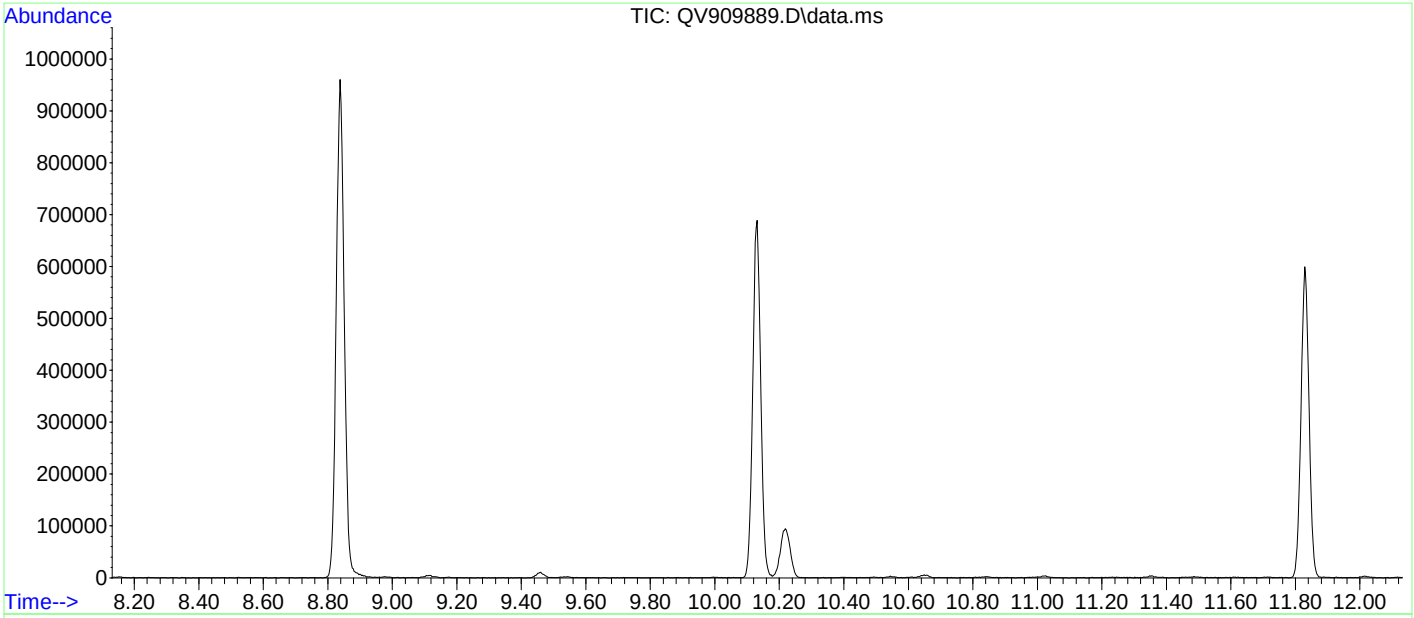
Spectrum Information: Average of 10.137 to 10.140 min.

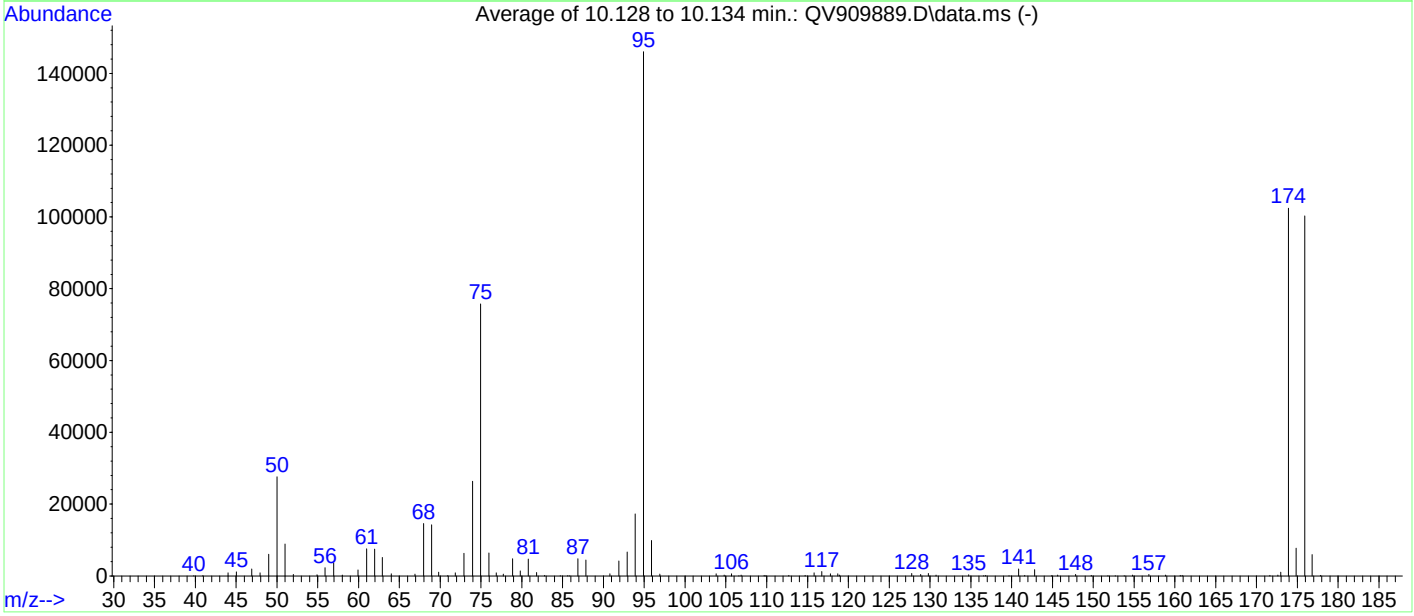
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	10994	PASS
75	95	30	60	55.2	32132	PASS
95	95	100	100	100.0	58208	PASS
96	95	5	9	6.3	3673	PASS
173	174	0.00	2	1.5	668	PASS
174	95	50	100	77.5	45108	PASS
175	174	5	9	7.2	3257	PASS
176	174	95	101	97.5	43964	PASS
177	176	5	9	6.7	2928	PASS

Data Path : C:\msdchem\1\data\013020A\
Data File : QV909889.D
Acq On : 30 Jan 2020 2:36 pm
Operator : LLJ
Misc : QBQV90013020A
Sample : SEQ-TUN1 Inst : QVOA9
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VQ9LO022.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Fri Jan 31 12:07:11 2020





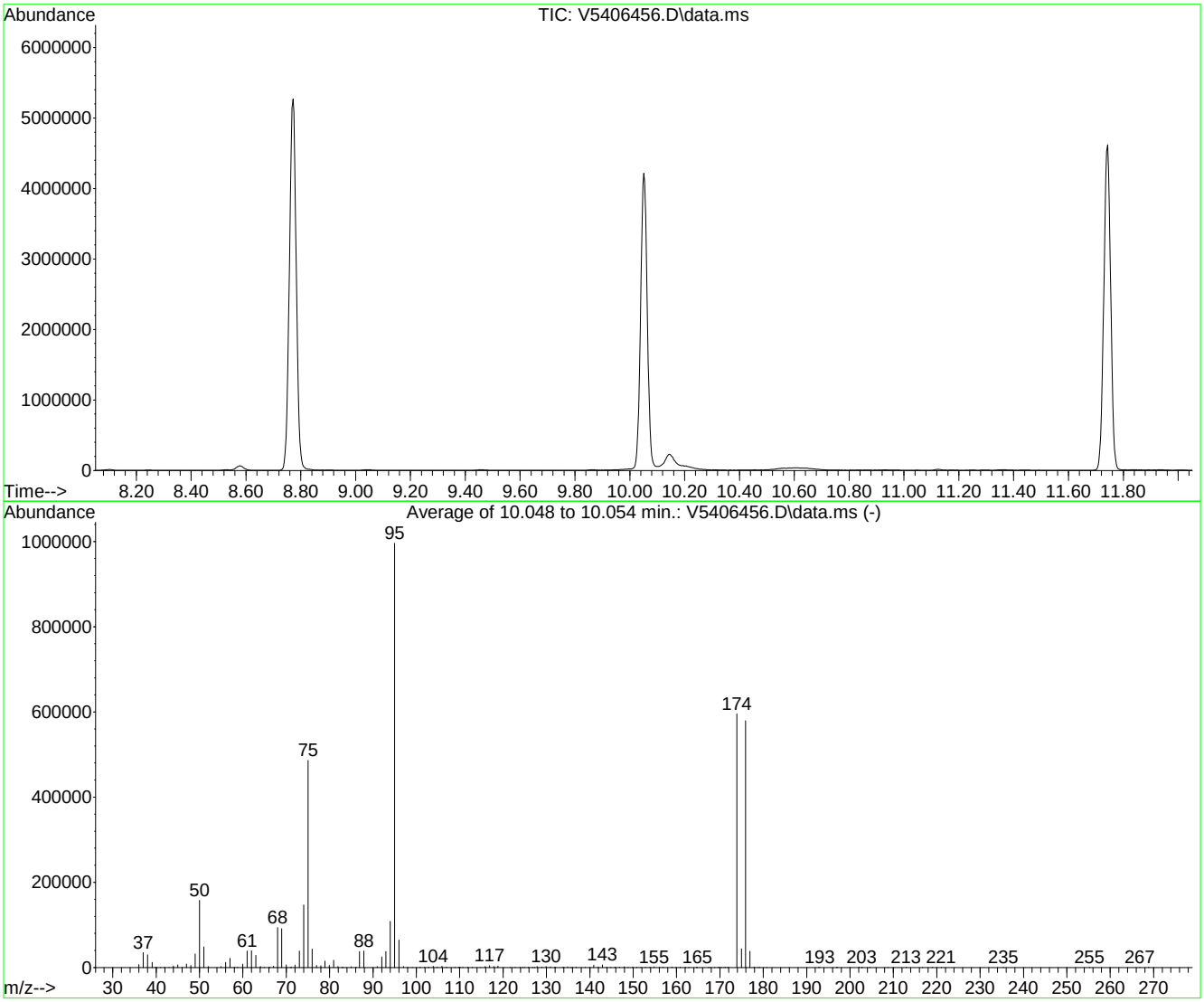
Spectrum Information: Average of 10.128 to 10.134 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	27611	PASS
75	95	30	60	51.9	75784	PASS
95	95	100	100	100.0	146005	PASS
96	95	5	9	6.8	9856	PASS
173	174	0.00	2	1.1	1078	PASS
174	95	50	100	70.2	102443	PASS
175	174	5	9	7.6	7741	PASS
176	174	95	101	97.9	100256	PASS
177	176	5	9	5.9	5903	PASS

Data Path : C:\msdchem\1\data\V5122219\
Data File : V5406456.D
Acq On : 22 Dec 2019 3:44 pm
Operator : SS
Sample : SEQ-TUN1
Misc : QBV5122219A
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p
InstName : VOA No. 5

Method : C:\msdchem\1\methods\V5C00225.M
Title : Volatile Organics EPA 8260C-SOIL
Last Update : Mon Nov 18 10:00:52 2019



AutoFind: Scans 2788, 2789, 2790; Background Corrected with Scan 2772

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	157483	PASS
75	95	30	60	48.8	486272	PASS
95	95	100	100	100.0	995776	PASS
96	95	5	9	6.5	64507	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	59.8	595541	PASS
175	174	5	9	7.3	43640	PASS
176	174	95	101	97.3	579392	PASS
177	176	5	9	6.6	38323	PASS

METHOD BLANK RAW DATA

SDG: 20B0093
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Water	Laboratory ID:	BB00136-BLK1	File ID:	QV910068.D
Prepared:	02/05/20 19:08	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	02/07/20 02:26	Instrument:	QVOA9		
Batch:	BB00136	Sequence:	Y0B0703	Calibration:	YB00013

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:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Water	Laboratory ID:	BB00136-BLK1	File ID:	QV910068.D
Prepared:	02/05/20 19:08	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	02/07/20 02:26	Instrument:	QVOA9		
Batch:	BB00136	Sequence:	Y0B0703	Calibration:	YB00013

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:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Water	Laboratory ID:	BB00136-BLK1	File ID:	QV910068.D
Prepared:	02/05/20 19:08	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	02/07/20 02:26	Instrument:	QVOA9		
Batch:	BB00136	Sequence:	Y0B0703	Calibration:	YB00013

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	11.0	110	69 - 130	
SURR: Toluene-d8	10.0	9.56	95.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	72028	5.787	65155	5.787	
ISTD: Chlorobenzene-d5	307766	8.835	284123	8.838	
ISTD: 1,2-Dichlorobenzene-d4	92140	11.831	93727	11.826	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910068.D
Acq On : 7 Feb 2020 2:26 am
Operator : LLJ
Sample : BB00136-BLK1
Misc : QBQV90020620A
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Feb 07 08:45:26 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

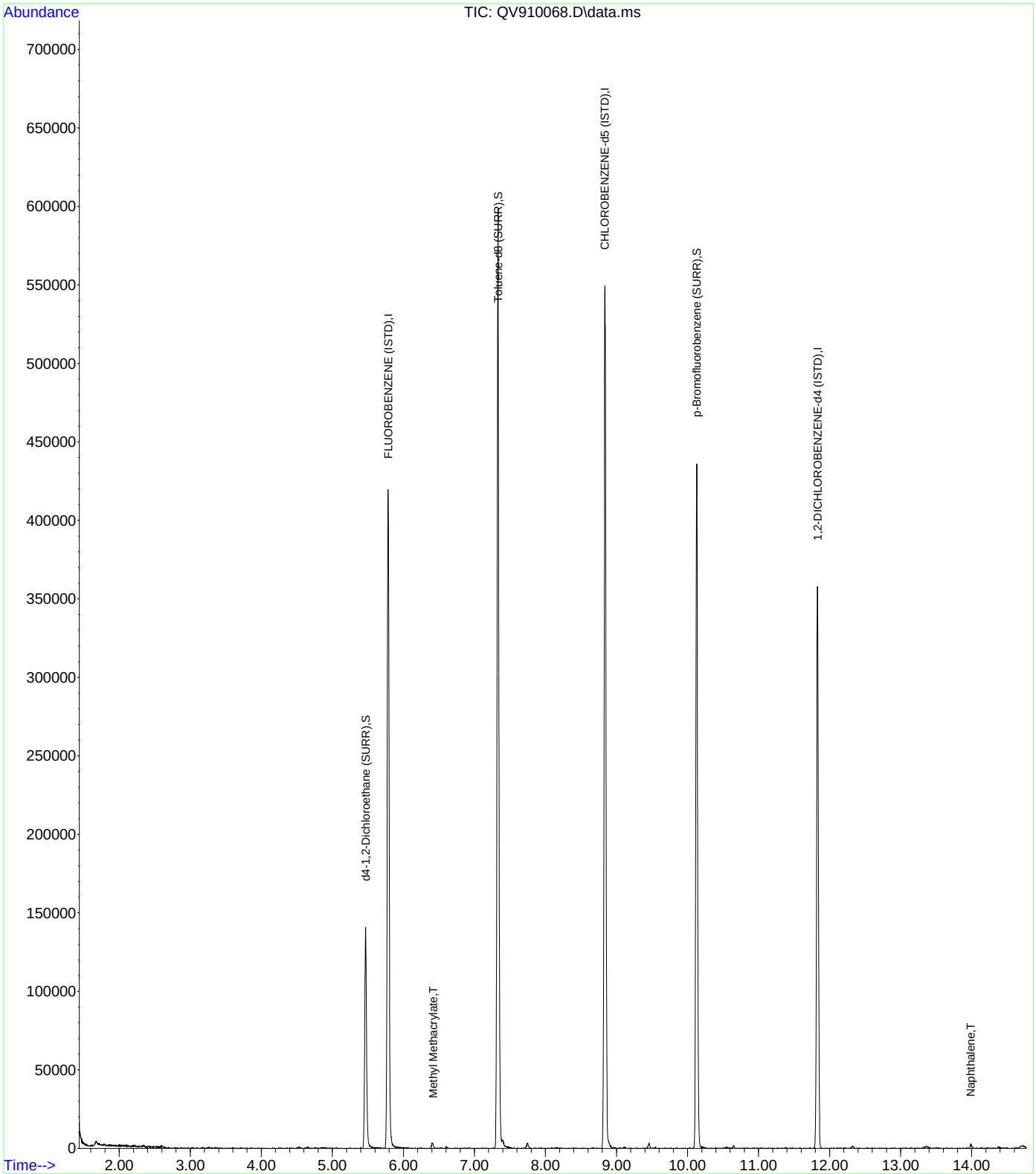
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.787	70	72028	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.835	117	307766	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.831	152	92140	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.470	65	108764	11.05	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 110.50%			
51) Toluene-d8 (SURR)	7.333	98	384890	9.56	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.60%			
70) p-Bromofluorobenzene (...	10.129	95	159455	10.41	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 104.10%			
Target Compounds						Qvalue
43) Methyl Methacrylate	6.421	69	1887	0.29	ppb	# 100
93) Naphthalene	13.985	128	2380	0.19	ppb	# 72

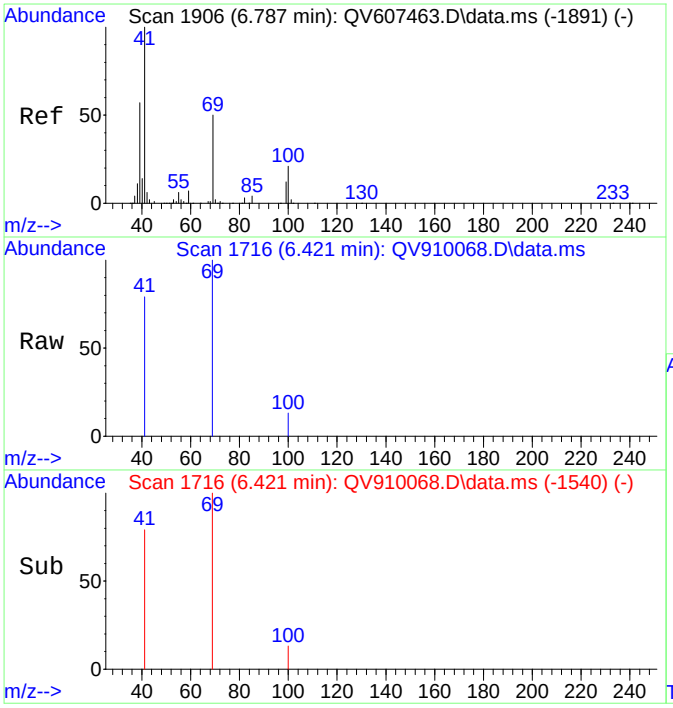
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910068.D
Acq On : 7 Feb 2020 2:26 am
Operator : LLJ
Sample : BB00136-BLK1
Misc : QBQV90020620A
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Feb 07 08:45:26 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

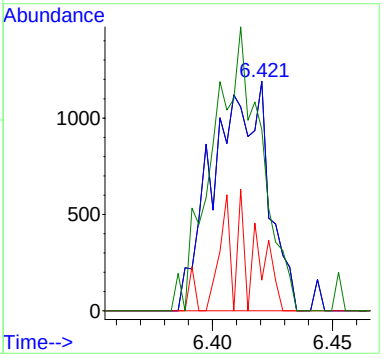


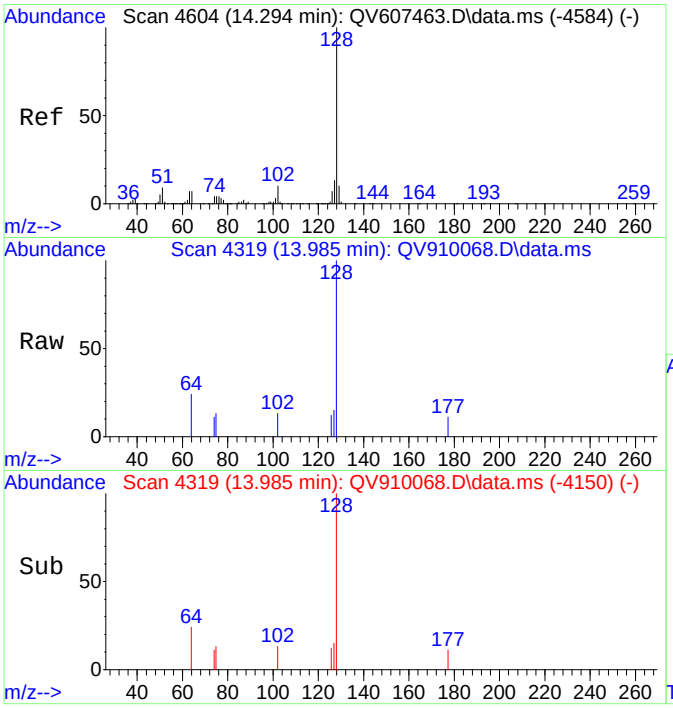


#43
Methyl Methacrylate
Concen: 0.29 ppb
RT: 6.421 min Scan# 1716
Delta R.T. 0.012 min
Lab File: QV910068.D
Acq: 7 Feb 2020 2:26 am

Tgt Ion: 69 Resp: 1887

Ion	Ratio	Lower	Upper
69	100		
69	100.0	80.0	120.0
100	9.8	4.7	14.0
41	109.2	0.0	0.0#

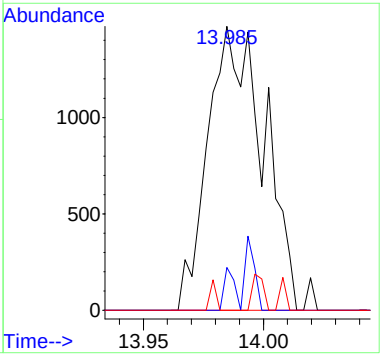




#93
Naphthalene
Concen: 0.19 ppb
RT: 13.985 min Scan# 4319
Delta R.T. -0.008 min
Lab File: QV910068.D
Acq: 7 Feb 2020 2:26 am

Tgt Ion:128 Resp: 2380

Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.0	18.6#
129	1.2	3.9	8.1#



METHOD BLANK RAW DATA

SDG: 20B0093
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK1	File ID:	V5407299.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:18	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethylene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
123-91-1	1,4-Dioxane	100	U
78-93-3	2-Butanone	5.0	U
591-78-6	2-Hexanone	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
67-64-1	Acetone	10	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	5.0	U
71-43-2	Benzene	5.0	U
74-97-5	Bromochloromethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK1	File ID:	V5407299.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:18	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
74-83-9	Bromomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	5.0	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	5.0	U
156-59-2	cis-1,2-Dichloroethylene	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	5.0	U
110-82-7	Cyclohexane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
100-41-4	Ethyl Benzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-20-9	Methyl acetate	5.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U
108-87-2	Methylcyclohexane	5.0	U
75-09-2	Methylene chloride	10	U
104-51-8	n-Butylbenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	p- & m- Xylenes	10	U
99-87-6	p-Isopropyltoluene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-65-0	tert-Butyl alcohol (TBA)	25	U
98-06-6	tert-Butylbenzene	5.0	U
127-18-4	Tetrachloroethylene	5.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK1	File ID:	V5407299.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:18	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
108-88-3	Toluene	5.0	U
156-60-5	trans-1,2-Dichloroethylene	5.0	U
10061-02-6	trans-1,3-Dichloropropylene	5.0	U
110-57-6	trans-1,4-dichloro-2-butene	5.0	U
79-01-6	Trichloroethylene	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
1330-20-7	Xylenes, Total	15	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.6	105	77 - 125	
SURR: Toluene-d8	50.0	47.0	93.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	48.0	96.1	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	562666	5.742	562365	5.739	
ISTD: Chlorobenzene-d5	2057454	8.771	2036727	8.768	
ISTD: 1,2-Dichlorobenzene-d4	890873	11.742	902270	11.742	

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407299.D
Acq On : 6 Feb 2020 11:18 am
Operator : SS
Sample : BB00232-BLK1
Misc : QBV5020620A
ALS Vial : 5 Sample Multiplier: 1

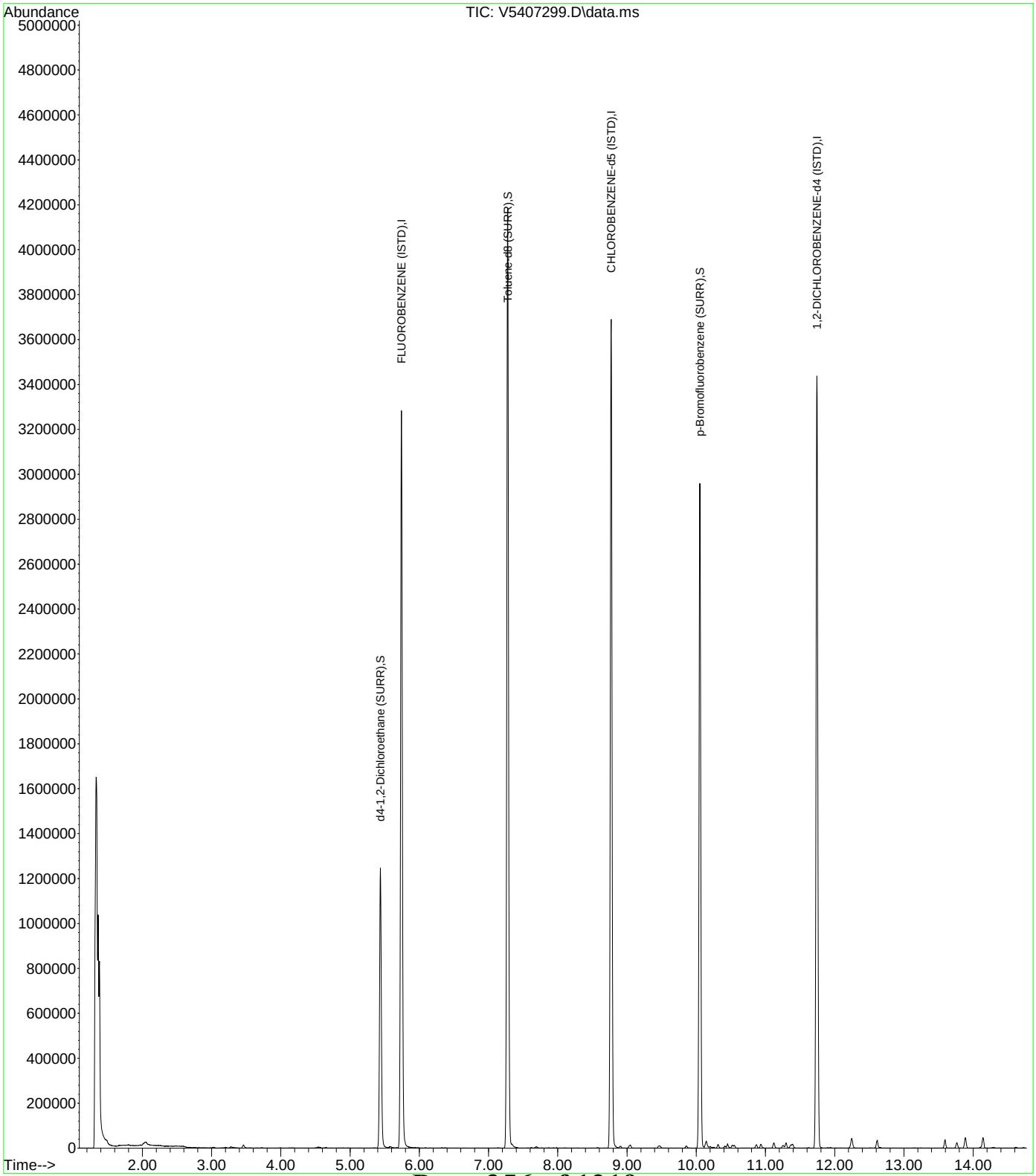
Quant Time: Feb 06 11:42:33 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

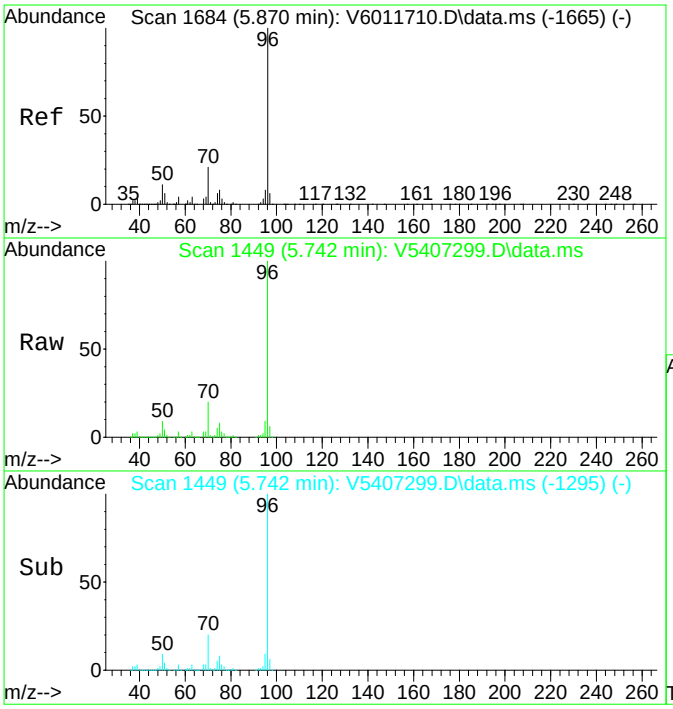
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.742	70	562666	50.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2057454	50.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	890873	50.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.437	65	868419	52.56	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.12%			
53) Toluene-d8 (SURR)	7.276	98	2844025	46.95	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.90%			
73) p-Bromofluorobenzene (...	10.051	95	1186797	48.05	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.10%			
Target Compounds						Qvalue

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407299.D
Acq On : 6 Feb 2020 11:18 am
Operator : SS
Sample : BB00232-BLK1
Misc : QBV5020620A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 06 11:42:33 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

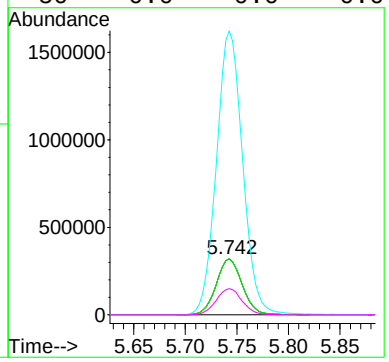


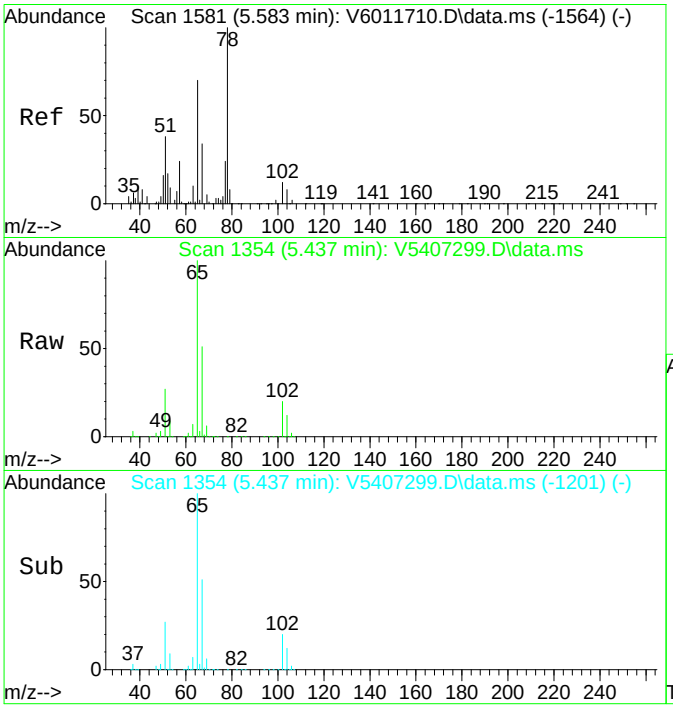


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.742 min Scan# 1449
Delta R.T. -0.004 min
Lab File: V5407299.D
Acq: 6 Feb 2020 11:18 am

Tgt Ion: 70 Resp: 562666

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	512.9	318.4	661.4
50	0.0	0.0	0.0

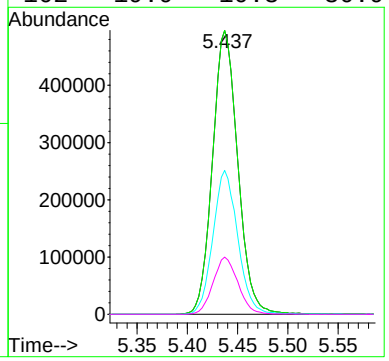


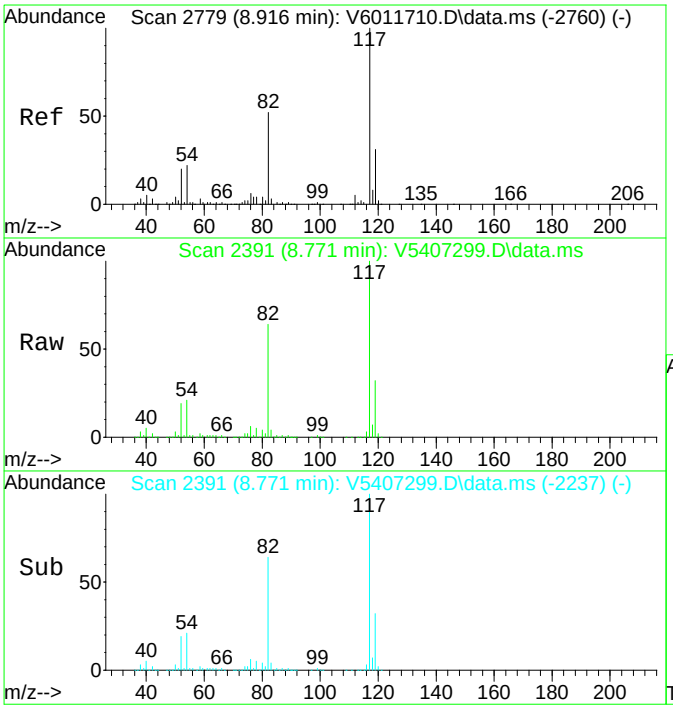


#35
d4-1,2-Dichloroethane (SURR)
Concen: 52.56 ppb
RT: 5.437 min Scan# 1354
Delta R.T. -0.007 min
Lab File: V5407299.D
Acq: 6 Feb 2020 11:18 am

Tgt Ion: 65 Resp: 868419

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.0	34.2	71.0
102	19.9	10.3	30.9

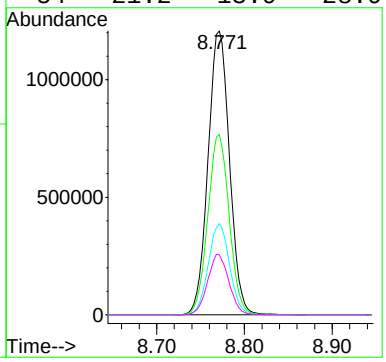


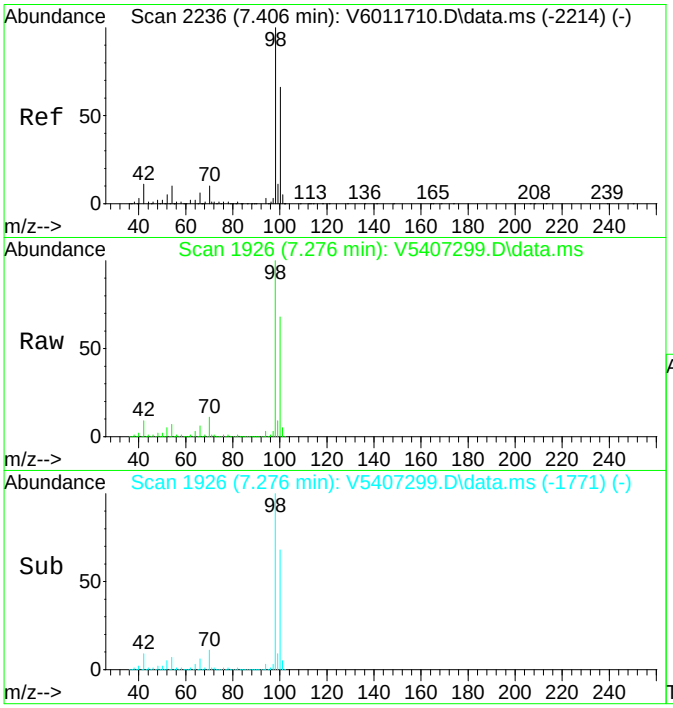


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.771 min Scan# 2391
Delta R.T. -0.004 min
Lab File: V5407299.D
Acq: 6 Feb 2020 11:18 am

Tgt Ion:117 Resp: 2057454

Ion	Ratio	Lower	Upper
117	100		
82	63.2	38.3	79.5
119	31.8	20.9	43.3
54	21.2	13.9	28.9

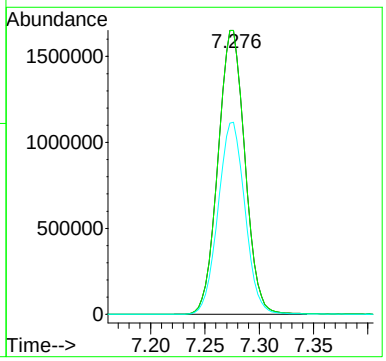


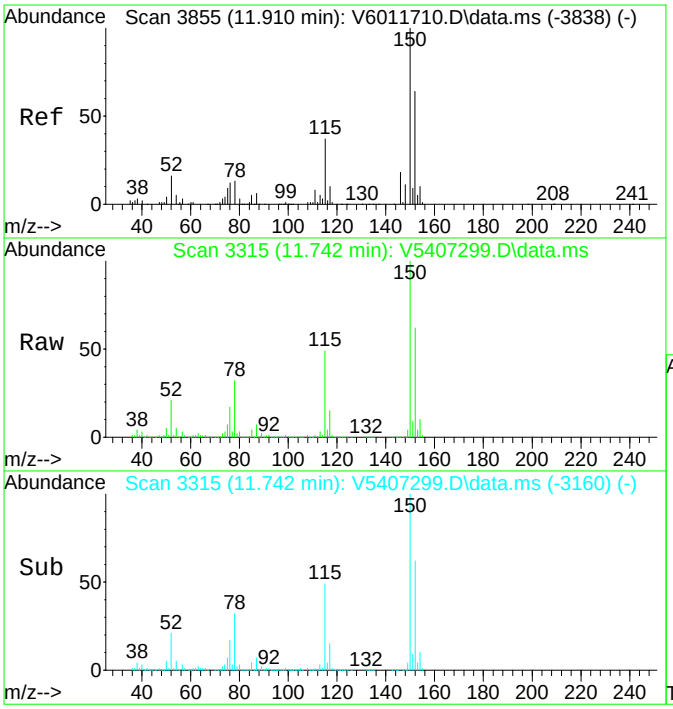


#53
Toluene-d8 (SURR)
Concen: 46.95 ppb
RT: 7.276 min Scan# 1926
Delta R.T. -0.000 min
Lab File: V5407299.D
Acq: 6 Feb 2020 11:18 am

Tgt Ion: 98 Resp: 2844025

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	67.8	43.0	89.4

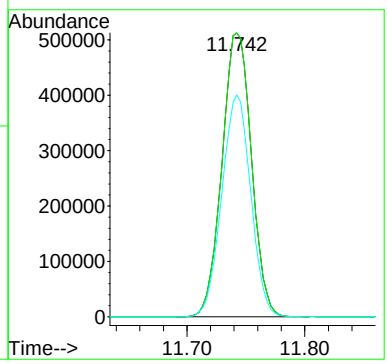


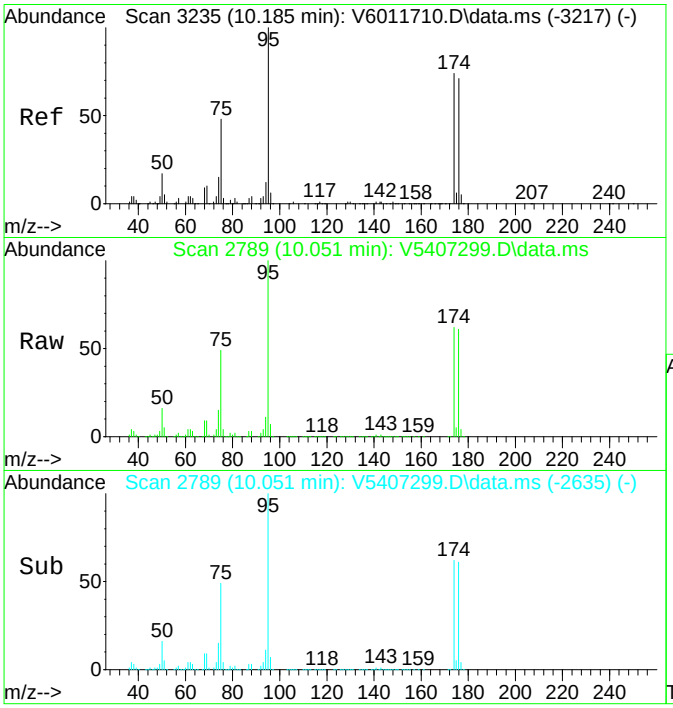


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.742 min Scan# 3315
Delta R.T. -0.000 min
Lab File: V5407299.D
Acq: 6 Feb 2020 11:18 am

Tgt Ion:152 Resp: 890873

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	76.9	44.9	134.7

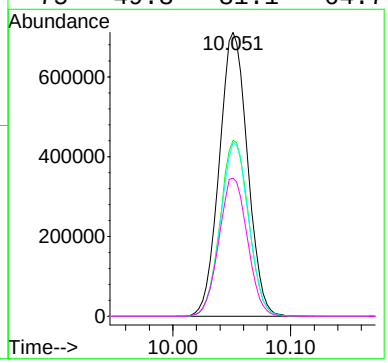




#73
p-Bromofluorobenzene (SURR)
Concen: 48.05 ppb
RT: 10.051 min Scan# 2789
Delta R.T. -0.003 min
Lab File: V5407299.D
Acq: 6 Feb 2020 11:18 am

Tgt Ion: 95 Resp: 1186797

Ion	Ratio	Lower	Upper
95	100		
174	62.4	42.8	88.8
176	61.1	41.3	85.7
75	49.3	31.1	64.7



FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK2	File ID:	V5407300.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:43	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
630-20-6	1,1,1,2-Tetrachloroethane	500	U
71-55-6	1,1,1-Trichloroethane	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	500	U
79-00-5	1,1,2-Trichloroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
75-35-4	1,1-Dichloroethylene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
96-18-4	1,2,3-Trichloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
106-93-4	1,2-Dibromoethane	500	U
95-50-1	1,2-Dichlorobenzene	500	U
107-06-2	1,2-Dichloroethane	500	U
78-87-5	1,2-Dichloropropane	500	U
108-67-8	1,3,5-Trimethylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
123-91-1	1,4-Dioxane	10000	U
78-93-3	2-Butanone	500	U
591-78-6	2-Hexanone	500	U
108-10-1	4-Methyl-2-pentanone	500	U
67-64-1	Acetone	1000	U
107-02-8	Acrolein	1000	U
107-13-1	Acrylonitrile	500	U
71-43-2	Benzene	500	U
74-97-5	Bromochloromethane	500	U
75-27-4	Bromodichloromethane	500	U
75-25-2	Bromoform	500	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK2	File ID:	V5407300.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:43	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
74-83-9	Bromomethane	500	U
75-15-0	Carbon disulfide	500	U
56-23-5	Carbon tetrachloride	500	U
108-90-7	Chlorobenzene	500	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	500	U
74-87-3	Chloromethane	500	U
156-59-2	cis-1,2-Dichloroethylene	500	U
10061-01-5	cis-1,3-Dichloropropylene	500	U
110-82-7	Cyclohexane	500	U
124-48-1	Dibromochloromethane	500	U
74-95-3	Dibromomethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
100-41-4	Ethyl Benzene	500	U
87-68-3	Hexachlorobutadiene	500	U
98-82-8	Isopropylbenzene	500	U
79-20-9	Methyl acetate	500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	500	U
108-87-2	Methylcyclohexane	500	U
75-09-2	Methylene chloride	1000	U
104-51-8	n-Butylbenzene	500	U
103-65-1	n-Propylbenzene	500	U
95-47-6	o-Xylene	500	U
179601-23-1	p- & m- Xylenes	1000	U
99-87-6	p-Isopropyltoluene	500	U
135-98-8	sec-Butylbenzene	500	U
100-42-5	Styrene	500	U
75-65-0	tert-Butyl alcohol (TBA)	2500	U
98-06-6	tert-Butylbenzene	500	U
127-18-4	Tetrachloroethylene	500	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00232-BLK2	File ID:	V5407300.D
Prepared:	02/06/20 07:30	Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml
Analyzed:	02/06/20 11:43	Instrument:	VOA No. 5		
Batch:	BB00232	Sequence:	Y0B0615	Calibration:	YL90031

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
108-88-3	Toluene	500	U
156-60-5	trans-1,2-Dichloroethylene	500	U
10061-02-6	trans-1,3-Dichloropropylene	500	U
110-57-6	trans-1,4-dichloro-2-butene	500	U
79-01-6	Trichloroethylene	500	U
75-69-4	Trichlorofluoromethane	500	U
75-01-4	Vinyl Chloride	500	U
1330-20-7	Xylenes, Total	1500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	52.4	105	77 - 125	D
SURR: Toluene-d8	50.0	47.2	94.4	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	47.9	95.8	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	540894	5.739	562365	5.739	
ISTD: Chlorobenzene-d5	1965078	8.768	2036727	8.768	
ISTD: 1,2-Dichlorobenzene-d4	853205	11.742	902270	11.742	

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407300.D
Acq On : 6 Feb 2020 11:43 am
Operator : SS
Sample : BB00232-BLK2
Misc : QBV5020620A MEOH BLANK 100UL/5ML
ALS Vial : 6 Sample Multiplier: 100

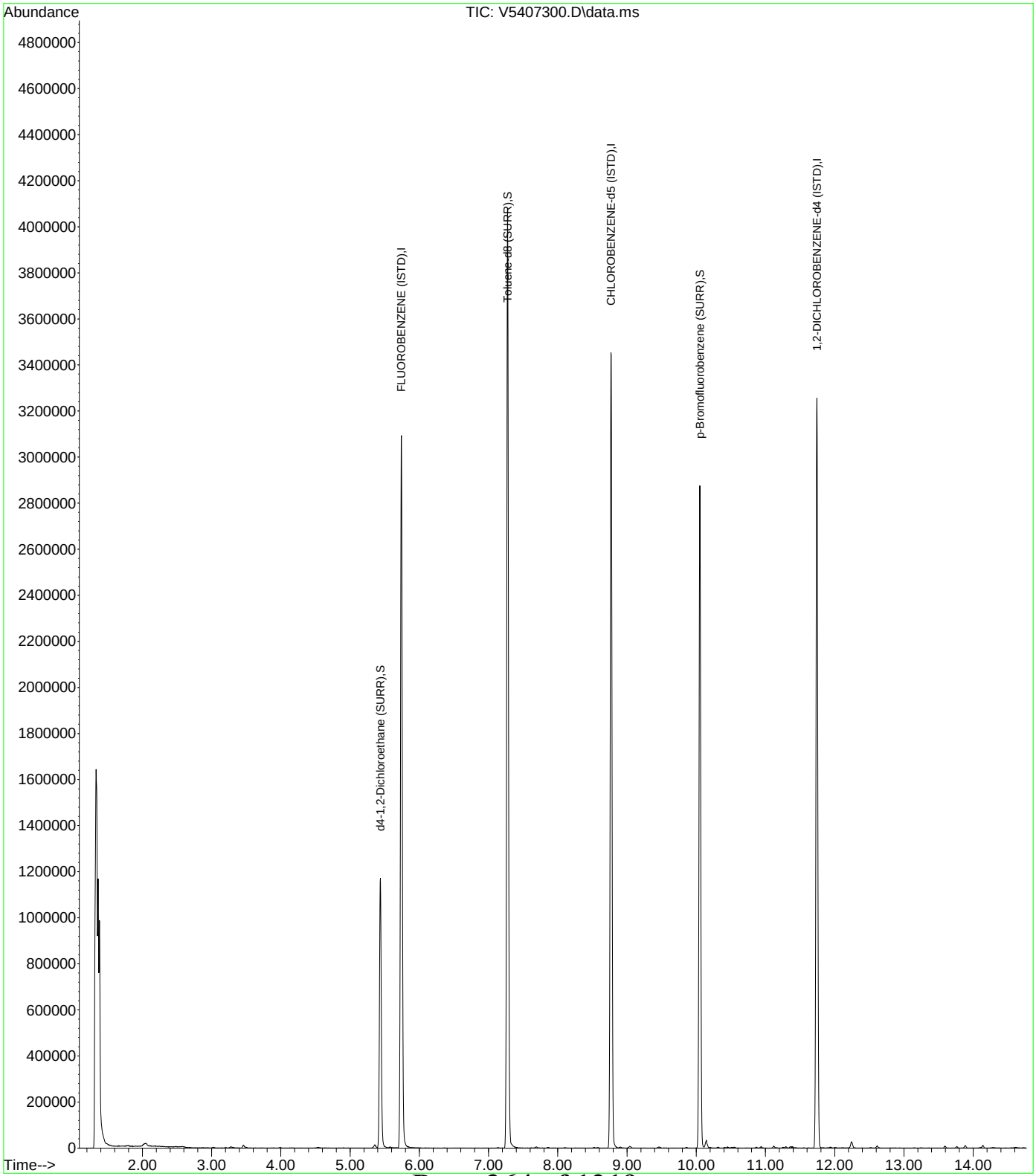
Quant Time: Feb 06 12:01:38 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

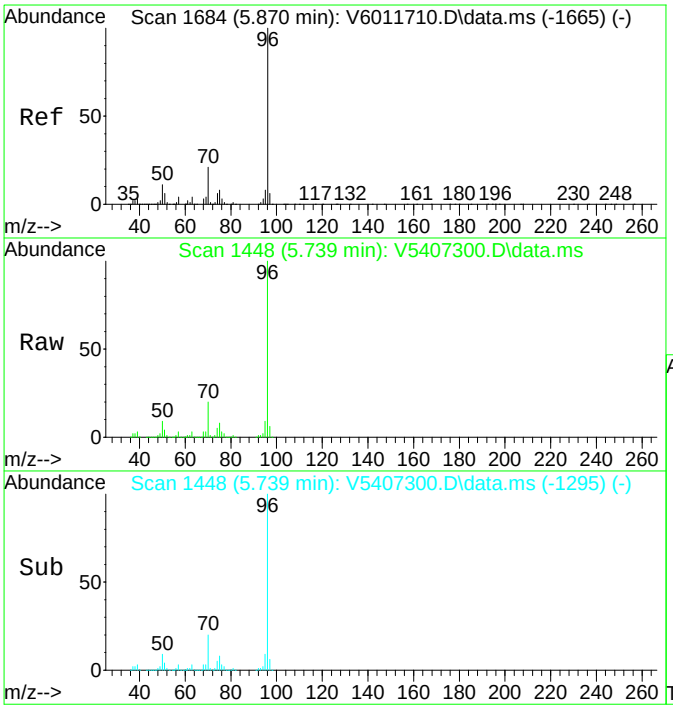
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.739	70	540894	50.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.768	117	1965078	50.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	853205	50.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.437	65	832154	52.39	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.78%			
53) Toluene-d8 (SURR)	7.273	98	2731509	47.21	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.42%			
73) p-Bromofluorobenzene (...	10.051	95	1132727	47.89	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.78%			
Target Compounds						Qvalue

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407300.D
Acq On : 6 Feb 2020 11:43 am
Operator : SS
Sample : BB00232-BLK2
Misc : QBV5020620A MEOH BLANK 100UL/5ML
ALS Vial : 6 Sample Multiplier: 100

Quant Time: Feb 06 12:01:38 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

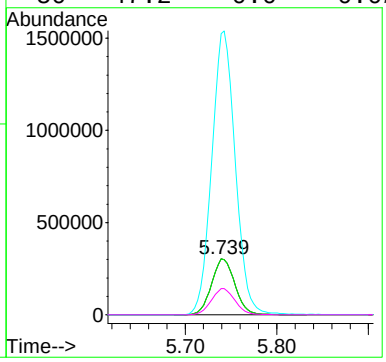


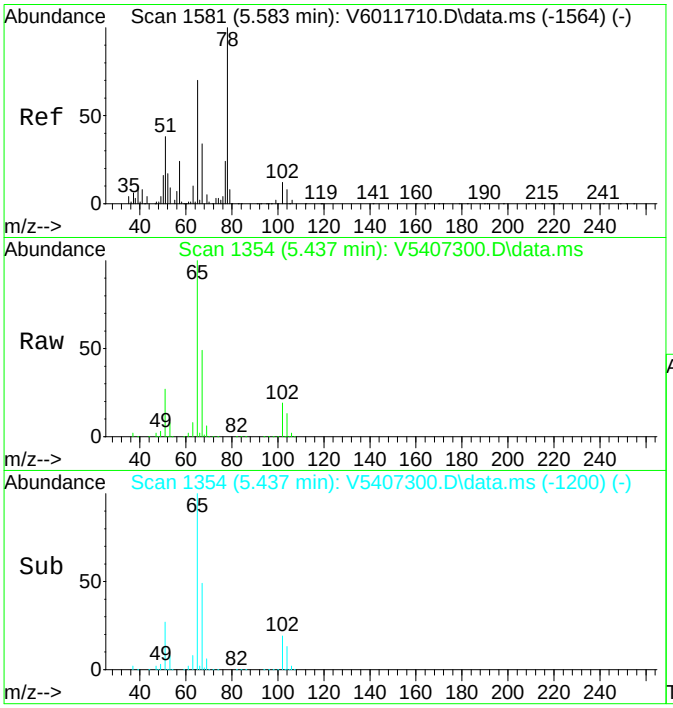


#1
FLUOROBENZENE (ISTD)
Concen: 50.00 ppb
RT: 5.739 min Scan# 1448
Delta R.T. -0.007 min
Lab File: V5407300.D
Acq: 6 Feb 2020 11:43 am

Tgt Ion: 70 Resp: 540894

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	508.7	318.4	661.4
50	47.2	0.0	0.0#

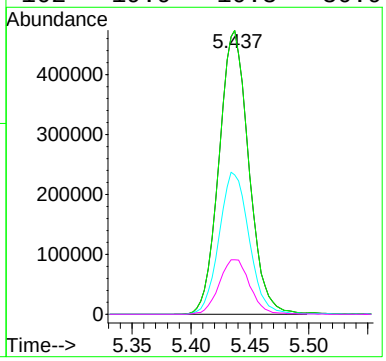


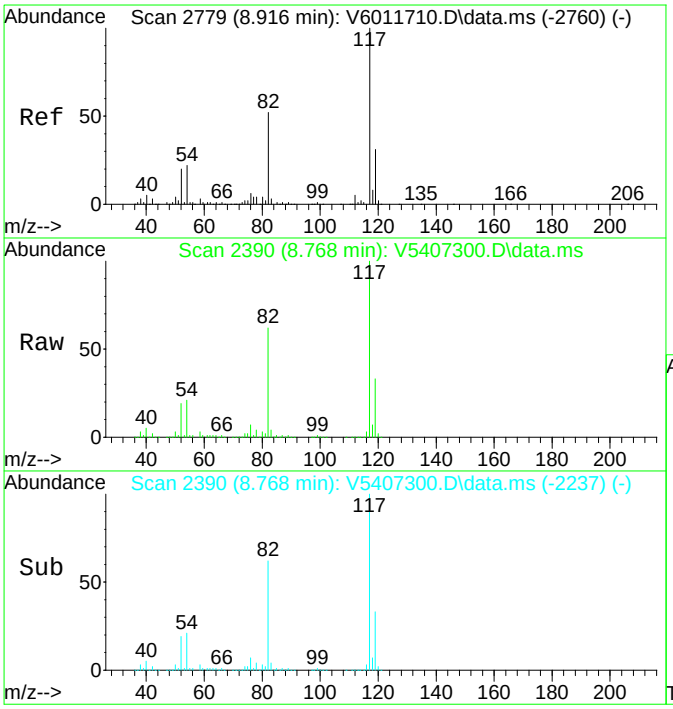


#35
d4-1,2-Dichloroethane (SURR)
Concen: 52.39 ppb
RT: 5.437 min Scan# 1354
Delta R.T. -0.006 min
Lab File: V5407300.D
Acq: 6 Feb 2020 11:43 am

Tgt Ion: 65 Resp: 832154

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.6	34.2	71.0
102	19.9	10.3	30.9

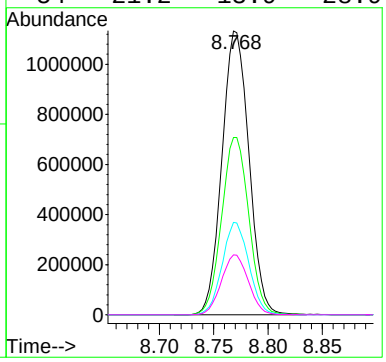


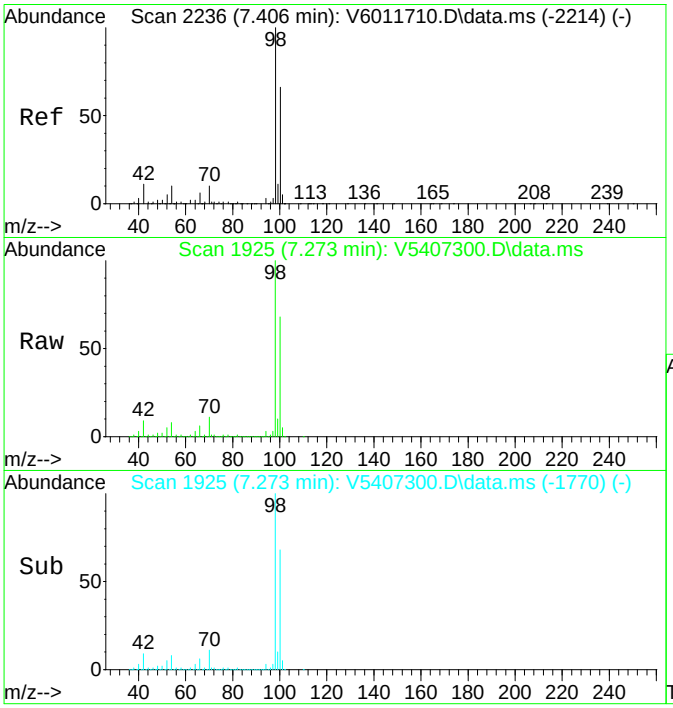


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 50.00 ppb
RT: 8.768 min Scan# 2390
Delta R.T. -0.007 min
Lab File: V5407300.D
Acq: 6 Feb 2020 11:43 am

Tgt Ion:117 Resp: 1965078

Ion	Ratio	Lower	Upper
117	100		
82	62.9	38.3	79.5
119	32.0	20.9	43.3
54	21.2	13.9	28.9

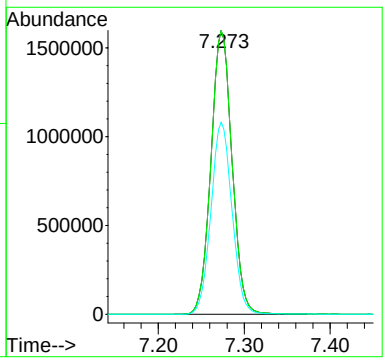


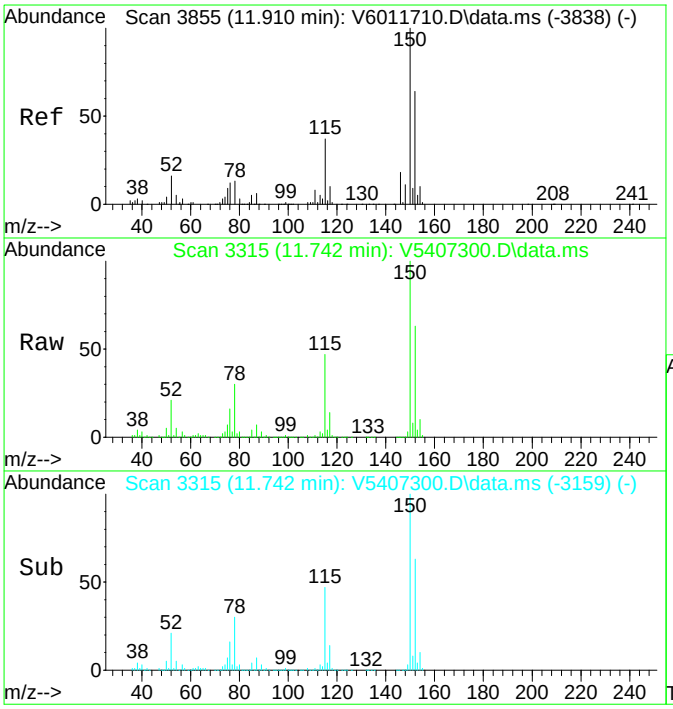


#53
Toluene-d8 (SURR)
Concen: 47.21 ppb
RT: 7.273 min Scan# 1925
Delta R.T. -0.003 min
Lab File: V5407300.D
Acq: 6 Feb 2020 11:43 am

Tgt Ion: 98 Resp: 2731509

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	67.4	43.0	89.4

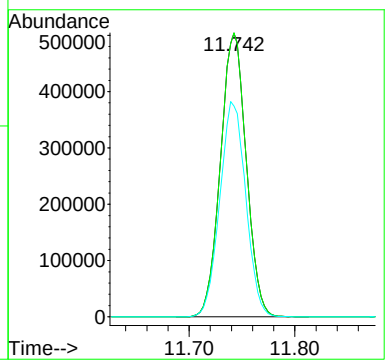


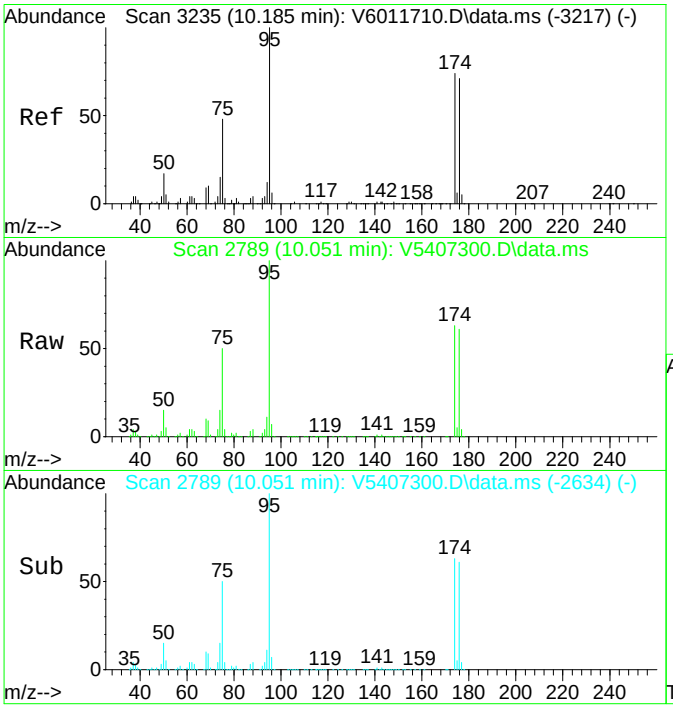


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 50.00 ppb
RT: 11.742 min Scan# 3315
Delta R.T. 0.000 min
Lab File: V5407300.D
Acq: 6 Feb 2020 11:43 am

Tgt Ion:152 Resp: 853205

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	76.3	44.9	134.7

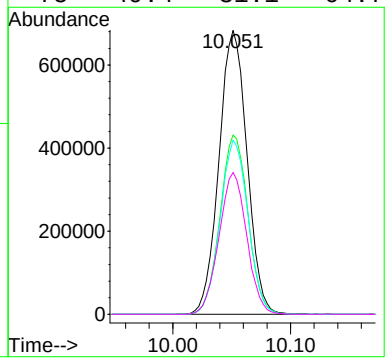




#73
p-Bromofluorobenzene (SURR)
Concen: 47.89 ppb
RT: 10.051 min Scan# 2789
Delta R.T. -0.003 min
Lab File: V5407300.D
Acq: 6 Feb 2020 11:43 am

Tgt Ion: 95 Resp: 1132727

Ion	Ratio	Lower	Upper
95	100		
174	63.1	42.8	88.8
176	60.9	41.3	85.7
75	49.4	31.1	64.7



MATRIX SPIKE RAW DATA

SDG: 20B0093
CLASS: VOA
METHOD: EPA 8260C

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407316.D
Acq On : 6 Feb 2020 6:27 pm
Operator : SS
Sample : BB00232-MS1
Misc : QBV5020620A 20B0093-06 4.69G G
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 07 13:14:02 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	550721	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2053846	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	909845	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.437	65	844484	52.22	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.44%				
53) Toluene-d8 (SURR)	7.273	98	2839716	46.96	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.92%				
73) p-Bromofluorobenzene (...	10.051	95	1204317	47.75	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	350916	41.37	ppb	#	68
3) Chloromethane	1.724	50	251131	39.01	ppb		98
4) Vinyl Chloride	1.801	62	287734	39.26	ppb		97
5) Bromomethane	2.109	94	119592	24.78	ppb		65
6) Chloroethane	2.225	64	206898	47.85	ppb		98
7) Trichlorofluoromethane	2.479	101	404339	39.38	ppb		99
9) Freon-113	3.000	101	299671	39.77	ppb	#	75
10) 1,1-Dichloroethylene	2.984	61	447541	39.31	ppb		93
12) Acetone	3.019	43	152543	46.90	ppb		100
13) Iodomethane	3.125	142	264168	38.80	ppb		99
14) Allyl Chloride	3.321	43	213640	34.15	ppb	#	81
15) Methyl Acetate	3.321	43	213640	34.15	ppb		98
16) Carbon disulfide	3.203	76	731536	33.76	ppb		100
17) tert-Butyl Alcohol (TBA)	3.553	59	229606	201.93	ppb	#	96
18) Methylene Chloride	3.460	49	418242	48.96	ppb		83
19) Acrylonitrile	3.662	53	120646	37.12	ppb	#	65
20) trans-1,2-Dichloroethy...	3.723	61	424019	37.73	ppb		96
21) tert-Butyl Methyl Ethe...	3.717	73	1132437	43.49	ppb	#	100
22) 1,1-Dichloroethane	4.132	63	570986	38.38	ppb	#	100
23) Vinyl Acetate	4.167	43	412274	30.42	ppb	#	97
24) Diisopropyl ether (DIPE)	4.167	45	820690	38.24	ppb	#	88
25) Ethyl-tert-Butyl ether...	4.502	59	1009632	40.92	ppb	#	97
26) cis-1,2-Dichloroethylene	4.659	61	490637	36.75	ppb	#	82
27) 2-Butanone	4.637	72	57950	40.03	ppb		82
28) 2,2-Dichloropropane	4.665	77	374785	30.07	ppb		97
29) Tetrahydrofuran	4.900	42	154824	59.22	ppb		78
30) Bromochloromethane	4.878	49	244822	41.12	ppb		95
31) Chloroform	4.971	83	649433	40.39	ppb	#	94
32) 1,1,1-Trichloroethane	5.132	97	508642	39.03	ppb	#	100
33) Cyclohexane	5.212	56	398696	33.87	ppb	#	91
34) 1,1-Dichloropropylene	5.280	75	430951	33.45	ppb		92
36) Carbon Tetrachloride	5.283	117	347716	36.59	ppb		100
37) tert-Amyl alcohol (TAA)	5.460	59	312930	366.78	ppb	#	96
38) 1,2-Dichloroethane	5.508	62	569766	43.96	ppb		99
39) Benzene	5.463	78	1416452	38.02	ppb	#	95
40) tert-Amyl methyl ether...	5.585	73	1026788	39.63	ppb	#	99
42) Trichloroethylene	6.087	95	336031	31.29	ppb		91
43) Methyl Cyclohexane	6.325	83	456700	23.59	ppb		94
44) Methyl Methacrylate	6.370	69	310590	35.75	ppb	#	98
45) Dibromomethane	6.415	93	227956	35.53	ppb	#	69
46) Bromodichloromethane	6.579	83	435458	34.23	ppb		98
47) 1,2-Dichloropropane	6.331	63	310976	32.92	ppb		96
48) 1,4-Dioxane	6.402	88	154676	955.16	ppb	#	100
49) 2-Nitropropane	6.772	43	120831	36.14	ppb		98
50) 2-Chloroethyl vinyl ether	6.845	63	202052	38.87	ppb		99
51) cis-1,3-Dichloropropene	7.006	75	478440	28.51	ppb		96
52) 4-Methyl-2-Pentanone	7.135	43	331727	34.22	ppb		89

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407316.D
Acq On : 6 Feb 2020 6:27 pm
Operator : SS
Sample : BB00232-MS1
Misc : QBV5020620A 20B0093-06 4.69G G
ALS Vial : 22 Sample Multiplier: 1

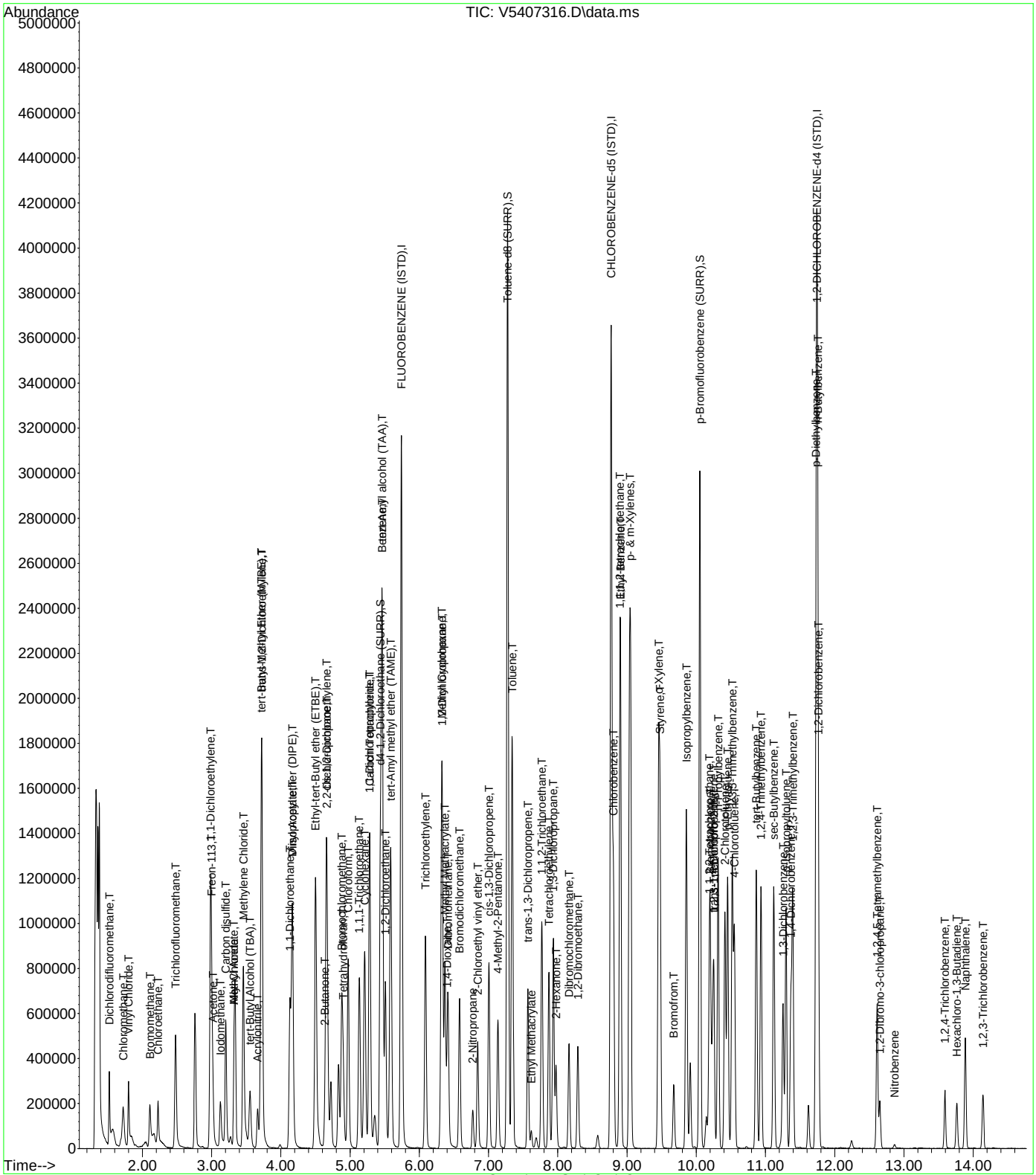
Quant Time: Feb 07 13:14:02 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.344	91	1387118	29.60	ppb		100
55) trans-1,3-Dichloropropene	7.569	75	385114	25.24	ppb	#	100
56) Ethyl Methacrylate	7.617	69	40289	2.62	ppb		86
57) 1,1,2-Trichloroethane	7.768	97	342521	34.95	ppb		97
58) 1,3-Dichloropropane	7.935	76	588565	33.91	ppb	#	100
59) Tetrachloroethylene	7.871	166	227785	23.75	ppb	#	99
60) 2-Hexanone	7.977	43	203013	28.20	ppb		76
61) Dibromochloromethane	8.161	129	237018	31.07	ppb		99
62) 1,2-Dibromoethane	8.289	107	321581	34.20	ppb		98
63) Chlorobenzene	8.804	112	676622	24.31	ppb		95
64) 1,1,1,2-tetrachloroethane	8.897	131	230046	29.63	ppb		97
65) Ethyl Benzene	8.906	91	1302170	24.91	ppb		99
66) p- & m-Xylenes	9.042	91	1965523	47.23	ppb		98
67) o-Xylene	9.456	91	1032013	24.04	ppb		99
68) Styrene	9.476	104	691899	21.50	ppb		96
69) Bromofrom	9.675	173	124469	26.74	ppb	#	100
71) p-Ethyltoluene	10.453	105	825166	17.78	ppb	#	99
72) Isopropylbenzene	9.858	105	1098468	20.55	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.186	83	376494	26.45	ppb		91
75) Bromobenzene	10.205	77	420912	18.30	ppb		99
76) trans-1,4-Dichloro-2-b...	10.254	75	482470	26.28	ppb	#	90
77) 1,2,3-Trichloropropane	10.254	110	139827	31.74	ppb	#	1
78) n-Propylbenzene	10.318	91	1120975	17.25	ppb		98
79) 2-Chlorotoluene	10.414	91	697633	16.62	ppb		99
80) 4-Chlorotoluene	10.550	91	725816	15.47	ppb		98
81) 1,3,5-Trimethylbenzene	10.521	105	779518	17.45	ppb		95
82) tert-Butylbenzene	10.868	119	629488	15.92	ppb		84
83) 1,2,4-Trimethylbenzene	10.935	105	725711	16.28	ppb		96
84) sec-Butylbenzene	11.119	105	882886	16.64	ppb		98
85) 1,3-Dichlorobenzene	11.254	146	260029	12.91	ppb		96
86) p-Isopropyltoluene	11.299	119	650098	14.60	ppb		97
87) 1,4-Dichlorobenzene	11.369	146	260776	12.68	ppb		96
88) 1,2,3-Trimethylbenzene	11.395	105	710492	16.55	ppb		96
89) p-Diethylbenzene	11.730	105	297822	12.74	ppb		91
90) 1,2-Dichlorobenzene	11.765	146	265033	13.88	ppb	#	68
91) n-Butylbenzene	11.755	91	488368m	10.49	ppb		
93) 1,2-Dibromo-3-chloropr...	12.652	75	61735	21.70	ppb	#	100
94) Nitrobenzene	12.865	77	9560	18.96	ppb	#	76
95) 1,2,4,5-Tetramethylben...	12.614	119	370267	9.57	ppb		96
96) 1,2,4-Trichlorobenzene	13.591	180	79150	6.11	ppb		98
97) Hexachloro-1,3-Butadiene	13.765	225	39931	6.38	ppb		98
98) Naphthalene	13.887	128	383401	10.06	ppb		100
99) 1,2,3-Trichlorobenzene	14.141	180	76195	6.19	ppb		98

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407316.D
Acq On : 6 Feb 2020 6:27 pm
Operator : SS
Sample : BB00232-MS1
Misc : QBV5020620A 20B0093-06 4.69G G
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 07 13:14:02 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407317.D
Acq On : 6 Feb 2020 6:52 pm
Operator : SS
Sample : BB00232-MSD1
Misc : QBV5020620A 20B0093-06 5.98G M
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 07 13:14:51 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	558862	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2089343	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	923524	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.437	65	867501	52.86	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.72%				
53) Toluene-d8 (SURR)	7.273	98	2867802	46.62	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.24%				
73) p-Bromofluorobenzene (...	10.051	95	1225379	47.86	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	497434	57.79	ppb	#	69
3) Chloromethane	1.720	50	314311	48.11	ppb		99
4) Vinyl Chloride	1.801	62	385861	51.88	ppb		100
5) Bromomethane	2.109	94	250577	51.15	ppb		75
6) Chloroethane	2.228	64	263171	59.98	ppb		100
7) Trichlorofluoromethane	2.479	101	575477	55.23	ppb		99
9) Freon-113	3.000	101	427561	55.92	ppb	#	76
10) 1,1-Dichloroethylene	2.987	61	598798	51.83	ppb		91
12) Acetone	3.019	43	194594	58.96	ppb		99
13) Iodomethane	3.128	142	347935	50.36	ppb		99
14) Allyl Chloride	3.325	43	217130	34.20	ppb	#	61
15) Methyl Acetate	3.325	43	217130	34.20	ppb		97
16) Carbon disulfide	3.202	76	1017961	46.30	ppb		100
17) tert-Butyl Alcohol (TBA)	3.556	59	225840	195.72	ppb	#	93
18) Methylene Chloride	3.460	49	450528	51.97	ppb		84
19) Acrylonitrile	3.665	53	119270	36.16	ppb		98
20) trans-1,2-Dichloroethy...	3.723	61	523849	45.93	ppb		96
21) tert-Butyl Methyl Ethe...	3.717	73	1135759	42.98	ppb	#	100
22) 1,1-Dichloroethane	4.132	63	671791	44.49	ppb	#	100
23) Vinyl Acetate	4.167	43	432966	31.48	ppb	#	97
24) Diisopropyl ether (DIPE)	4.164	45	856329	39.32	ppb		96
25) Ethyl-tert-Butyl ether...	4.505	59	1052459	42.03	ppb	#	80
26) cis-1,2-Dichloroethylene	4.659	61	575838	42.51	ppb	#	83
27) 2-Butanone	4.636	72	57465	39.11	ppb		83
28) 2,2-Dichloropropane	4.669	77	507729	40.15	ppb	#	77
29) Tetrahydrofuran	4.900	42	151578	57.13	ppb		81
30) Bromochloromethane	4.878	49	248760	41.17	ppb		93
31) Chloroform	4.971	83	746971	45.78	ppb	#	94
32) 1,1,1-Trichloroethane	5.135	97	685837	51.86	ppb	#	99
33) Cyclohexane	5.212	56	592790	49.62	ppb	#	90
34) 1,1-Dichloropropylene	5.283	75	588609	45.02	ppb		94
36) Carbon Tetrachloride	5.283	117	490288	50.84	ppb		100
37) tert-Amyl alcohol (TAA)	5.456	59	310675	358.84	ppb	#	95
38) 1,2-Dichloroethane	5.508	62	561249	42.67	ppb		100
39) Benzene	5.463	78	1689512	44.68	ppb	#	98
40) tert-Amyl methyl ether...	5.585	73	1048011	39.86	ppb	#	100
42) Trichloroethylene	6.087	95	431133	39.47	ppb		92
43) Methyl Cyclohexane	6.321	83	700648	35.57	ppb		93
44) Methyl Methacrylate	6.370	69	362619	41.03	ppb	#	98
45) Dibromomethane	6.415	93	236513	36.24	ppb		100
46) Bromodichloromethane	6.579	83	489730	37.84	ppb		98
47) 1,2-Dichloropropane	6.331	63	349027	36.32	ppb		96
48) 1,4-Dioxane	6.398	88	131427	797.80	ppb	#	100
49) 2-Nitropropane	6.775	43	124251	36.53	ppb		95
50) 2-Chloroethyl vinyl ether	6.842	63	203233	38.43	ppb		99
51) cis-1,3-Dichloropropene	7.006	75	528946	30.98	ppb		96
52) 4-Methyl-2-Pentanone	7.135	43	330097	33.48	ppb		89

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407317.D
Acq On : 6 Feb 2020 6:52 pm
Operator : SS
Sample : BB00232-MSD1
Misc : QBV5020620A 20B0093-06 5.98G M
ALS Vial : 23 Sample Multiplier: 1

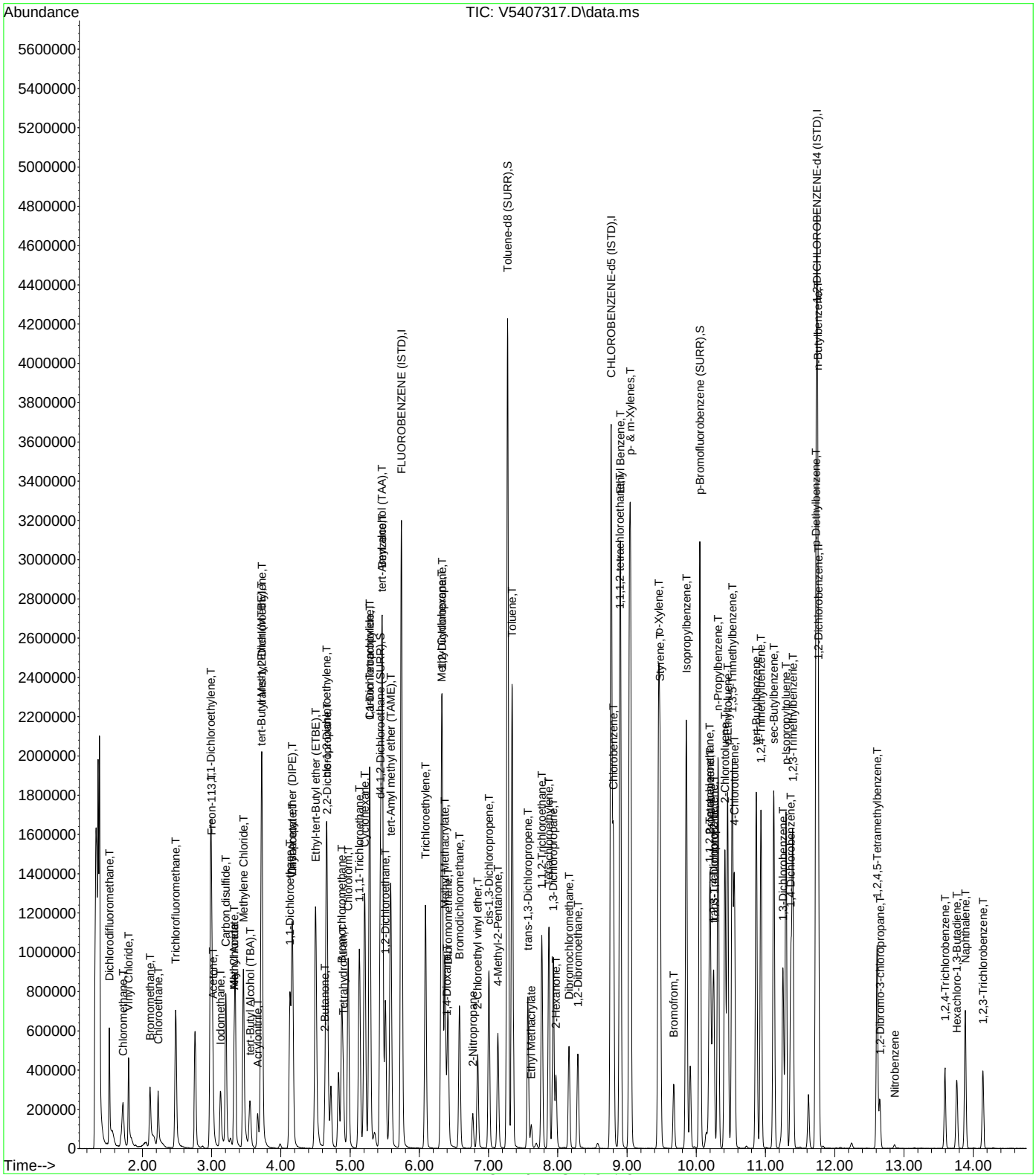
Quant Time: Feb 07 13:14:51 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.341	91	1752564	36.76	ppb		100
55) trans-1,3-Dichloropropene	7.569	75	420642	27.10	ppb	#	100
56) Ethyl Methacrylate	7.614	69	63635	4.06	ppb		86
57) 1,1,2-Trichloroethane	7.768	97	354612	35.57	ppb		98
58) 1,3-Dichloropropane	7.935	76	616827	34.94	ppb	#	100
59) Tetrachloroethylene	7.868	166	331023	33.93	ppb	#	99
60) 2-Hexanone	7.974	43	207071	28.27	ppb	#	73
61) Dibromochloromethane	8.164	129	263651	33.64	ppb		99
62) 1,2-Dibromoethane	8.289	107	337352	35.27	ppb		98
63) Chlorobenzene	8.803	112	847776	29.94	ppb		95
64) 1,1,1,2-tetrachloroethane	8.894	131	279142	35.34	ppb		98
65) Ethyl Benzene	8.903	91	1782341	33.51	ppb		99
66) p- & m-Xylenes	9.045	91	2699363	63.76	ppb		98
67) o-Xylene	9.456	91	1375874	31.50	ppb		99
68) Styrene	9.476	104	891342	27.23	ppb		95
69) Bromofrom	9.675	173	141970	29.32	ppb	#	77
71) p-Ethyltoluene	10.453	105	1203982	25.56	ppb	#	99
72) Isopropylbenzene	9.858	105	1608423	29.65	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.189	83	418753	28.99	ppb	#	70
75) Bromobenzene	10.202	77	546179	23.39	ppb		97
76) trans-1,4-Dichloro-2-b...	10.254	75	521628	27.99	ppb	#	90
77) 1,2,3-Trichloropropane	10.254	110	149019	33.33	ppb	#	1
78) n-Propylbenzene	10.315	91	1700044	25.77	ppb		97
79) 2-Chlorotoluene	10.414	91	996732	23.40	ppb		99
80) 4-Chlorotoluene	10.549	91	1047418	22.00	ppb		98
81) 1,3,5-Trimethylbenzene	10.520	105	1165755	25.71	ppb		93
82) tert-Butylbenzene	10.868	119	960589	23.94	ppb		84
83) 1,2,4-Trimethylbenzene	10.935	105	1079065	23.85	ppb		96
84) sec-Butylbenzene	11.119	105	1408687	26.16	ppb		97
85) 1,3-Dichlorobenzene	11.250	146	380734	18.62	ppb		96
86) p-Isopropyltoluene	11.295	119	1042518	23.07	ppb		97
87) 1,4-Dichlorobenzene	11.366	146	375196	17.98	ppb		96
88) 1,2,3-Trimethylbenzene	11.395	105	1013464	23.25	ppb		96
89) p-Diethylbenzene	11.726	105	495824	20.90	ppb		93
90) 1,2-Dichlorobenzene	11.765	146	368627	19.02	ppb	#	68
91) n-Butylbenzene	11.755	91	775285m	16.40	ppb		
93) 1,2-Dibromo-3-chloropr...	12.655	75	74429	24.86	ppb	#	100
94) Nitrobenzene	12.868	77	10534	20.15	ppb		89
95) 1,2,4,5-Tetramethylben...	12.614	119	598362	15.23	ppb		96
96) 1,2,4-Trichlorobenzene	13.594	180	128869	9.81	ppb		98
97) Hexachloro-1,3-Butadiene	13.765	225	70697	11.13	ppb		98
98) Naphthalene	13.887	128	547647	14.15	ppb		99
99) 1,2,3-Trichlorobenzene	14.141	180	121256	9.71	ppb		97

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407317.D
Acq On : 6 Feb 2020 6:52 pm
Operator : SS
Sample : BB00232-MSD1
Misc : QBV5020620A 20B0093-06 5.98G M
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 07 13:14:51 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



LCS RAW DATA

SDG: 20B0093
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910065.D
Acq On : 7 Feb 2020 1:06 am
Operator : LLJ
Sample : BB00136-BS1
Misc : QBQV90020620A
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Feb 07 08:38:04 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.784	70	66350	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.838	117	290827	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.829	152	100682	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.467	65	102916	11.35	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 113.50%				
51) Toluene-d8 (SURR)	7.333	98	363720	9.56	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.60%				
70) p-Bromofluorobenzene (...	10.131	95	163473	9.77	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 97.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	87386	12.43	ppb	#	1
3) Chloromethane	1.768	50	25745m	9.28	ppb		
4) Vinyl Chloride	1.844	62	59422	12.04	ppb	#	100
5) Bromomethane	2.160	94	5228	14.05	ppb		97
6) Chloroethane	2.274	64	32420	11.09	ppb	#	19
7) Trichlorofluoromethane	2.527	101	134313	12.20	ppb	#	19
9) Freon-113	3.044	101	62865	10.25	ppb	#	1
10) 1,1-Dichloroethylene	3.026	61	101867	9.60	ppb	#	81
11) Acrolein	2.904	56	2336	5.73	ppb	#	1
12) Acetone	3.032	43	9521	10.16	ppb	#	1
13) Iodomethane	3.175	142	4438m	7.46	ppb		
14) Methyl Acetate	3.346	43	19951	8.92	ppb	#	1
15) Carbon disulfide	3.259	76	125266	8.11	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.561	59	19904	47.54	ppb	#	1
17) Methylene Chloride	3.488	49	70305	9.54	ppb	#	76
18) Acrylonitrile	3.756	53	1988	12.78	ppb	#	1
19) trans-1,2-Dichloroethy...	3.770	61	92195	9.38	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.762	73	177245	10.29	ppb	#	96
21) 1,1-Dichloroethane	4.163	63	118651	9.46	ppb	#	99
22) Vinyl Acetate	4.151	43	48521	7.15	ppb	#	1
23) Diisopropyl ether (DIPE)	4.212	45	178807	10.32	ppb	#	51
24) Ethyl-tert-Butyl ether...	4.549	59	233203	11.18	ppb	#	98
25) cis-1,2-Dichloroethylene	4.689	61	111352	9.48	ppb	#	86
26) 2-Butanone	4.645	72	4352m	10.13	ppb		
27) 2,2-Dichloropropane	4.706	77	99446	8.83	ppb	#	83
28) Tetrahydrofuran	4.941	42	7985	9.51	ppb	#	1
29) Bromochloromethane	4.912	49	39964	9.74	ppb	#	33
30) Chloroform	5.002	83	135271	10.15	ppb	#	95
31) 1,1,1-Trichloroethane	5.180	97	140815	10.93	ppb	#	26
32) Cyclohexane	5.281	56	103825	4.01	ppb	#	74
33) 1,1-Dichloropropylene	5.331	75	93763	9.47	ppb	#	69
35) Carbon Tetrachloride	5.342	117	115709	10.74	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.476	59	35419	112.39	ppb	#	16
37) 1,2-Dichloroethane	5.540	62	104909	10.89	ppb	#	100
38) Benzene	5.511	78	251666	9.21	ppb	#	95
39) tert-Amyl methyl ether...	5.636	73	187643	10.67	ppb	#	1
41) Trichloroethylene	6.142	95	74605	8.92	ppb	#	75
42) Methyl Cyclohexane	6.397	83	108541	8.69	ppb	#	46
43) Methyl Methacrylate	6.409	69	52396	8.66	ppb	#	96
44) Dibromomethane	6.458	93	35772	9.74	ppb	#	49
45) Bromodichloromethane	6.624	83	101999	9.74	ppb	#	98
46) 1,2-Dichloropropane	6.377	63	65280	8.84	ppb	#	84
47) 1,4-Dioxane	6.447	88	4559m	146.85	ppb		
48) 2-Chloroethyl vinyl ether	6.883	63	22830	9.18	ppb	#	1
49) cis-1,3-Dichloropropene	7.051	75	104628	9.16	ppb	#	75
50) 4-Methyl-2-Pentanone	7.164	43	34498	9.38	ppb	#	51
52) Toluene	7.406	91	299559	8.82	ppb		99

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910065.D
Acq On : 7 Feb 2020 1:06 am
Operator : LLJ
Sample : BB00136-BS1
Misc : QBQV90020620A
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Feb 07 08:38:04 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

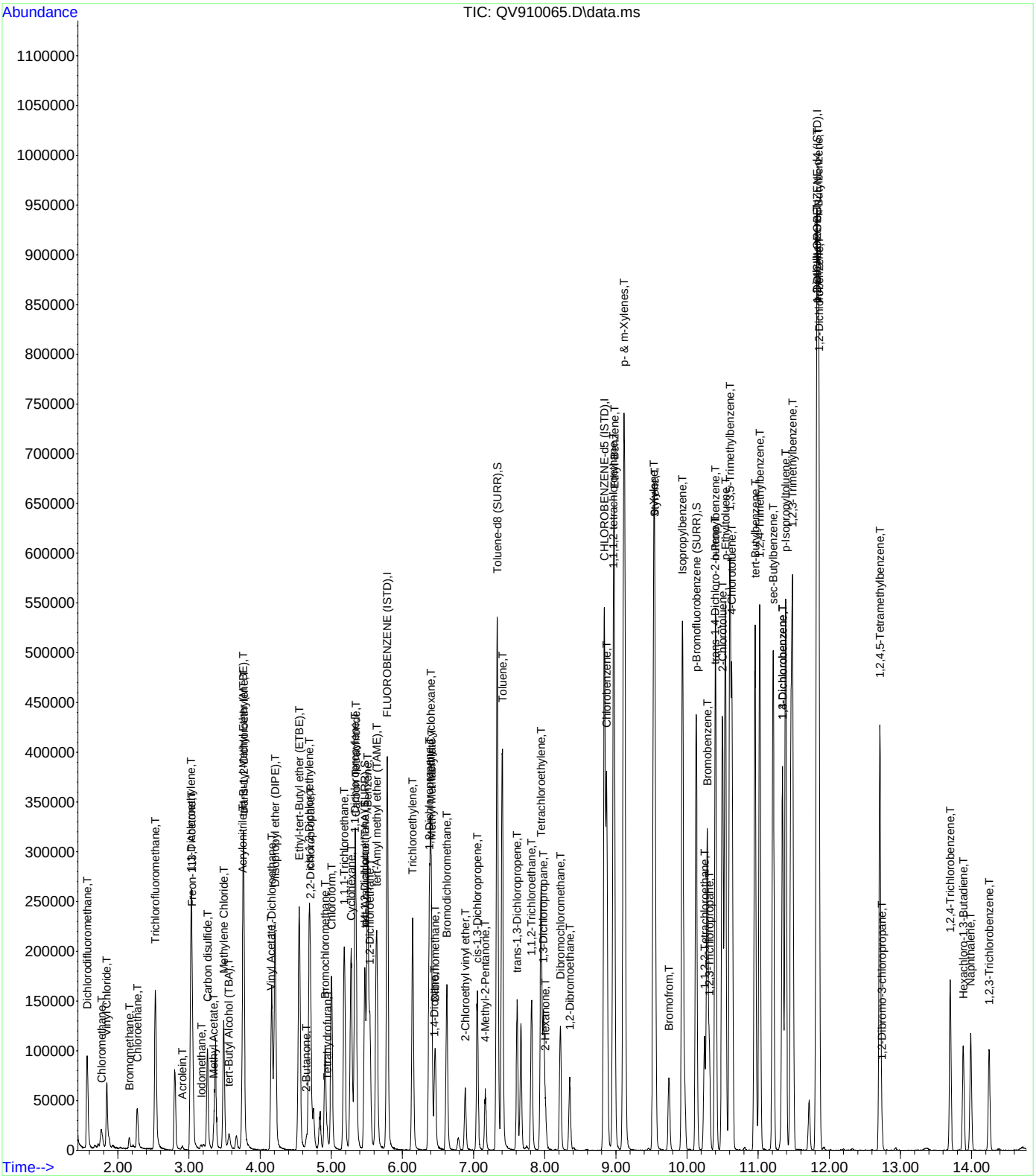
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.609	75	92046	9.53	ppb	#	99
54) 1,1,2-Trichloroethane	7.813	97	47859	9.17	ppb	#	1
55) 1,3-Dichloropropane	7.981	76	88428	9.64	ppb	#	96
56) Tetrachloroethylene	7.949	166	73691	8.15	ppb	#	100
57) 2-Hexanone	8.010	43	23409	9.08	ppb	#	1
58) Dibromochloromethane	8.219	129	64653	10.13	ppb	#	86
59) 1,2-Dibromoethane	8.353	107	46831	9.37	ppb		90
60) Chlorobenzene	8.870	112	201539	9.14	ppb	#	86
61) 1,1,1,2-tetrachloroethane	8.963	131	78207	10.24	ppb	#	49
62) Ethyl Benzene	8.978	91	379021	9.54	ppb		95
63) p- & m-Xylenes	9.114	91	608285	19.08	ppb		92
64) o-Xylene	9.530	91	313889	9.73	ppb		95
65) Styrene	9.547	104	225074	9.69	ppb	#	82
66) Bromofrom	9.745	173	33079	10.23	ppb	#	95
68) p-Ethyltoluene	10.538	105	359090	9.05	ppb	#	100
69) Isopropylbenzene	9.934	105	390087	8.67	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.245	83	51851	8.91	ppb	#	65
72) Bromobenzene	10.285	77	148087	8.46	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.393	75	3553	11.06	ppb	#	1
74) 1,2,3-Trichloropropane	10.315	110	18362	9.62	ppb	#	1
75) n-Propylbenzene	10.399	91	445959	8.68	ppb	#	88
76) 2-Chlorotoluene	10.498	91	283897	9.02	ppb		98
77) 4-Chlorotoluene	10.628	91	327385	8.98	ppb		95
78) 1,3,5-Trimethylbenzene	10.602	105	346795	9.24	ppb	#	60
79) tert-Butylbenzene	10.957	119	267485	7.67	ppb	#	86
80) 1,2,4-Trimethylbenzene	11.021	105	338512	9.05	ppb		92
81) sec-Butylbenzene	11.210	105	378294	9.18	ppb	#	90
82) 1,3-Dichlorobenzene	11.343	146	151712	9.01	ppb	#	91
83) p-Isopropyltoluene	11.387	119	328257	8.90	ppb		93
84) 1,4-Dichlorobenzene	11.343	146	151712	9.00	ppb		90
85) 1,2,3-Trimethylbenzene	11.483	105	327783	9.80	ppb	#	90
86) p-Diethylbenzene	11.826	105	181521	9.98	ppb	#	61
87) 1,2-Dichlorobenzene	11.855	146	128713	9.05	ppb	#	100
88) n-Butylbenzene	11.849	91	339739	8.97	ppb		96
89) 1,2-Dibromo-3-chloropr...	12.738	75	10778	9.38	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.709	119	246126	8.62	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.700	180	50998	7.76	ppb	#	12
92) Hexachloro-1,3-Butadiene	13.883	225	21443	7.45	ppb	#	60
93) Naphthalene	13.988	128	95677	7.10	ppb	#	93
94) 1,2,3-Trichlorobenzene	14.249	180	30809	6.88	ppb	#	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910065.D
Acq On : 7 Feb 2020 1:06 am
Operator : LLJ
Sample : BB00136-BS1
Misc : QBQV90020620A
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Feb 07 08:38:04 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910066.D
Acq On : 7 Feb 2020 1:33 am
Operator : LLJ
Sample : BB00136-BSD1
Misc : QBQV90020620A
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 07 08:35:38 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.787	70	66375	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.838	117	287873	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.832	152	101602	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.473	65	103752	11.44	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 114.40%				
51) Toluene-d8 (SURR)	7.330	98	360646	9.58	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.80%				
70) p-Bromofluorobenzene (...	10.129	95	156946	9.29	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.568	85	81850	11.64	ppb	#	1
3) Chloromethane	1.771	50	24473m	8.82	ppb		
4) Vinyl Chloride	1.844	62	54410	11.02	ppb	#	98
5) Bromomethane	2.161	94	4858	13.14	ppb		100
6) Chloroethane	2.271	64	28117	9.61	ppb	#	19
7) Trichlorofluoromethane	2.530	101	122054	11.08	ppb	#	18
9) Freon-113	3.044	101	58015	9.46	ppb	#	1
10) 1,1-Dichloroethylene	3.029	61	94473	8.90	ppb	#	82
11) Acrolein	2.907	56	2782	6.83	ppb	#	1
12) Acetone	3.038	43	8081	8.62	ppb	#	1
13) Iodomethane	3.166	142	3852	7.11	ppb	#	59
14) Methyl Acetate	3.352	43	17402	7.78	ppb	#	1
15) Carbon disulfide	3.256	76	117854	7.62	ppb	#	20
16) tert-Butyl Alcohol (TBA)	3.567	59	19975	47.69	ppb	#	1
17) Methylene Chloride	3.486	49	67364	9.14	ppb	#	78
18) Acrylonitrile	3.768	53	2035m	13.08	ppb		
19) trans-1,2-Dichloroethy...	3.768	61	87011	8.85	ppb	#	84
20) tert-Butyl Methyl Ethe...	3.765	73	167715	9.74	ppb	#	97
21) 1,1-Dichloroethane	4.163	63	112420	8.96	ppb	#	99
22) Vinyl Acetate	4.151	43	43034	6.34	ppb	#	1
23) Diisopropyl ether (DIPE)	4.206	45	172165	9.93	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.549	59	222637	10.67	ppb	#	99
25) cis-1,2-Dichloroethylene	4.689	61	108012	9.19	ppb	#	86
26) 2-Butanone	4.654	72	3568	8.21	ppb	#	1
27) 2,2-Dichloropropane	4.703	77	93240	8.28	ppb	#	90
28) Tetrahydrofuran	4.947	42	7082	8.43	ppb	#	1
29) Bromochloromethane	4.910	49	38569	9.40	ppb	#	45
30) Chloroform	5.003	83	129986	9.75	ppb	#	85
31) 1,1,1-Trichloroethane	5.186	97	130995	10.16	ppb	#	65
32) Cyclohexane	5.279	56	95092	3.67	ppb	#	74
33) 1,1-Dichloropropylene	5.331	75	87959	8.88	ppb	#	55
35) Carbon Tetrachloride	5.343	117	110981	10.30	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.482	59	32670	103.63	ppb	#	1
37) 1,2-Dichloroethane	5.543	62	102254	10.61	ppb	#	100
38) Benzene	5.511	78	240118	8.79	ppb	#	94
39) tert-Amyl methyl ether...	5.636	73	182370	10.36	ppb	#	1
41) Trichloroethylene	6.142	95	70854	8.56	ppb	#	73
42) Methyl Cyclohexane	6.397	83	99801	8.07	ppb	#	43
43) Methyl Methacrylate	6.403	69	49476	8.26	ppb	#	96
44) Dibromomethane	6.461	93	34379	9.45	ppb	#	53
45) Bromodichloromethane	6.621	83	97439	9.40	ppb	#	97
46) 1,2-Dichloropropane	6.377	63	61797	8.45	ppb	#	78
47) 1,4-Dioxane	6.447	88	3791	123.26	ppb		98
48) 2-Chloroethyl vinyl ether	6.883	63	21934	8.91	ppb	#	1
49) cis-1,3-Dichloropropene	7.051	75	99970	8.84	ppb	#	88
50) 4-Methyl-2-Pentanone	7.165	43	34573	9.50	ppb	#	58
52) Toluene	7.400	91	288456	8.58	ppb		100

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910066.D
Acq On : 7 Feb 2020 1:33 am
Operator : LLJ
Sample : BB00136-BSD1
Misc : QBQV90020620A
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 07 08:35:38 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

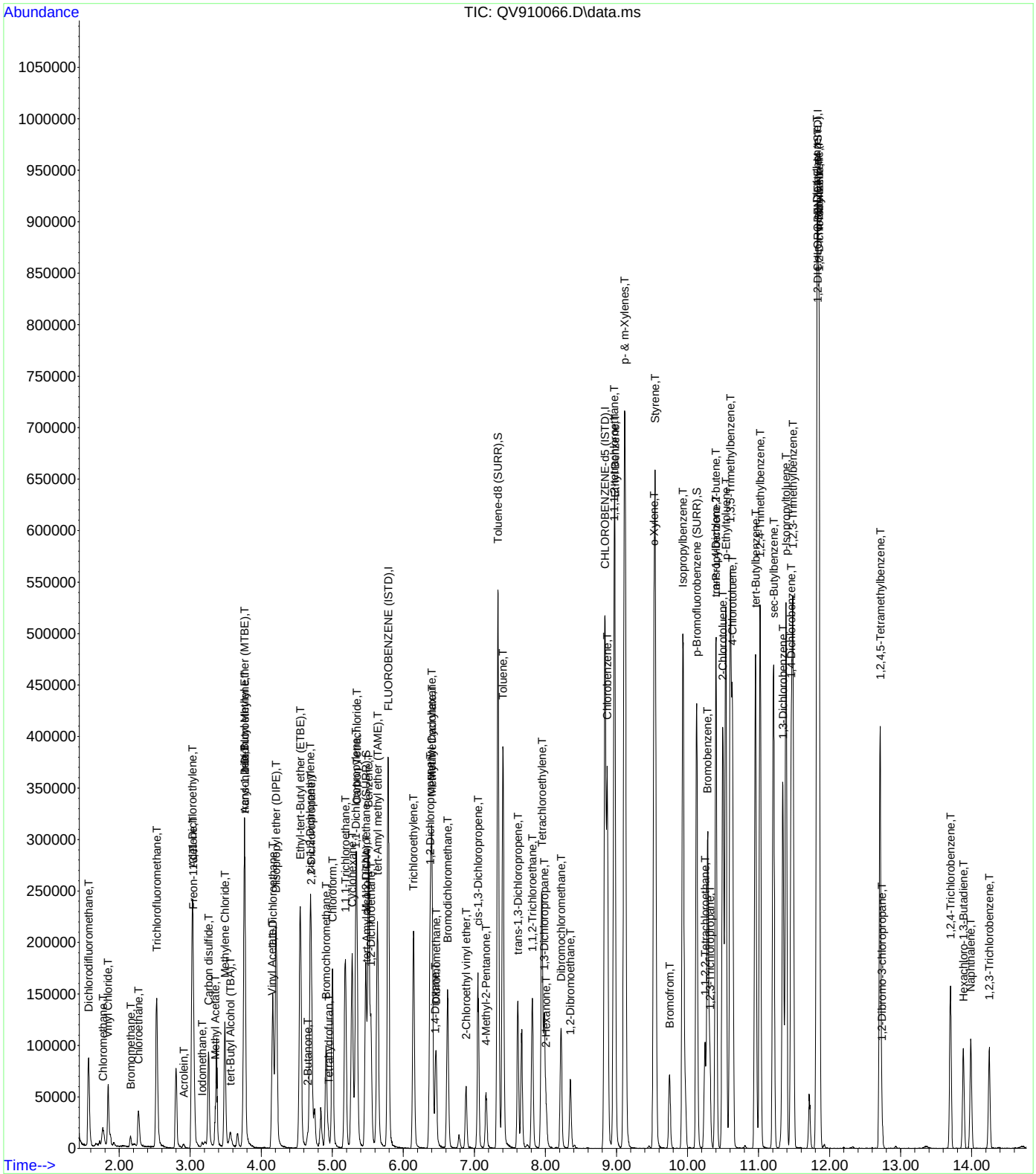
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.612	75	87109	9.11	ppb	#	98
54) 1,1,2-Trichloroethane	7.816	97	45364	8.79	ppb	#	1
55) 1,3-Dichloropropane	7.984	76	81114	8.93	ppb	#	99
56) Tetrachloroethylene	7.952	166	69615	7.78	ppb	#	100
57) 2-Hexanone	8.007	43	21540	8.44	ppb	#	1
58) Dibromochloromethane	8.219	129	61944	9.81	ppb	#	86
59) 1,2-Dibromoethane	8.347	107	44556	9.01	ppb		95
60) Chlorobenzene	8.870	112	192299	8.81	ppb	#	85
61) 1,1,1,2-tetrachloroethane	8.966	131	72592	9.60	ppb	#	48
62) Ethyl Benzene	8.978	91	356684	9.07	ppb		95
63) p- & m-Xylenes	9.114	91	576477	18.27	ppb		92
64) o-Xylene	9.527	91	300330	9.40	ppb		95
65) Styrene	9.545	104	222767	9.68	ppb	#	82
66) Bromofrom	9.748	173	32000	10.00	ppb	#	81
68) p-Ethyltoluene	10.538	105	345908	8.64	ppb	#	97
69) Isopropylbenzene	9.934	105	361704	7.97	ppb	#	89
71) 1,1,2,2-Tetrachloroethane	10.248	83	49390	8.41	ppb	#	97
72) Bromobenzene	10.280	77	142692	8.08	ppb	#	74
73) trans-1,4-Dichloro-2-b...	10.399	75	3173	9.79	ppb	#	1
74) 1,2,3-Trichloropropane	10.318	110	17293	8.98	ppb	#	1
75) n-Propylbenzene	10.402	91	418433	8.07	ppb	#	88
76) 2-Chlorotoluene	10.495	91	276263m	8.69	ppb		
77) 4-Chlorotoluene	10.631	91	308126	8.38	ppb		95
78) 1,3,5-Trimethylbenzene	10.605	105	321727	8.49	ppb	#	61
79) tert-Butylbenzene	10.957	119	254252	7.22	ppb		88
80) 1,2,4-Trimethylbenzene	11.021	105	318563	8.44	ppb		92
81) sec-Butylbenzene	11.213	105	359128	8.63	ppb	#	91
82) 1,3-Dichlorobenzene	11.343	146	142648	8.39	ppb	#	90
83) p-Isopropyltoluene	11.387	119	317865	8.54	ppb		93
84) 1,4-Dichlorobenzene	11.460	146	141995m	8.34	ppb		
85) 1,2,3-Trimethylbenzene	11.483	105	313039	9.14	ppb	#	90
86) p-Diethylbenzene	11.823	105	171965	9.37	ppb	#	61
87) 1,2-Dichlorobenzene	11.852	146	121780	8.48	ppb	#	100
88) n-Butylbenzene	11.849	91	323354	8.46	ppb		96
89) 1,2-Dibromo-3-chloropr...	12.735	75	9677	8.34	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.712	119	234952	8.16	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.703	180	46947	7.08	ppb	#	8
92) Hexachloro-1,3-Butadiene	13.883	225	19637	6.76	ppb	#	59
93) Naphthalene	13.988	128	89298	6.57	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.249	180	28929	6.40	ppb	#	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\020620A\
Data File : QV910066.D
Acq On : 7 Feb 2020 1:33 am
Operator : LLJ
Sample : BB00136-BSD1
Misc : QBQV90020620A
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 07 08:35:38 2020
Quant Method : C:\msdchem\1\methods\VQ9LO022.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Fri Jan 31 12:07:11 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



LCS RAW DATA

SDG: 20B0093
CLASS: VOA
METHOD: EPA 8260C

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407297.D
Acq On : 6 Feb 2020 10:28 am
Operator : SS
Sample : BB00232-BS1
Misc : QBV5020620A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 10:56:19 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.739	70	564424	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.768	117	2059555	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	915680	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.434	65	880673	53.13	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.26%				
53) Toluene-d8 (SURR)	7.273	98	2869663	47.32	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.64%				
73) p-Bromofluorobenzene (...	10.051	95	1221953	48.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.28%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	524266	60.31	ppb	#	70
3) Chloromethane	1.717	50	366843	55.60	ppb		99
4) Vinyl Chloride	1.801	62	444875	59.23	ppb		100
5) Bromomethane	2.106	94	311034	62.87	ppb		82
6) Chloroethane	2.225	64	304846	68.80	ppb		98
7) Trichlorofluoromethane	2.479	101	657685	62.50	ppb		99
9) Freon-113	2.997	101	477717	61.87	ppb		97
10) 1,1-Dichloroethylene	2.984	61	678907	58.19	ppb		92
11) Acrolein	2.881	56	87205	65.92	ppb	#	100
12) Acetone	3.016	43	161509	48.46	ppb		100
13) Iodomethane	3.125	142	497217	71.26	ppb		100
14) Allyl Chloride	3.325	43	341592	53.28	ppb	#	85
15) Methyl Acetate	3.325	43	341592	53.28	ppb		98
16) Carbon disulfide	3.202	76	1280245	57.65	ppb		100
17) tert-Butyl Alcohol (TBA)	3.556	59	302371	259.47	ppb	#	93
18) Methylene Chloride	3.456	49	530028	60.54	ppb		85
19) Acrylonitrile	3.662	53	183240	55.01	ppb	#	65
20) trans-1,2-Dichloroethy...	3.723	61	678398	58.90	ppb		97
21) tert-Butyl Methyl Ethe...	3.717	73	1485300	55.66	ppb	#	100
22) 1,1-Dichloroethane	4.128	63	808689	53.03	ppb	#	100
23) Vinyl Acetate	4.125	43	907215	65.31	ppb		99
24) Diisopropyl ether (DIPE)	4.167	45	1128814	51.32	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.501	59	1368915	54.13	ppb	#	97
26) cis-1,2-Dichloroethylene	4.656	61	751783	54.95	ppb		96
27) 2-Butanone	4.640	72	85195	57.42	ppb		80
28) 2,2-Dichloropropane	4.669	77	681116	53.33	ppb	#	89
29) Tetrahydrofuran	4.897	42	146991	54.86	ppb		82
30) Bromochloromethane	4.878	49	336638	55.17	ppb		96
31) Chloroform	4.968	83	925466	56.16	ppb		99
32) 1,1,1-Trichloroethane	5.132	97	798428	59.77	ppb	#	99
33) Cyclohexane	5.209	56	753336	62.44	ppb	#	90
34) 1,1-Dichloropropylene	5.280	75	737549	55.85	ppb		90
36) Carbon Tetrachloride	5.286	117	578732	59.42	ppb	#	59
37) tert-Amyl alcohol (TAA)	5.460	59	439967	503.16	ppb	#	95
38) 1,2-Dichloroethane	5.508	62	757186	57.00	ppb		100
39) Benzene	5.463	78	2117778	55.46	ppb	#	87
40) tert-Amyl methyl ether...	5.585	73	1380428	51.99	ppb	#	100
42) Trichloroethylene	6.087	95	550866	51.16	ppb		91
43) Methyl Cyclohexane	6.321	83	1004373	51.73	ppb		92
44) Methyl Methacrylate	6.370	69	438785	50.37	ppb	#	99
45) Dibromomethane	6.411	93	321525	49.98	ppb		99
46) Bromodichloromethane	6.579	83	657661	51.56	ppb		99
47) 1,2-Dichloropropane	6.331	63	446767	47.16	ppb		96
48) 1,4-Dioxane	6.398	88	178880	1101.56	ppb	#	100
49) 2-Nitropropane	6.771	43	171017	51.01	ppb		96
50) 2-Chloroethyl vinyl ether	6.845	63	327556	62.84	ppb		99
51) cis-1,3-Dichloropropene	7.003	75	835382	49.64	ppb		97

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407297.D
Acq On : 6 Feb 2020 10:28 am
Operator : SS
Sample : BB00232-BS1
Misc : QBV5020620A
ALS Vial : 3 Sample Multiplier: 1

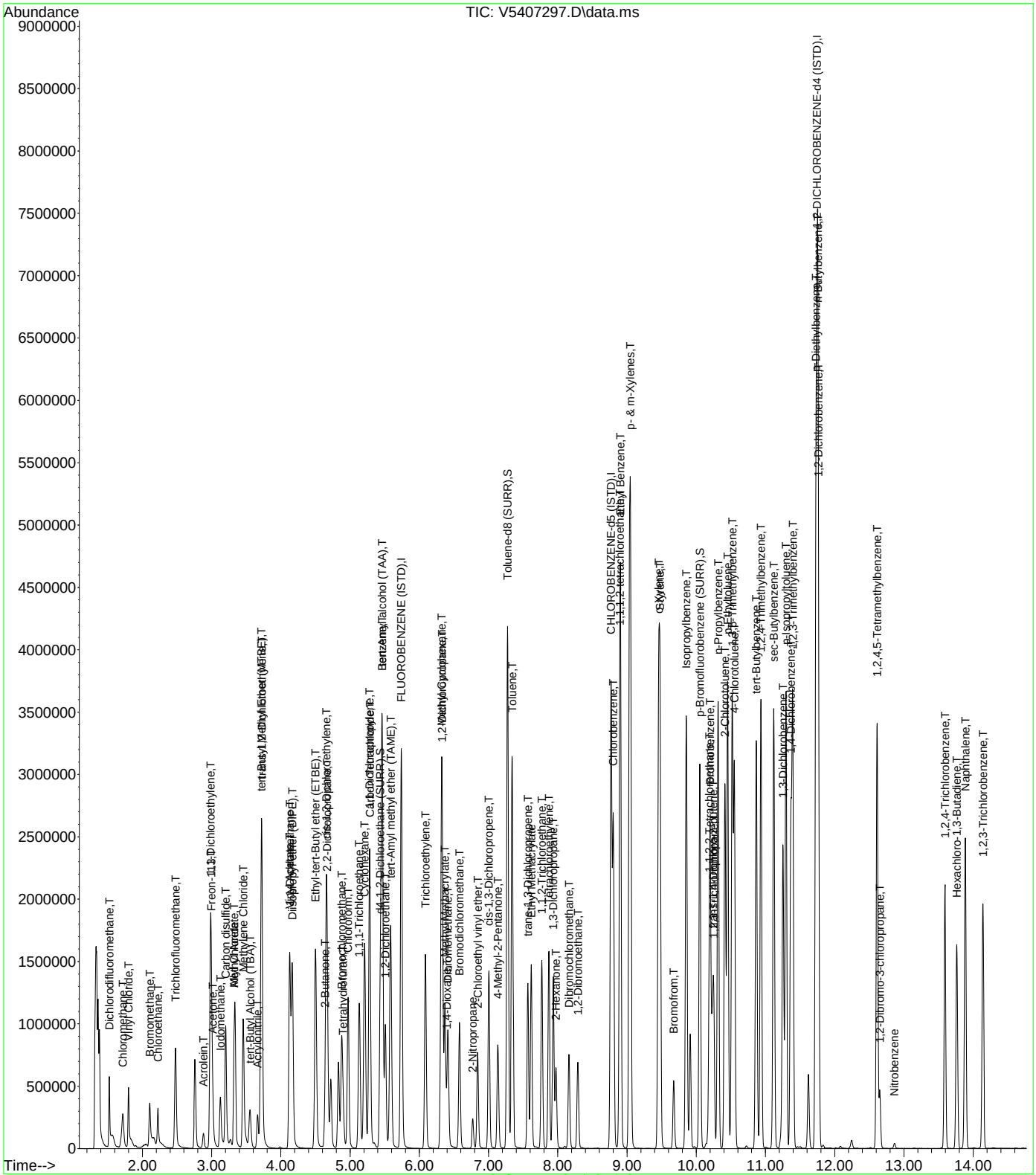
Quant Time: Feb 06 10:56:19 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.135	43	485849	49.99	ppb		90
54) Toluene	7.344	91	2384471	50.74	ppb		100
55) trans-1,3-Dichloropropene	7.569	75	743096	48.57	ppb	#	91
56) Ethyl Methacrylate	7.617	69	791904	51.27	ppb		86
57) 1,1,2-Trichloroethane	7.768	97	483294	49.18	ppb		98
58) 1,3-Dichloropropane	7.935	76	853861	49.06	ppb	#	86
59) Tetrachloroethylene	7.871	166	466457	48.51	ppb	#	78
60) 2-Hexanone	7.974	43	365161	50.58	ppb		91
61) Dibromochloromethane	8.160	129	385790	48.21	ppb		99
62) 1,2-Dibromoethane	8.289	107	496779	52.69	ppb		97
63) Chlorobenzene	8.800	112	1394784	49.97	ppb		96
64) 1,1,1,2-tetrachloroethane	8.894	131	402485	51.70	ppb		98
65) Ethyl Benzene	8.903	91	2695390	51.42	ppb		99
66) p- & m-Xylenes	9.045	91	4299227	103.02	ppb		98
67) o-Xylene	9.456	91	2185771	50.77	ppb		99
68) Styrene	9.476	104	1695215	52.53	ppb		99
69) Bromofrom	9.675	173	235780	45.68	ppb	#	77
71) p-Ethyltoluene	10.453	105	2482058	53.13	ppb	#	100
72) Isopropylbenzene	9.855	105	2555861	47.52	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.186	83	675776	47.18	ppb		99
75) Bromobenzene	10.202	77	1078492	46.59	ppb		97
76) trans-1,4-Dichloro-2-b...	10.247	75	859664	46.52	ppb		96
77) 1,2,3-Trichloropropane	10.254	110	218458	49.27	ppb		96
78) n-Propylbenzene	10.318	91	3094736	47.32	ppb		97
79) 2-Chlorotoluene	10.414	91	1973363	46.72	ppb		98
80) 4-Chlorotoluene	10.549	91	2252849	47.72	ppb		98
81) 1,3,5-Trimethylbenzene	10.520	105	2216175	49.30	ppb		96
82) tert-Butylbenzene	10.868	119	1667442	41.91	ppb		83
83) 1,2,4-Trimethylbenzene	10.935	105	2213095	49.33	ppb		96
84) sec-Butylbenzene	11.119	105	2716852	50.89	ppb		97
85) 1,3-Dichlorobenzene	11.250	146	985239	48.58	ppb		96
86) p-Isopropyltoluene	11.295	119	2237381	49.93	ppb		96
87) 1,4-Dichlorobenzene	11.369	146	995247	48.10	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	2264116	52.39	ppb		96
89) p-Diethylbenzene	11.729	105	1356450	57.67	ppb		91
90) 1,2-Dichlorobenzene	11.765	146	945550	49.20	ppb	#	100
91) n-Butylbenzene	11.755	91	2067544m	44.12	ppb		
93) 1,2-Dibromo-3-chloropr...	12.652	75	135535	41.57	ppb	#	100
94) Nitrobenzene	12.861	77	22603	36.56	ppb		92
95) 1,2,4,5-Tetramethylben...	12.614	119	1999782	51.35	ppb		96
96) 1,2,4-Trichlorobenzene	13.594	180	670893	51.49	ppb		98
97) Hexachloro-1,3-Butadiene	13.765	225	327592	52.01	ppb		98
98) Naphthalene	13.887	128	1972964	51.43	ppb		100
99) 1,2,3-Trichlorobenzene	14.141	180	629044	50.78	ppb		98

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407297.D
Acq On : 6 Feb 2020 10:28 am
Operator : SS
Sample : BB00232-BS1
Misc : QBV5020620A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 10:56:19 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407298.D
Acq On : 6 Feb 2020 10:53 am
Operator : SS
Sample : BB00232-BSD1
Misc : QBV5020620A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 06 11:17:41 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.742	70	572568	50.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.771	117	2080519	50.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.742	152	912762	50.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.437	65	875151	52.05	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.10%				
53) Toluene-d8 (SURR)	7.273	98	2901935	47.37	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.74%				
73) p-Bromofluorobenzene (...	10.054	95	1229877	48.60	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.521	85	509450	57.77	ppb	#	69
3) Chloromethane	1.723	50	354496	52.96	ppb		99
4) Vinyl Chloride	1.800	62	432010	56.70	ppb		100
5) Bromomethane	2.106	94	308082	61.39	ppb		77
6) Chloroethane	2.225	64	305692	68.01	ppb		98
7) Trichlorofluoromethane	2.479	101	647538	60.66	ppb		99
8) Ethanol	2.762	45	218164	2054.51	ppb		100
9) Freon-113	2.997	101	470065	60.01	ppb		97
10) 1,1-Dichloroethylene	2.984	61	675086	57.04	ppb		93
11) Acrolein	2.884	56	80920	60.30	ppb	#	100
12) Acetone	3.016	43	152600	45.13	ppb		100
13) Iodomethane	3.128	142	488981	69.08	ppb		99
14) Allyl Chloride	3.325	43	328319	50.48	ppb	#	81
15) Methyl Acetate	3.325	43	328319	50.48	ppb		98
16) Carbon disulfide	3.202	76	1274191	56.56	ppb		100
17) tert-Butyl Alcohol (TBA)	3.553	59	283538	239.85	ppb	#	93
18) Methylene Chloride	3.460	49	519578	58.50	ppb		84
19) Acrylonitrile	3.665	53	178287	52.76	ppb		99
20) trans-1,2-Dichloroethy...	3.723	61	670074	57.35	ppb		97
21) tert-Butyl Methyl Ethe...	3.717	73	1466618	54.18	ppb	#	100
22) 1,1-Dichloroethane	4.128	63	805246	52.05	ppb	#	100
23) Vinyl Acetate	4.125	43	877256	62.26	ppb		99
24) Diisopropyl ether (DIPE)	4.167	45	1111775	49.82	ppb		96
25) Ethyl-tert-Butyl ether...	4.501	59	1362179	53.10	ppb	#	97
26) cis-1,2-Dichloroethylene	4.659	61	740582	53.36	ppb		95
27) 2-Butanone	4.636	72	81804	54.35	ppb		81
28) 2,2-Dichloropropane	4.669	77	684220	52.81	ppb	#	77
29) Tetrahydrofuran	4.900	42	134446	49.46	ppb		79
30) Bromochloromethane	4.878	49	330592	53.40	ppb		96
31) Chloroform	4.971	83	921077	55.09	ppb	#	94
32) 1,1,1-Trichloroethane	5.135	97	791724	58.43	ppb	#	99
33) Cyclohexane	5.212	56	740192	60.47	ppb		90
34) 1,1-Dichloropropylene	5.283	75	722905	53.97	ppb		91
36) Carbon Tetrachloride	5.286	117	568911	57.58	ppb	#	59
37) tert-Amyl alcohol (TAA)	5.460	59	414374	467.15	ppb	#	96
38) 1,2-Dichloroethane	5.511	62	748223	55.53	ppb	#	98
39) Benzene	5.463	78	2088309	53.91	ppb	#	88
40) tert-Amyl methyl ether...	5.585	73	1368241	50.80	ppb	#	99
42) Trichloroethylene	6.086	95	550538	50.61	ppb		91
43) Methyl Cyclohexane	6.321	83	990941	50.52	ppb		92
44) Methyl Methacrylate	6.369	69	424934	48.29	ppb	#	99
45) Dibromomethane	6.414	93	321480	49.47	ppb		99
46) Bromodichloromethane	6.582	83	653965	50.75	ppb		98
47) 1,2-Dichloropropane	6.331	63	444386	46.44	ppb		96
48) 1,4-Dioxane	6.402	88	160439	978.05	ppb	#	100
49) 2-Nitropropane	6.775	43	164286	48.51	ppb		98
50) 2-Chloroethyl vinyl ether	6.845	63	319770	60.73	ppb		99

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407298.D
Acq On : 6 Feb 2020 10:53 am
Operator : SS
Sample : BB00232-BSD1
Misc : QBV5020620A
ALS Vial : 4 Sample Multiplier: 1

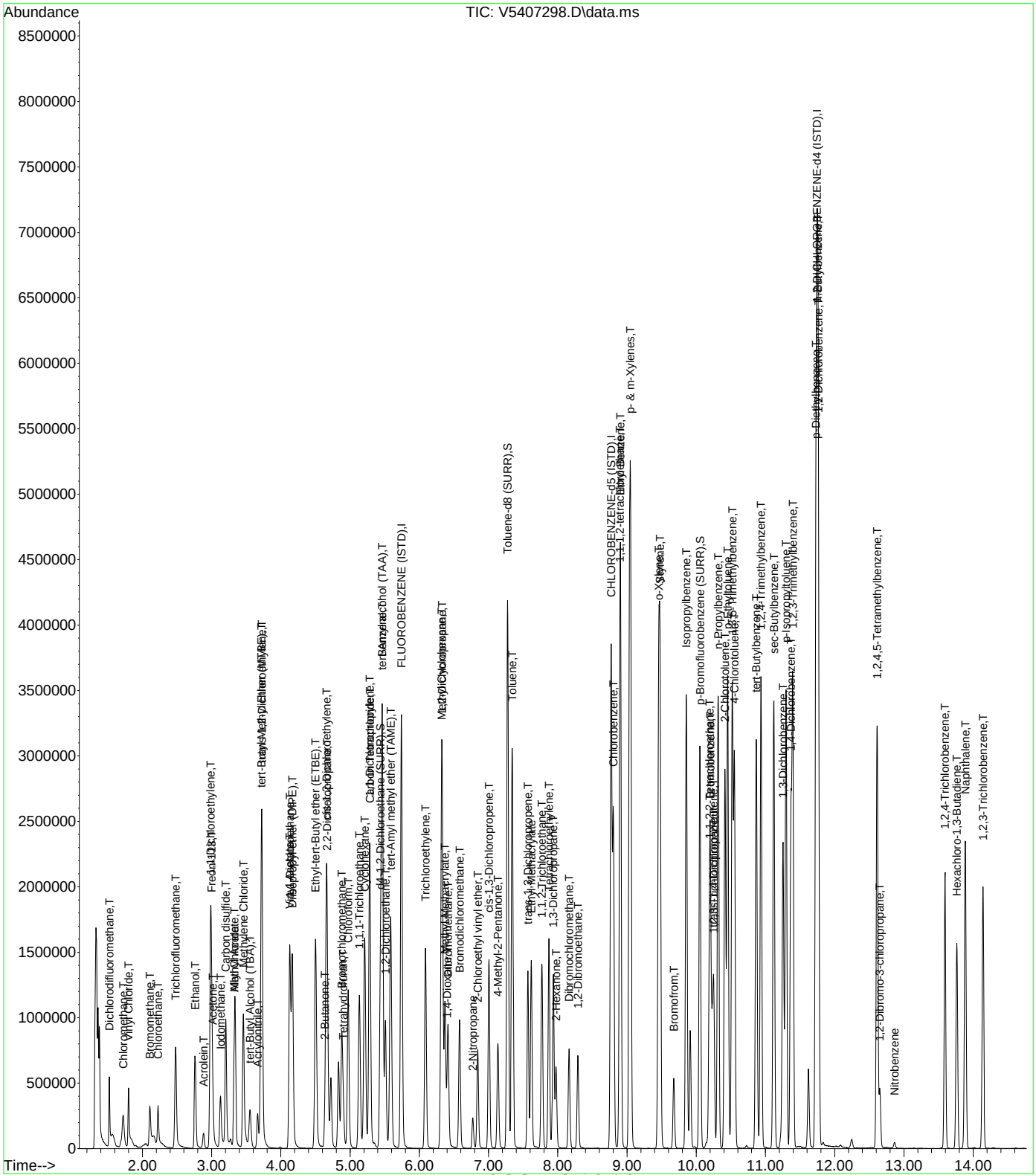
Quant Time: Feb 06 11:17:41 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51) cis-1,3-Dichloropropene	7.006	75	831360	48.90	ppb		96
52) 4-Methyl-2-Pentanone	7.135	43	465648	47.42	ppb		89
54) Toluene	7.344	91	2338169	49.25	ppb		100
55) trans-1,3-Dichloropropene	7.569	75	745733	48.25	ppb	#	100
56) Ethyl Methacrylate	7.617	69	777846	49.85	ppb		86
57) 1,1,2-Trichloroethane	7.768	97	478056	48.16	ppb		97
58) 1,3-Dichloropropane	7.935	76	842445	47.92	ppb	#	100
59) Tetrachloroethylene	7.871	166	458233	47.17	ppb	#	78
60) 2-Hexanone	7.977	43	345784	47.41	ppb		89
61) Dibromochloromethane	8.164	129	382605	47.40	ppb		99
62) 1,2-Dibromoethane	8.289	107	488241	51.26	ppb		97
63) Chlorobenzene	8.803	112	1390149	49.30	ppb		97
64) 1,1,1,2-tetrachloroethane	8.897	131	400740	50.96	ppb		98
65) Ethyl Benzene	8.903	91	2670114	50.42	ppb		99
66) p- & m-Xylenes	9.045	91	4229032	100.32	ppb		98
67) o-Xylene	9.456	91	2162885	49.73	ppb		99
68) Styrene	9.475	104	1667060	51.14	ppb		99
69) Bromofrom	9.678	173	234917	45.13	ppb	#	77
71) p-Ethyltoluene	10.453	105	2438190	52.36	ppb	#	99
72) Isopropylbenzene	9.855	105	2506274	46.74	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.189	83	659849	46.22	ppb		99
75) Bromobenzene	10.205	77	1076273	46.64	ppb		96
76) trans-1,4-Dichloro-2-b...	10.250	75	833381	45.25	ppb		96
77) 1,2,3-Trichloropropane	10.254	110	212986	48.19	ppb		100
78) n-Propylbenzene	10.318	91	3060190	46.94	ppb		98
79) 2-Chlorotoluene	10.414	91	1898977	45.10	ppb		98
80) 4-Chlorotoluene	10.549	91	2220770	47.19	ppb		98
81) 1,3,5-Trimethylbenzene	10.520	105	2180517	48.66	ppb		96
82) tert-Butylbenzene	10.868	119	1653565	41.69	ppb		84
83) 1,2,4-Trimethylbenzene	10.935	105	2178682	48.72	ppb		96
84) sec-Butylbenzene	11.122	105	2677101	50.30	ppb		97
85) 1,3-Dichlorobenzene	11.250	146	972551	48.11	ppb		95
86) p-Isopropyltoluene	11.295	119	2203838	49.34	ppb		96
87) 1,4-Dichlorobenzene	11.369	146	991060	48.05	ppb		95
88) 1,2,3-Trimethylbenzene	11.395	105	2230635	51.78	ppb		96
89) p-Diethylbenzene	11.726	105	1336066	56.98	ppb		91
90) 1,2-Dichlorobenzene	11.765	146	928662	48.47	ppb	#	100
91) n-Butylbenzene	11.755	91	1905459m	40.79	ppb		
93) 1,2-Dibromo-3-chloropr...	12.649	75	136992	42.08	ppb	#	100
94) Nitrobenzene	12.864	77	23688	38.02	ppb		95
95) 1,2,4,5-Tetramethylben...	12.614	119	1956787	50.41	ppb		96
96) 1,2,4-Trichlorobenzene	13.591	180	657170	50.60	ppb		98
97) Hexachloro-1,3-Butadiene	13.765	225	317788	50.62	ppb		98
98) Naphthalene	13.887	128	1904071	49.79	ppb		100
99) 1,2,3-Trichlorobenzene	14.141	180	619201	50.14	ppb		98

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

Data Path : C:\msdchem\1\data\V5020620\
Data File : V5407298.D
Acq On : 6 Feb 2020 10:53 am
Operator : SS
Sample : BB00232-BSD1
Misc : QBV5020620A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 06 11:17:41 2020
Quant Method : C:\msdchem\1\methods\V5C00226.M
Quant Title : Volatile Organics EPA 8260C-SOIL
QLast Update : Mon Dec 30 11:12:06 2019
Response via : Initial Calibration
InstName : VOA No. 5
DataAcq Meth:VOA5ACQ.M



BENCHSHEETS

SDG: 20B0093

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BB00136

Prepared: **02/04/2020 15:17**

York Analytical Laboratories, Inc.

Printed: 2/10/2020 9:48:38AM

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
20A1108-18RE1 C	VOA, 8260 LOW M	25	25							<2	NA		From BB00110 by TMP on 02/07/2020
20B0022-01 B	Volatile Organics, C	25	25							<2	NA		
20B0022-02 B	Volatile Organics, C	25	25							<2	NA		
20B0022-03 B	Volatile Organics, C	25	25							<2	NA		
20B0022-04 B	Volatile Organics, C	25	25							<2	NA		
20B0022-05 B	Volatile Organics, C	25	25							<2	NA		
20B0022-06 B	Volatile Organics, C	25	25							<2	NA		
20B0035-02 B	Volatile Organics, C	25	25							<2	NA		
20B0035-03 B	Volatile Organics, C	25	25							<2	NA		
20B0046-15 D	Volatile Organics, S	25	25							<2	NA		
20B0046-16 A	Volatile Organics, S	25	25							<2	NA		
20B0052-02 B	Volatile Organics, H	25	25							<2	NA		
20B0052-02 B	Volatile Organics, C	25	25							<2	NA		
20B0052-03 B	Volatile Organics, C	25	25							<2	NA		
20B0052-03 B	Volatile Organics, H	25	25							<2	NA		
20B0052-04 B	Volatile Organics, C	25	25							<2	NA		
20B0052-04 B	Volatile Organics, H	25	25							<2	NA		
20B0052-05 B	Volatile Organics, C	25	25							<2	NA		
20B0052-05 B	Volatile Organics, H	25	25							<2	NA		
20B0093-04 D	Volatile Organics, S	25	25							<2	NA		
20B0097-06 A	VOA, 8260 LOW M	25	25							<2	NA		
BB00136-BLK1	QC	25	25										
BB00136-BS1	QC	25	25	Y20A416	5								
BB00136-BSD1	QC	25	25	Y20A416	5								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by **LLJ** **Date:** **02/05/2020 19:08**

BENCHSHEETS

SDG: 20B0093

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00232

Preparation Date: 02/06/2020 07:30

York Analytical Laboratories, Inc. **Printed: 2/12/2020 9:40:32AM**

Matrix: Soil **Preparation: EPA 5035A** **Surrogate used: Y19H537 1 ul**

Lab Number	Analysis	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	Comments
20B0040-01 C	Volatile Organics, 8260 List	5.32	5				From BB00174 by MAT on (
20B0043-01 C	Volatile Organics, 8260 - Comprehensive	7.46	5				From BB00174 by MAT on (
20B0054-01 D	Volatile Organics, 8260 - Comprehensive	5.7	5				From BB00174 by MAT on (
20B0054-01 D	Volatile Organics, Tentatively Identified Cmpds	5.7	5				From BB00174 by MAT on (
20B0054-02 D	Volatile Organics, 8260 - Comprehensive	5.51	5				From BB00174 by MAT on (
20B0054-02 D	Volatile Organics, Tentatively Identified Cmpds	5.51	5				From BB00174 by MAT on (
20B0071-09 B	Volatile Organics, CP-51 (formerly STARS) Lis	4.59	5				From BB00175 by MAT on (
20B0071-10 B	Volatile Organics, CP-51 (formerly STARS) Lis	5.53	5				From BB00175 by MAT on (
20B0071-11 B	Volatile Organics, CP-51 (formerly STARS) Lis	4.93	5				From BB00175 by MAT on (
20B0071-12 B	Volatile Organics, CP-51 (formerly STARS) Lis	4.75	5				From BB00175 by MAT on (
20B0093-01 A	Volatile Organics, 8260 - Comprehensive	5.97	5				From BB00174 by MAT on (
20B0093-02 A	Volatile Organics, 8260 - Comprehensive	4.94	5				From BB00174 by MAT on (
20B0093-03 A	Volatile Organics, 8260 - Comprehensive	6.02	5				From BB00174 by MAT on (
20B0093-05 A	Volatile Organics, 8260 - Comprehensive	5.2	5				From BB00174 by MAT on (
20B0093-06 A	Volatile Organics, 8260 - Comprehensive	6.08	5				From BB00174 by MAT on (
20B0093-06RE1 A	Volatile Organics, 8260 List	5	5				Added for BatchQC in: BB0
20B0093-06RE1 A	Volatile Organics, CP-51 (formerly STARS) Lis	5	5				Added for BatchQC in: BB0
20B0093-06RE1 A	Volatile Organics, Tentatively Identified Cmpds	5	5				Added for BatchQC in: BB0
20B0093-07 A	Volatile Organics, 8260 - Comprehensive	5.15	5				From BB00174 by MAT on (
20B0153-01 E	Volatile Organics, 8260 - Comprehensive	6.72	5				
20B0153-01 E	Volatile Organics, Tentatively Identified Cmpds	6.72	5				
BB00232-BLK1	QC	5	5				
BB00232-BLK2	QC	5	5				
BB00232-BS1	QC	5	5	Y20B031		5	
BB00232-BSD1	QC	5	5	Y20B031		5	
BB00232-MS1	QC	4.69	5	Y20B031	20B0093-06	5	
BB00232-MSD1	QC	5.98	5	Y20B031	20B0093-06	5	

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y17B088	VOA - Ottawa Sand Mix	051215	Y19D203	Methanol - P&T Grade	DV597-US

Preparations Performed by **MAT** **Date:** **02/06/2020 07:30**

York Analytical Laboratories, Inc.
SDG: 20B0093
CLASS: SVOA
METHOD: EPA 8270D

DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093

Client: Roux Associates
Project: 3475.00014000 Lafayette

Client Sample Id:	Lab Sample Id:
SB-1 (0-2)	20B0093-01
SB-1 (11-13)	20B0093-02
SB-1 (11-13)	20B0093-02RE1
SB-1 (11-13)	20B0093-02RE2
SB-1 (11-13)	20B0093-02RE3
SB-3 (0-2)	20B0093-03
SB-3 (0-2)	20B0093-03RE1
SB-3 (13-15)	20B0093-05
SB-4 (0-2)	20B0093-06
SB-4 (13-15)	20B0093-07

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: 2/21/2020

Title: Laboratory Director

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

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1101 Instrument: BNA#6

Calibration: YL90003

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1101-CCV1)				Lab File ID: SV628939.D		Analyzed: 02/10/20 15:38		
SURR: 2-Fluorophenol	30.0	89.7	0 - 200	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	30.0	94.2	0 - 200	4.59	4.6675	-0.0775	+/-1.00	
SURR: Nitrobenzene-d5	30.0	95.8	0 - 200	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	30.0	99.0	0 - 200	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	30.0	128	0 - 200	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	30.0	92.7	0 - 200	12.25	12.44	-0.1900	+/-1.00	
Blank (BB00363-BLK1)				Lab File ID: SV628940.D		Analyzed: 02/10/20 16:10		
SURR: 2-Fluorophenol	1660	57.0	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	1660	58.8	23 - 114	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	831	70.4	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	831	74.6	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	1660	97.2	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	831	82.9	24 - 116	12.25	12.44	-0.1900	+/-1.00	
LCS (BB00363-BS1)				Lab File ID: SV628941.D		Analyzed: 02/10/20 16:42		
SURR: 2-Fluorophenol	1660	50.3	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	1660	54.1	23 - 114	4.59	4.6675	-0.0775	+/-1.00	
SURR: Nitrobenzene-d5	831	62.0	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	831	65.7	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	1660	86.2	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	831	70.9	24 - 116	12.25	12.44	-0.1900	+/-1.00	
SB-1 (0-2) (20B0093-01)				Lab File ID: SV628951.D		Analyzed: 02/10/20 21:59		
SURR: 2-Fluorophenol	2050	55.7	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	2050	63.5	23 - 114	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	1030	70.6	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	1030	69.6	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2050	106	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	1030	77.4	24 - 116	12.25	12.44	-0.1900	+/-1.00	
SB-1 (11-13) (20B0093-02)				Lab File ID: SV628952.D		Analyzed: 02/10/20 22:32		
SURR: 2-Fluorophenol	2130	54.2	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	2130	58.6	23 - 114	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	1060	68.8	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	1060	62.8	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2130	94.6	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	1060	69.4	24 - 116	12.29	12.44	-0.1500	+/-1.00	

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

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1101 Instrument: BNA#6

Calibration: YL90003

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SB-3 (0-2) (20B0093-03)			Lab File ID: SV628953.D		Analyzed: 02/10/20 23:03			
SURR: 2-Fluorophenol	2840	53.9	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	2840	64.3	23 - 114	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	1420	65.1	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	1420	71.0	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2840	116	19 - 110	8.19	8.33	-0.1400	+/-1.00	*
SURR: Terphenyl-d14	1420	88.6	24 - 116	12.26	12.44	-0.1800	+/-1.00	
SB-3 (13-15) (20B0093-05)			Lab File ID: SV628954.D		Analyzed: 02/10/20 23:35			
SURR: 2-Fluorophenol	2030	56.8	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	2030	57.5	23 - 114	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	1010	70.2	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	1010	64.6	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2030	103	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	1010	63.9	24 - 116	12.26	12.44	-0.1800	+/-1.00	
SB-4 (0-2) (20B0093-06)			Lab File ID: SV628955.D		Analyzed: 02/11/20 00:07			
SURR: 2-Fluorophenol	1820	54.2	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	1820	65.6	23 - 114	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	910	70.1	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	910	72.1	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	1820	110	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	910	78.1	24 - 116	12.26	12.44	-0.1800	+/-1.00	
Matrix Spike (BB00363-MS1)			Lab File ID: SV628956.D		Analyzed: 02/11/20 00:39			
SURR: 2-Fluorophenol	1870	44.0	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	1870	47.0	23 - 114	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	934	57.6	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	934	56.5	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	1870	78.0	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	934	64.6	24 - 116	12.26	12.44	-0.1800	+/-1.00	
Matrix Spike Dup (BB00363-MSD1)			Lab File ID: SV628957.D		Analyzed: 02/11/20 01:11			
SURR: 2-Fluorophenol	1870	55.8	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	1870	61.5	23 - 114	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	934	67.3	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	934	67.9	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	1870	110	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	934	81.4	24 - 116	12.26	12.44	-0.1800	+/-1.00	

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

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B1101
Instrument: BNA#6
Calibration: YL90003

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SB-4 (13-15) (20B0093-07)			Lab File ID: SV628958.D		Analyzed: 02/11/20 01:43			
SURR: 2-Fluorophenol	2180	46.3	20 - 108	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	2180	52.9	23 - 114	4.61	4.6675	-0.0575	+/-1.00	
SURR: Nitrobenzene-d5	1090	57.4	22 - 108	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	1090	60.6	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2180	101	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	1090	71.8	24 - 116	12.27	12.44	-0.1700	+/-1.00	

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

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1127 Instrument: BNA#6

Calibration: YL90003

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1127-CCV1)				Lab File ID: SV628961.D		Analyzed: 02/11/20 08:30		
SURR: 2-Fluorophenol	30.0	92.5	0 - 200	3.88	3.98	-0.1000	+/-1.00	
SURR: Phenol-d5	30.0	94.8	0 - 200	4.6	4.6675	-0.0675	+/-1.00	
SURR: Nitrobenzene-d5	30.0	99.3	0 - 200	5.24	5.34125	-0.1012	+/-1.00	
SURR: 2-Fluorobiphenyl	30.0	103	0 - 200	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	30.0	136	0 - 200	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	30.0	94.9	0 - 200	12.26	12.44	-0.1800	+/-1.00	
SB-1 (11-13) (20B0093-02RE2)				Lab File ID: SV628964.D		Analyzed: 02/11/20 10:06		
SURR: 2-Fluorophenol	2130	48.0	20 - 108	3.89	3.98	-0.0900	+/-1.00	
SURR: Phenol-d5	2130	49.0	23 - 114	4.62	4.6675	-0.0475	+/-1.00	
SURR: Nitrobenzene-d5	1060	66.0	22 - 108	5.25	5.34125	-0.0912	+/-1.00	
SURR: 2-Fluorobiphenyl	1060	68.0	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2130	88.0	19 - 110	8.19	8.33	-0.1400	+/-1.00	
SURR: Terphenyl-d14	1060	84.0	24 - 116	12.26	12.44	-0.1800	+/-1.00	
SB-1 (11-13) (20B0093-02RE1)				Lab File ID: SV628965.D		Analyzed: 02/11/20 10:38		
SURR: 2-Fluorophenol	2130	43.8	20 - 108	3.89	3.98	-0.0900	+/-1.00	
SURR: Phenol-d5	2130	64.4	23 - 114	4.61	4.6675	-0.0575	+/-1.00	
SURR: Nitrobenzene-d5	1060	83.6	22 - 108	5.25	5.34125	-0.0912	+/-1.00	
SURR: 2-Fluorobiphenyl	1060	70.8	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2130	107	19 - 110	8.2	8.33	-0.1300	+/-1.00	
SURR: Terphenyl-d14	1060	78.8	24 - 116	12.26	12.44	-0.1800	+/-1.00	
SB-3 (0-2) (20B0093-03RE1)				Lab File ID: SV628966.D		Analyzed: 02/11/20 11:09		
SURR: 2-Fluorophenol	2840	57.8	20 - 108	3.89	3.98	-0.0900	+/-1.00	
SURR: Phenol-d5	2840	67.9	23 - 114	4.61	4.6675	-0.0575	+/-1.00	
SURR: Nitrobenzene-d5	1420	65.6	22 - 108	5.25	5.34125	-0.0912	+/-1.00	
SURR: 2-Fluorobiphenyl	1420	74.4	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2840	120	19 - 110	8.19	8.33	-0.1400	+/-1.00	*
SURR: Terphenyl-d14	1420	91.4	24 - 116	12.26	12.44	-0.1800	+/-1.00	
SB-1 (11-13) (20B0093-02RE3)				Lab File ID: SV628967.D		Analyzed: 02/11/20 11:41		
SURR: 2-Fluorophenol	2130		20 - 108	0	3.98	-3.9800	+/-1.00	*
SURR: Phenol-d5	2130	48.0	23 - 114	4.63	4.6675	-0.0375	+/-1.00	
SURR: Nitrobenzene-d5	1060		22 - 108	0	5.34125	-5.3413	+/-1.00	*
SURR: 2-Fluorobiphenyl	1060	88.0	21 - 113	6.58	6.7	-0.1200	+/-1.00	
SURR: 2,4,6-Tribromophenol	2130		19 - 110	0	8.33	-8.3300	+/-1.00	*
SURR: Terphenyl-d14	1060	112	24 - 116	12.26	12.44	-0.1800	+/-1.00	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00363
Laboratory ID: BB00363-MS1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 1 mL
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
1,1-Biphenyl	934	ND	549	58.7	24 - 112
1,2,4,5-Tetrachlorobenzene	944	ND	651	69.0	18 - 152
1,2,4-Trichlorobenzene	934	ND	631	67.5	15 - 139
1,2-Dichlorobenzene	934	ND	490	52.5	29 - 106
1,2-Diphenylhydrazine (as Azobenzene)	934	ND	481	51.4	10 - 135
1,3-Dichlorobenzene	934	ND	477	51.0	34 - 100
1,4-Dichlorobenzene	934	ND	523	56.0	26 - 107
2,3,4,6-Tetrachlorophenol	934	ND	751	80.4	30 - 130
2,4,5-Trichlorophenol	934	ND	562	60.2	10 - 148
2,4,6-Trichlorophenol	934	ND	691	74.0	12 - 138
2,4-Dichlorophenol	934	ND	645	69.0	16 - 144
2,4-Dimethylphenol	934	ND	467	50.0	11 - 133
2,4-Dinitrophenol	934	ND	ND	*	10 - 132
2,4-Dinitrotoluene	934	ND	575	61.5	42 - 113
2,6-Dinitrotoluene	934	ND	546	58.5	36 - 124
2-Chloronaphthalene	934	ND	567	60.7	31 - 116
2-Chlorophenol	934	ND	521	55.8	28 - 114
2-Methylnaphthalene	934	ND	680	72.8	10 - 143
2-Methylphenol	934	ND	497	53.2	10 - 160
2-Nitroaniline	934	ND	617	66.0	33 - 122
2-Nitrophenol	934	ND	448	47.9	12 - 127
3- & 4-Methylphenols	934	ND	451	48.3	16 - 115
3,3-Dichlorobenzidine	934	ND	404	43.2	10 - 134
3-Nitroaniline	934	ND	617	66.1	24 - 128
4,6-Dinitro-2-methylphenol	934	ND	ND	*	10 - 149
4-Bromophenyl phenyl ether	934	ND	626	67.0	32 - 148
4-Chloro-3-methylphenol	934	ND	623	66.6	14 - 138
4-Chloroaniline	934	ND	518	55.4	10 - 124
4-Chlorophenyl phenyl ether	934	ND	646	69.1	10 - 153
4-Nitroaniline	934	ND	694	74.2	10 - 151
4-Nitrophenol	934	ND	638	68.3	10 - 141

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00363
Laboratory ID: BB00363-MS1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 1 mL
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
Acenaphthene	934	ND	603	64.6	13 - 133
Acenaphthylene	934	346	863	55.4	25 - 125
Acetophenone	934	ND	513	54.9	25 - 105
Aniline	934	ND	395	42.2	10 - 112
Anthracene	934	206	765	59.8	27 - 128
Atrazine	934	ND	519	55.5	10 - 139
Benzaldehyde	934	ND	584	62.5	24 - 96
Benzo(a)anthracene	934	631	1130	53.3	20 - 147
Benzo(a)pyrene	934	799	1400	64.8	18 - 153
Benzo(b)fluoranthene	934	765	1430	70.8	10 - 163
Benzo(g,h,i)perylene	934	698	1180	52.0	10 - 157
Benzo(k)fluoranthene	934	650	1250	63.7	10 - 157
Benzoic acid	934	ND	127	13.6	10 - 130
Benzyl alcohol	934	ND	522	55.9	20 - 122
Benzyl butyl phthalate	934	ND	467	50.0	10 - 129
Bis(2-chloroethoxy)methane	934	ND	528	56.5	12 - 128
Bis(2-chloroethyl)ether	934	ND	505	54.1	18 - 113
Bis(2-chloroisopropyl)ether	934	ND	604	64.6	10 - 130
Bis(2-ethylhexyl)phthalate	934	ND	484	51.8	10 - 138
Caprolactam	934	ND	590	63.1	10 - 100
Carbazole	934	135	688	59.1	24 - 139
Chrysene	934	768	1370	64.4	18 - 133
Dibenzo(a,h)anthracene	934	281	1130	90.8	10 - 146
Dibenzofuran	934	ND	639	68.4	26 - 134
Diethyl phthalate	934	ND	582	62.2	30 - 119
Dimethyl phthalate	934	ND	583	62.4	34 - 120
Di-n-butyl phthalate	934	ND	517	55.4	20 - 128
Di-n-octyl phthalate	934	ND	573	61.4	10 - 133
Fluoranthene	934	1610	2130	56.5	10 - 155
Fluorene	934	56.8	684	67.1	12 - 150
Hexachlorobenzene	934	ND	541	57.9	16 - 142
Hexachlorobutadiene	934	ND	718	76.8	11 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00363	Laboratory ID:	BB00363-MS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
Hexachlorocyclopentadiene	934	ND	ND	*	10 - 115
Hexachloroethane	934	ND	364	39.0	14 - 106
Indeno(1,2,3-cd)pyrene	934	617	1180	60.3	10 - 155
Isophorone	934	ND	605	64.8	14 - 127
Naphthalene	934	ND	592	63.4	15 - 132
Nitrobenzene	934	ND	596	63.8	18 - 125
N-Nitrosodimethylamine	934	ND	449	48.1	10 - 123
N-nitroso-di-n-propylamine	934	ND	569	60.9	23 - 115
N-Nitrosodiphenylamine	934	ND	647	69.2	16 - 166
Pentachlorophenol	934	ND	603	64.6	10 - 160
Phenanthrene	934	840	1340	53.3	10 - 151
Phenol	934	ND	548	58.6	11 - 124
Pyrene	934	1120	1580	48.9	13 - 148

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

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00363
Laboratory ID: BB00363-MSD1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 1 mL
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Biphenyl	934	650	69.5	16.8	30	24 - 112
1,2,4,5-Tetrachlorobenzene	944	760	80.6	15.5	30	18 - 152
1,2,4-Trichlorobenzene	934	746	79.8	16.7	30	15 - 139
1,2-Dichlorobenzene	934	582	62.3	17.1	30	29 - 106
1,2-Diphenylhydrazine (as Azobenzene)	934	592	63.4	20.8	30	10 - 135
1,3-Dichlorobenzene	934	566	60.6	17.1	30	34 - 100
1,4-Dichlorobenzene	934	585	62.6	11.2	30	26 - 107
2,3,4,6-Tetrachlorophenol	934	957	102	24.1	30	30 - 130
2,4,5-Trichlorophenol	934	717	76.7	24.2	30	10 - 148
2,4,6-Trichlorophenol	934	822	88.0	17.3	30	12 - 138
2,4-Dichlorophenol	934	784	83.9	19.5	30	16 - 144
2,4-Dimethylphenol	934	533	57.0	13.2	30	11 - 133
2,4-Dinitrophenol	934	ND	*		30	10 - 132
2,4-Dinitrotoluene	934	670	71.7	15.3	30	42 - 113
2,6-Dinitrotoluene	934	686	73.4	22.7	30	36 - 124
2-Chloronaphthalene	934	646	69.1	12.9	30	31 - 116
2-Chlorophenol	934	613	65.6	16.2	30	28 - 114
2-Methylnaphthalene	934	754	80.7	10.3	30	10 - 143
2-Methylphenol	934	578	61.8	15.0	30	10 - 160
2-Nitroaniline	934	750	80.2	19.5	30	33 - 122
2-Nitrophenol	934	550	58.9	20.5	30	12 - 127
3- & 4-Methylphenols	934	518	55.4	13.7	30	16 - 115
3,3-Dichlorobenzidine	934	448	47.9	10.4	30	10 - 134
3-Nitroaniline	934	731	78.2	16.9	30	24 - 128
4,6-Dinitro-2-methylphenol	934	ND	*		30	10 - 149
4-Bromophenyl phenyl ether	934	798	85.4	24.0	30	32 - 148
4-Chloro-3-methylphenol	934	747	79.9	18.1	30	14 - 138
4-Chloroaniline	934	571	61.1	9.75	30	10 - 124
4-Chlorophenyl phenyl ether	934	761	81.4	16.4	30	10 - 153
4-Nitroaniline	934	804	86.0	14.7	30	10 - 151
4-Nitrophenol	934	762	81.5	17.6	30	10 - 141
Acenaphthene	934	724	77.4	18.1	30	13 - 133

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00363
Laboratory ID: BB00363-MSD1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 1 mL
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthylene	934	922	61.6	6.53	30	25 - 125
Acetophenone	934	631	67.5	20.7	30	25 - 105
Aniline	934	484	51.8	20.4	30	10 - 112
Anthracene	934	939	78.4	20.4	30	27 - 128
Atrazine	934	708	75.8	30.8 *	30	10 - 139
Benzaldehyde	934	703	75.2	18.5	30	24 - 96
Benzo(a)anthracene	934	1260	67.6	11.2	30	20 - 147
Benzo(a)pyrene	934	1520	76.9	7.77	30	18 - 153
Benzo(b)fluoranthene	934	1550	83.9	8.19	30	10 - 163
Benzo(g,h,i)perylene	934	1410	75.7	17.2	30	10 - 157
Benzo(k)fluoranthene	934	1270	66.6	2.14	30	10 - 157
Benzoic acid	934	88.9	9.52 *	35.3 *	30	10 - 130
Benzyl alcohol	934	706	75.6	29.9	30	20 - 122
Benzyl butyl phthalate	934	567	60.6	19.2	30	10 - 129
Bis(2-chloroethoxy)methane	934	612	65.5	14.8	30	12 - 128
Bis(2-chloroethyl)ether	934	582	62.3	14.2	30	18 - 113
Bis(2-chloroisopropyl)ether	934	768	82.2	24.0	30	10 - 130
Bis(2-ethylhexyl)phthalate	934	589	63.0	19.5	30	10 - 138
Caprolactam	934	675	72.2	13.5	30	10 - 100
Carbazole	934	773	68.2	11.7	30	24 - 139
Chrysene	934	1400	67.9	2.37	30	18 - 133
Dibenzo(a,h)anthracene	934	1360	115	18.4	30	10 - 146
Dibenzofuran	934	773	82.7	19.0	30	26 - 134
Diethyl phthalate	934	723	77.4	21.7	30	30 - 119
Dimethyl phthalate	934	691	73.9	16.9	30	34 - 120
Di-n-butyl phthalate	934	632	67.6	19.9	30	20 - 128
Di-n-octyl phthalate	934	703	75.3	20.4	30	10 - 133
Fluoranthene	934	2130	55.7	0.351	30	10 - 155
Fluorene	934	824	82.2	18.6	30	12 - 150
Hexachlorobenzene	934	677	72.5	22.3	30	16 - 142
Hexachlorobutadiene	934	792	84.8	9.90	30	11 - 150
Hexachlorocyclopentadiene	934	ND	*		30	10 - 115
Hexachloroethane	934	455	48.7	22.3	30	14 - 106

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00363	Laboratory ID:	BB00363-MSD1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	934	1380	82.1	15.9	30	10 - 155
Isophorone	934	712	76.2	16.1	30	14 - 127
Naphthalene	934	720	77.0	19.5	30	15 - 132
Nitrobenzene	934	679	72.7	13.0	30	18 - 125
N-Nitrosodimethylamine	934	498	53.3	10.3	30	10 - 123
N-nitroso-di-n-propylamine	934	706	75.6	21.6	30	23 - 115
N-Nitrosodiphenylamine	934	829	88.7	24.7	30	16 - 166
Pentachlorophenol	934	689	73.8	13.3	30	10 - 160
Phenanthrene	934	1420	62.1	6.02	30	10 - 151
Phenol	934	656	70.2	18.0	30	11 - 124
Pyrene	934	1640	56.0	4.09	30	13 - 148

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 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00363	Laboratory ID:	BB00363-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
1,1-Biphenyl	831	548	66.0	22 - 103
1,2,4,5-Tetrachlorobenzene	839	650	77.5	10 - 144
1,2,4-Trichlorobenzene	831	587	70.7	23 - 130
1,2-Dichlorobenzene	831	504	60.7	26 - 113
1,2-Diphenylhydrazine (as Azobenzene)	831	498	60.0	10 - 140
1,3-Dichlorobenzene	831	478	57.5	32 - 113
1,4-Dichlorobenzene	831	508	61.2	28 - 111
2,3,4,6-Tetrachlorophenol	831	691	83.2	30 - 130
2,4,5-Trichlorophenol	831	557	67.0	14 - 138
2,4,6-Trichlorophenol	831	651	78.4	27 - 122
2,4-Dichlorophenol	831	601	72.3	23 - 133
2,4-Dimethylphenol	831	480	57.8	15 - 131
2,4-Dinitrophenol	831	635	76.4	10 - 149
2,4-Dinitrotoluene	831	656	79.0	30 - 123
2,6-Dinitrotoluene	831	622	74.9	30 - 125
2-Chloronaphthalene	831	540	65.0	22 - 115
2-Chlorophenol	831	480	57.8	25 - 121
2-Methylnaphthalene	831	618	74.4	16 - 127
2-Methylphenol	831	425	51.2	10 - 146
2-Nitroaniline	831	564	67.9	24 - 126
2-Nitrophenol	831	543	65.3	17 - 129
3- & 4-Methylphenols	831	376	45.3	20 - 109
3,3-Dichlorobenzidine	831	540	65.0	10 - 147
3-Nitroaniline	831	481	57.9	23 - 123
4,6-Dinitro-2-methylphenol	831	701	84.4	10 - 149
4-Bromophenyl phenyl ether	831	610	73.4	30 - 138
4-Chloro-3-methylphenol	831	609	73.3	16 - 138
4-Chloroaniline	831	382	46.0	10 - 117
4-Chlorophenyl phenyl ether	831	630	75.9	18 - 132
4-Nitroaniline	831	565	68.1	14 - 125

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00363
Laboratory ID: BB00363-BS1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
4-Nitrophenol	831	575	69.2	10 - 136
Acenaphthene	831	591	71.1	17 - 124
Acenaphthylene	831	546	65.7	16 - 124
Acetophenone	831	490	59.0	28 - 105
Aniline	831	326	39.2	10 - 111
Anthracene	831	588	70.8	24 - 124
Atrazine	831	548	66.0	22 - 120
Benzaldehyde	831	550	66.2	21 - 100
Benzo(a)anthracene	831	572	68.9	25 - 134
Benzo(a)pyrene	831	636	76.5	29 - 144
Benzo(b)fluoranthene	831	681	82.0	20 - 151
Benzo(g,h,i)perylene	831	648	78.0	10 - 153
Benzo(k)fluoranthene	831	602	72.4	10 - 148
Benzoic acid	831	204	24.6	10 - 116
Benzyl alcohol	831	536	64.5	17 - 128
Benzyl butyl phthalate	831	465	56.0	10 - 132
Bis(2-chloroethoxy)methane	831	494	59.5	10 - 129
Bis(2-chloroethyl)ether	831	443	53.4	14 - 125
Bis(2-chloroisopropyl)ether	831	588	70.8	14 - 122
Bis(2-ethylhexyl)phthalate	831	485	58.4	10 - 141
Caprolactam	831	526	63.3	10 - 123
Carbazole	831	555	66.8	31 - 120
Chrysene	831	579	69.7	24 - 116
Dibenzo(a,h)anthracene	831	822	99.0	17 - 147
Dibenzofuran	831	611	73.5	23 - 123
Diethyl phthalate	831	592	71.2	23 - 122
Dimethyl phthalate	831	583	70.2	28 - 127
Di-n-butyl phthalate	831	521	62.7	19 - 123
Di-n-octyl phthalate	831	559	67.4	10 - 132
Fluoranthene	831	657	79.1	36 - 125

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00363	Laboratory ID:	BB00363-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
Fluorene	831	609	73.3	16 - 130
Hexachlorobenzene	831	530	63.8	10 - 129
Hexachlorobutadiene	831	673	81.1	22 - 153
Hexachlorocyclopentadiene	831	282	34.0	10 - 134
Hexachloroethane	831	487	58.7	20 - 112
Indeno(1,2,3-cd)pyrene	831	728	87.7	10 - 155
Isophorone	831	567	68.3	14 - 131
Naphthalene	831	557	67.0	20 - 121
Nitrobenzene	831	529	63.6	20 - 121
N-Nitrosodimethylamine	831	416	50.0	10 - 124
N-nitroso-di-n-propylamine	831	512	61.6	21 - 119
N-Nitrosodiphenylamine	831	644	77.6	10 - 163
Pentachlorophenol	831	592	71.2	10 - 143
Phenanthrene	831	601	72.3	24 - 123
Phenol	831	478	57.6	15 - 123
Pyrene	831	517	62.3	24 - 132

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

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00363 Batch Matrix: Soil Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (0-2)	20B0093-01	SV628951.D	02/10/20 07:21	
SB-1 (11-13)	20B0093-02	SV628952.D	02/10/20 07:21	
SB-1 (11-13)	20B0093-02RE1	SV628965.D	02/10/20 07:21	Added 2/11/2020 by OW
SB-1 (11-13)	20B0093-02RE2	SV628964.D	02/10/20 07:21	Added 2/11/2020 by OW
SB-1 (11-13)	20B0093-02RE3	SV628967.D	02/10/20 07:21	Added 2/11/2020 by OW
SB-3 (0-2)	20B0093-03	SV628953.D	02/10/20 07:21	OILY BLACK EXTRACT
SB-3 (0-2)	20B0093-03RE1	SV628966.D	02/10/20 07:21	OILY BLACK EXTRACT
SB-3 (13-15)	20B0093-05	SV628954.D	02/10/20 07:21	
SB-4 (0-2)	20B0093-06	SV628955.D	02/10/20 07:21	
SB-4 (13-15)	20B0093-07	SV628958.D	02/10/20 07:21	
Blank	BB00363-BLK1	SV628940.D	02/10/20 07:21	
LCS	BB00363-BS1	SV628941.D	02/10/20 07:21	
SB-4 (0-2)	BB00363-MS1	SV628956.D	02/10/20 07:21	
SB-4 (0-2)	BB00363-MSD1	SV628957.D	02/10/20 07:21	

FORM I

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00363-BLK1	File ID:	SV628940.D
Prepared:	02/10/20 07:21	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Analyzed:	02/10/20 16:10	Instrument:	BNA#6		
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
92-52-4	1,1-Biphenyl	41.6	U
95-94-3	1,2,4,5-Tetrachlorobenzene	83.0	U
120-82-1	1,2,4-Trichlorobenzene	41.6	U
95-50-1	1,2-Dichlorobenzene	41.6	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	41.6	U
541-73-1	1,3-Dichlorobenzene	41.6	U
106-46-7	1,4-Dichlorobenzene	41.6	U
58-90-2	2,3,4,6-Tetrachlorophenol	83.0	U
95-95-4	2,4,5-Trichlorophenol	41.6	U
88-06-2	2,4,6-Trichlorophenol	41.6	U
120-83-2	2,4-Dichlorophenol	41.6	U
105-67-9	2,4-Dimethylphenol	41.6	U
51-28-5	2,4-Dinitrophenol	83.0	U
121-14-2	2,4-Dinitrotoluene	41.6	U
606-20-2	2,6-Dinitrotoluene	41.6	U
91-58-7	2-Chloronaphthalene	41.6	U
95-57-8	2-Chlorophenol	41.6	U
91-57-6	2-Methylnaphthalene	41.6	U
95-48-7	2-Methylphenol	41.6	U
88-74-4	2-Nitroaniline	83.0	U
88-75-5	2-Nitrophenol	41.6	U
65794-96-9	3- & 4-Methylphenols	41.6	U
91-94-1	3,3-Dichlorobenzidine	41.6	U
99-09-2	3-Nitroaniline	83.0	U
534-52-1	4,6-Dinitro-2-methylphenol	83.0	U
101-55-3	4-Bromophenyl phenyl ether	41.6	U
59-50-7	4-Chloro-3-methylphenol	41.6	U
106-47-8	4-Chloroaniline	41.6	U
7005-72-3	4-Chlorophenyl phenyl ether	41.6	U
100-01-6	4-Nitroaniline	83.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00363-BLK1	File ID:	SV628940.D
Prepared:	02/10/20 07:21	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Analyzed:	02/10/20 16:10	Instrument:	BNA#6		
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
100-02-7	4-Nitrophenol	83.0	U
83-32-9	Acenaphthene	41.6	U
208-96-8	Acenaphthylene	41.6	U
98-86-2	Acetophenone	41.6	U
62-53-3	Aniline	166	U
120-12-7	Anthracene	41.6	U
1912-24-9	Atrazine	41.6	U
100-52-7	Benzaldehyde	41.6	U
92-87-5	Benzidine	166	U
56-55-3	Benzo(a)anthracene	41.6	U
50-32-8	Benzo(a)pyrene	41.6	U
205-99-2	Benzo(b)fluoranthene	41.6	U
191-24-2	Benzo(g,h,i)perylene	41.6	U
207-08-9	Benzo(k)fluoranthene	41.6	U
65-85-0	Benzoic acid	41.6	U
100-51-6	Benzyl alcohol	41.6	U
85-68-7	Benzyl butyl phthalate	41.6	U
111-91-1	Bis(2-chloroethoxy)methane	41.6	U
111-44-4	Bis(2-chloroethyl)ether	41.6	U
108-60-1	Bis(2-chloroisopropyl)ether	41.6	U
117-81-7	Bis(2-ethylhexyl)phthalate	41.6	U
105-60-2	Caprolactam	83.0	U
86-74-8	Carbazole	41.6	U
218-01-9	Chrysene	41.6	U
53-70-3	Dibenzo(a,h)anthracene	41.6	U
132-64-9	Dibenzofuran	41.6	U
84-66-2	Diethyl phthalate	41.6	U
131-11-3	Dimethyl phthalate	41.6	U
84-74-2	Di-n-butyl phthalate	41.6	U
117-84-0	Di-n-octyl phthalate	41.6	U

FORM I

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00363-BLK1	File ID:	SV628940.D
Prepared:	02/10/20 07:21	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Analyzed:	02/10/20 16:10	Instrument:	BNA#6		
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
206-44-0	Fluoranthene	41.6	U
86-73-7	Fluorene	41.6	U
118-74-1	Hexachlorobenzene	41.6	U
87-68-3	Hexachlorobutadiene	41.6	U
77-47-4	Hexachlorocyclopentadiene	41.6	U
67-72-1	Hexachloroethane	41.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	41.6	U
78-59-1	Isophorone	41.6	U
91-20-3	Naphthalene	41.6	U
98-95-3	Nitrobenzene	41.6	U
62-75-9	N-Nitrosodimethylamine	41.6	U
621-64-7	N-nitroso-di-n-propylamine	41.6	U
86-30-6	N-Nitrosodiphenylamine	41.6	U
87-86-5	Pentachlorophenol	41.6	U
85-01-8	Phenanthrene	41.6	U
108-95-2	Phenol	41.6	U
129-00-0	Pyrene	41.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
SURR: 2,4,6-Tribromophenol	1660	1610	97.2	19 - 110	
SURR: 2-Fluorobiphenyl	831	620	74.6	21 - 113	
SURR: 2-Fluorophenol	1660	946	57.0	20 - 108	
SURR: Nitrobenzene-d5	831	585	70.4	22 - 108	
SURR: Phenol-d5	1660	976	58.8	23 - 114	
SURR: Terphenyl-d14	831	689	82.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	869232	4.8	943755	4.8	
ISTD: Acenaphthene-d10	2096369	7.23	2468626	7.23	
ISTD: Chrysene-d12	4615451	14.54	5930644	14.55	
ISTD: Naphthalene-d8	3402516	5.74	4094325	5.74	

FORM I

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00363-BLK1	File ID:	SV628940.D
Prepared:	02/10/20 07:21	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Analyzed:	02/10/20 16:10	Instrument:	BNA#6		
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Perylene-d12	5455246	17.65	6994074	17.66	
ISTD: Phenanthrene-d10	4144958	9.16	5181551	9.17	

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Lab File ID:	SV628938.D	Injection Date:	02/10/20
Instrument ID:	BNA#6	Injection Time:	15:07
Sequence:	Y0B1101	Lab Sample ID:	Y0B1101-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	34.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	39.1	PASS
70	Less than 2% of 69	0.403	PASS
127	10 - 80% of 198	41.9	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.46	PASS
275	10 - 60% of 198	29	PASS
365	1 - 100% of 198	4.02	PASS
441	0.01 - 24% of 442	14.5	PASS
442	50 - 100% of 198	90.8	PASS
443	15 - 24% of 442	18.6	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Lab File ID:	SV628960.D	Injection Date:	02/11/20
Instrument ID:	BNA#6	Injection Time:	07:58
Sequence:	Y0B1127	Lab Sample ID:	Y0B1127-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	34	PASS
68	Less than 2% of 69	1.6	PASS
69	Less than 100% of 198	47.3	PASS
70	Less than 2% of 69	1.21	PASS
127	10 - 80% of 198	43.5	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.5	PASS
275	10 - 60% of 198	28.4	PASS
365	1 - 100% of 198	3.71	PASS
441	0.01 - 24% of 442	14.2	PASS
442	50 - 100% of 198	85.5	PASS
443	15 - 24% of 442	20.1	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Lab File ID:	SV627589.D	Injection Date:	12/02/19
Instrument ID:	BNA#6	Injection Time:	08:54
Sequence:	Y9L0308	Lab Sample ID:	Y9L0308-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	31.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	40.2	PASS
70	Less than 2% of 69	0.394	PASS
127	10 - 80% of 198	49.6	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.84	PASS
275	10 - 60% of 198	26.1	PASS
365	1 - 100% of 198	3.32	PASS
441	0.01 - 24% of 442	14.5	PASS
442	50 - 100% of 198	77.8	PASS
443	15 - 24% of 442	19.5	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0B1101	Instrument:	BNA#6
		Calibration:	YL90003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0B1101-TUN1	SV628938.D	02/10/20 15:07
Calibration Check	Y0B1101-CCV1	SV628939.D	02/10/20 15:38
Blank	BB00363-BLK1	SV628940.D	02/10/20 16:10
LCS	BB00363-BS1	SV628941.D	02/10/20 16:42
SB-1 (0-2)	20B0093-01	SV628951.D	02/10/20 21:59
SB-1 (11-13)	20B0093-02	SV628952.D	02/10/20 22:32
SB-3 (0-2)	20B0093-03	SV628953.D	02/10/20 23:03
SB-3 (13-15)	20B0093-05	SV628954.D	02/10/20 23:35
SB-4 (0-2)	20B0093-06	SV628955.D	02/11/20 00:07
SB-4 (0-2)	BB00363-MS1	SV628956.D	02/11/20 00:39
SB-4 (0-2)	BB00363-MSD1	SV628957.D	02/11/20 01:11
SB-4 (13-15)	20B0093-07	SV628958.D	02/11/20 01:43

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0B1127	Instrument:	BNA#6
		Calibration:	YL90003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0B1127-TUN1	SV628960.D	02/11/20 07:58
Calibration Check	Y0B1127-CCV1	SV628961.D	02/11/20 08:30
SB-1 (11-13)	20B0093-02RE2	SV628964.D	02/11/20 10:06
SB-1 (11-13)	20B0093-02RE1	SV628965.D	02/11/20 10:38
SB-3 (0-2)	20B0093-03RE1	SV628966.D	02/11/20 11:09
SB-1 (11-13)	20B0093-02RE3	SV628967.D	02/11/20 11:41

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y9L0308
Instrument: BNA#6
Calibration: YL90003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9L0308-TUN1	SV627589.D	12/02/19 08:54
Cal Standard	Y9L0308-CAL1	SV627591.D	12/02/19 10:13
Cal Standard	Y9L0308-CAL2	SV627592.D	12/02/19 10:45
Cal Standard	Y9L0308-CAL3	SV627593.D	12/02/19 11:17
Cal Standard	Y9L0308-CAL4	SV627594.D	12/02/19 11:50
Cal Standard	Y9L0308-CAL5	SV627595.D	12/02/19 12:23
Cal Standard	Y9L0308-CAL6	SV627596.D	12/02/19 12:56
Cal Standard	Y9L0308-CAL7	SV627597.D	12/02/19 13:28
Cal Standard	Y9L0308-CAL8	SV627598.D	12/02/19 14:00
Secondary Cal Check	Y9L0308-SCV1	SV627599.D	12/02/19 14:47

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1101 Instrument: BNA#6

Calibration: YL90003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1101-CCV1)			Lab File ID: SV628939.D			Analyzed: 02/10/20 15:38			
ISTD: 1,4-Dichlorobenzene-d4	943755	4.8				50 - 200		+/-0.50	
ISTD: Naphthalene-d8	4094325	5.74				50 - 200		+/-0.50	
ISTD: Acenaphthene-d10	2468626	7.23				50 - 200		+/-0.50	
ISTD: Phenanthrene-d10	5181551	9.17				50 - 200		+/-0.50	
ISTD: Chrysene-d12	5930644	14.55				50 - 200		+/-0.50	
ISTD: Perylene-d12	6994074	17.66				50 - 200		+/-0.50	
Blank (BB00363-BLK1)			Lab File ID: SV628940.D			Analyzed: 02/10/20 16:10			
ISTD: 1,4-Dichlorobenzene-d4	869232	4.8	943755	4.8	92	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	3402516	5.74	4094325	5.74	83	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	2096369	7.23	2468626	7.23	85	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	4144958	9.16	5181551	9.17	80	50 - 200	-0.0100	+/-0.50	
ISTD: Chrysene-d12	4615451	14.54	5930644	14.55	78	50 - 200	-0.0100	+/-0.50	
ISTD: Perylene-d12	5455246	17.65	6994074	17.66	78	50 - 200	-0.0100	+/-0.50	
LCS (BB00363-BS1)			Lab File ID: SV628941.D			Analyzed: 02/10/20 16:42			
ISTD: 1,4-Dichlorobenzene-d4	919227	4.8	943755	4.8	97	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	3526371	5.74	4094325	5.74	86	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	2129426	7.23	2468626	7.23	86	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	4495738	9.16	5181551	9.17	87	50 - 200	-0.0100	+/-0.50	
ISTD: Chrysene-d12	4832995	14.54	5930644	14.55	81	50 - 200	-0.0100	+/-0.50	
ISTD: Perylene-d12	5648594	17.65	6994074	17.66	81	50 - 200	-0.0100	+/-0.50	
SB-1 (0-2) (20B0093-01)			Lab File ID: SV628951.D			Analyzed: 02/10/20 21:59			
ISTD: 1,4-Dichlorobenzene-d4	976812	4.8	943755	4.8	104	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	3997013	5.74	4094325	5.74	98	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	2593770	7.23	2468626	7.23	105	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	5385231	9.16	5181551	9.17	104	50 - 200	-0.0100	+/-0.50	
ISTD: Chrysene-d12	6190181	14.55	5930644	14.55	104	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	7179589	17.66	6994074	17.66	103	50 - 200	0.0000	+/-0.50	
SB-1 (11-13) (20B0093-02)			Lab File ID: SV628952.D			Analyzed: 02/10/20 22:32			
ISTD: 1,4-Dichlorobenzene-d4	1101697	4.8	943755	4.8	117	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	4394413	5.74	4094325	5.74	107	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	2825644	7.23	2468626	7.23	114	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6082556	9.18	5181551	9.17	117	50 - 200	0.0100	+/-0.50	
ISTD: Chrysene-d12	7728196	14.63	5930644	14.55	130	50 - 200	0.0800	+/-0.50	
ISTD: Perylene-d12	8223852	17.76	6994074	17.66	118	50 - 200	0.1000	+/-0.50	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093
Client: Roux Associates Project: 3475.00014000 Lafayette
Sequence: Y0B1101 Instrument: BNA#6
Calibration: YL90003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SB-3 (0-2) (20B0093-03)			Lab File ID: SV628953.D			Analyzed: 02/10/20 23:03			
ISTD: 1,4-Dichlorobenzene-d4	1047422	4.8	943755	4.8	111	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	4359504	5.74	4094325	5.74	106	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	2766045	7.23	2468626	7.23	112	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	5752804	9.17	5181551	9.17	111	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	6821842	14.56	5930644	14.55	115	50 - 200	0.0100	+/-0.50	
ISTD: Perylene-d12	7674425	17.68	6994074	17.66	110	50 - 200	0.0200	+/-0.50	
SB-3 (13-15) (20B0093-05)			Lab File ID: SV628954.D			Analyzed: 02/10/20 23:35			
ISTD: 1,4-Dichlorobenzene-d4	1048077	4.8	943755	4.8	111	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	4194721	5.74	4094325	5.74	102	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	2669001	7.23	2468626	7.23	108	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	5722445	9.17	5181551	9.17	110	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	6562021	14.56	5930644	14.55	111	50 - 200	0.0100	+/-0.50	
ISTD: Perylene-d12	7367699	17.68	6994074	17.66	105	50 - 200	0.0200	+/-0.50	
SB-4 (0-2) (20B0093-06)			Lab File ID: SV628955.D			Analyzed: 02/11/20 00:07			
ISTD: 1,4-Dichlorobenzene-d4	1094754	4.8	943755	4.8	116	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	4417094	5.74	4094325	5.74	108	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	2767213	7.24	2468626	7.23	112	50 - 200	0.0100	+/-0.50	
ISTD: Phenanthrene-d10	5934816	9.17	5181551	9.17	115	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	6861479	14.56	5930644	14.55	116	50 - 200	0.0100	+/-0.50	
ISTD: Perylene-d12	7566627	17.68	6994074	17.66	108	50 - 200	0.0200	+/-0.50	
Matrix Spike (BB00363-MS1)			Lab File ID: SV628956.D			Analyzed: 02/11/20 00:39			
ISTD: 1,4-Dichlorobenzene-d4	1096816	4.8	943755	4.8	116	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	4274704	5.75	4094325	5.74	104	50 - 200	0.0100	+/-0.50	
ISTD: Acenaphthene-d10	2736218	7.24	2468626	7.23	111	50 - 200	0.0100	+/-0.50	
ISTD: Phenanthrene-d10	5888872	9.17	5181551	9.17	114	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	6463250	14.57	5930644	14.55	109	50 - 200	0.0200	+/-0.50	
ISTD: Perylene-d12	7356190	17.68	6994074	17.66	105	50 - 200	0.0200	+/-0.50	
Matrix Spike Dup (BB00363-MSD1)			Lab File ID: SV628957.D			Analyzed: 02/11/20 01:11			
ISTD: 1,4-Dichlorobenzene-d4	1078090	4.8	943755	4.8	114	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	4345982	5.75	4094325	5.74	106	50 - 200	0.0100	+/-0.50	
ISTD: Acenaphthene-d10	2781228	7.24	2468626	7.23	113	50 - 200	0.0100	+/-0.50	
ISTD: Phenanthrene-d10	5933374	9.17	5181551	9.17	115	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	6547792	14.56	5930644	14.55	110	50 - 200	0.0100	+/-0.50	
ISTD: Perylene-d12	7225798	17.68	6994074	17.66	103	50 - 200	0.0200	+/-0.50	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8270D

Laboratory: York Analytical Laboratories, Inc.
Client: Roux Associates
Sequence: Y0B1101

SDG: 20B0093
Project: 3475.00014000 Lafayette
Instrument: BNA#6
Calibration: YL90003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SB-4 (13-15) (20B0093-07)			Lab File ID: SV628958.D			Analyzed: 02/11/20 01:43			
ISTD: 1,4-Dichlorobenzene-d4	1083043	4.8	943755	4.8	115	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	4511614	5.75	4094325	5.74	110	50 - 200	0.0100	+/-0.50	
ISTD: Acenaphthene-d10	2868324	7.24	2468626	7.23	116	50 - 200	0.0100	+/-0.50	
ISTD: Phenanthrene-d10	5904338	9.17	5181551	9.17	114	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	6676638	14.57	5930644	14.55	113	50 - 200	0.0200	+/-0.50	
ISTD: Perylene-d12	7222412	17.68	6994074	17.66	103	50 - 200	0.0200	+/-0.50	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093
Client: Roux Associates Project: 3475.00014000 Lafayette
Sequence: Y0B1127 Instrument: BNA#6
Calibration: YL90003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1127-CCV1)			Lab File ID: SV628961.D			Analyzed: 02/11/20 08:30			
ISTD: 1,4-Dichlorobenzene-d4	819990	4.8				50 - 200		+/-0.50	
ISTD: Naphthalene-d8	3574569	5.74				50 - 200		+/-0.50	
ISTD: Acenaphthene-d10	2127881	7.24				50 - 200		+/-0.50	
ISTD: Phenanthrene-d10	4393448	9.17				50 - 200		+/-0.50	
ISTD: Chrysene-d12	4923971	14.56				50 - 200		+/-0.50	
ISTD: Perylene-d12	5758184	17.67				50 - 200		+/-0.50	
SB-1 (11-13) (20B0093-02RE2)			Lab File ID: SV628964.D			Analyzed: 02/11/20 10:06			
ISTD: 1,4-Dichlorobenzene-d4	887310	4.8	819990	4.8	108	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	3667431	5.75	3574569	5.74	103	50 - 200	0.0100	+/-0.50	
ISTD: Acenaphthene-d10	2324768	7.24	2127881	7.24	109	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	4700474	9.17	4393448	9.17	107	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5572925	14.56	4923971	14.56	113	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	6960131	17.67	5758184	17.67	121	50 - 200	0.0000	+/-0.50	
SB-1 (11-13) (20B0093-02RE1)			Lab File ID: SV628965.D			Analyzed: 02/11/20 10:38			
ISTD: 1,4-Dichlorobenzene-d4	896056	4.8	819990	4.8	109	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	3701636	5.75	3574569	5.74	104	50 - 200	0.0100	+/-0.50	
ISTD: Acenaphthene-d10	2466246	7.24	2127881	7.24	116	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	4947350	9.17	4393448	9.17	113	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	6229825	14.57	4923971	14.56	127	50 - 200	0.0100	+/-0.50	
ISTD: Perylene-d12	7593760	17.69	5758184	17.67	132	50 - 200	0.0200	+/-0.50	
SB-3 (0-2) (20B0093-03RE1)			Lab File ID: SV628966.D			Analyzed: 02/11/20 11:09			
ISTD: 1,4-Dichlorobenzene-d4	935644	4.8	819990	4.8	114	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	3976133	5.75	3574569	5.74	111	50 - 200	0.0100	+/-0.50	
ISTD: Acenaphthene-d10	2455159	7.24	2127881	7.24	115	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	5022108	9.17	4393448	9.17	114	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5926431	14.56	4923971	14.56	120	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	7094251	17.68	5758184	17.67	123	50 - 200	0.0100	+/-0.50	
SB-1 (11-13) (20B0093-02RE3)			Lab File ID: SV628967.D			Analyzed: 02/11/20 11:41			
ISTD: 1,4-Dichlorobenzene-d4	909903	4.8	819990	4.8	111	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	3599265	5.75	3574569	5.74	101	50 - 200	0.0100	+/-0.50	
ISTD: Acenaphthene-d10	2238280	7.24	2127881	7.24	105	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	4629471	9.17	4393448	9.17	105	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5335683	14.56	4923971	14.56	108	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	6197779	17.68	5758184	17.67	108	50 - 200	0.0100	+/-0.50	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y9L0308 Instrument: BNA#6

Calibration: YL90003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y9L0308-CAL1)			Lab File ID: SV627591.D			Analyzed: 12/02/19 10:13			
ISTD: 1,4-Dichlorobenzene-d4	1393682	4.91	1328300	4.91	105	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	5226963	5.85	5575666	5.85	94	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3077979	7.37	3079971	7.37	100	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	5654441	9.33	6034264	9.33	94	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5207293	14.72	5420955	14.72	96	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	5860555	17.82	6173702	17.82	95	50 - 200	0.0000	+/-0.50	
Cal Standard (Y9L0308-CAL2)			Lab File ID: SV627592.D			Analyzed: 12/02/19 10:45			
ISTD: 1,4-Dichlorobenzene-d4	1462821	4.91	1328300	4.91	110	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	5712323	5.85	5575666	5.85	102	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3344314	7.37	3079971	7.37	109	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6157800	9.33	6034264	9.33	102	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5577911	14.72	5420955	14.72	103	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	6521616	17.82	6173702	17.82	106	50 - 200	0.0000	+/-0.50	
Cal Standard (Y9L0308-CAL3)			Lab File ID: SV627593.D			Analyzed: 12/02/19 11:17			
ISTD: 1,4-Dichlorobenzene-d4	1460646	4.91	1328300	4.91	110	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	5901263	5.85	5575666	5.85	106	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3351379	7.37	3079971	7.37	109	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6285849	9.33	6034264	9.33	104	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5622346	14.72	5420955	14.72	104	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	6566125	17.82	6173702	17.82	106	50 - 200	0.0000	+/-0.50	
Cal Standard (Y9L0308-CAL4)			Lab File ID: SV627594.D			Analyzed: 12/02/19 11:50			
ISTD: 1,4-Dichlorobenzene-d4	1412594	4.91	1328300	4.91	106	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	5719434	5.85	5575666	5.85	103	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3337734	7.37	3079971	7.37	108	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6391933	9.33	6034264	9.33	106	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5712366	14.72	5420955	14.72	105	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	6642928	17.82	6173702	17.82	108	50 - 200	0.0000	+/-0.50	
Cal Standard (Y9L0308-CAL5)			Lab File ID: SV627595.D			Analyzed: 12/02/19 12:23			
ISTD: 1,4-Dichlorobenzene-d4	1414479	4.91	1328300	4.91	106	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	5822326	5.85	5575666	5.85	104	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3354269	7.37	3079971	7.37	109	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6336651	9.33	6034264	9.33	105	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5741730	14.72	5420955	14.72	106	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	6618312	17.82	6173702	17.82	107	50 - 200	0.0000	+/-0.50	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093
Client: Roux Associates Project: 3475.00014000 Lafayette
Sequence: Y9L0308 Instrument: BNA#6
Calibration: YL90003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y9L0308-CAL6)			Lab File ID: SV627596.D			Analyzed: 12/02/19 12:56			
ISTD: 1,4-Dichlorobenzene-d4	1356616	4.91	1328300	4.91	102	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	5634254	5.85	5575666	5.85	101	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3234567	7.37	3079971	7.37	105	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6230670	9.33	6034264	9.33	103	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5586699	14.72	5420955	14.72	103	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	6500970	17.82	6173702	17.82	105	50 - 200	0.0000	+/-0.50	
Cal Standard (Y9L0308-CAL7)			Lab File ID: SV627597.D			Analyzed: 12/02/19 13:28			
ISTD: 1,4-Dichlorobenzene-d4	1328300	4.91	1328300	4.91	100	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	5575666	5.85	5575666	5.85	100	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3079971	7.37	3079971	7.37	100	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6034264	9.33	6034264	9.33	100	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5420955	14.72	5420955	14.72	100	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	6173702	17.82	6173702	17.82	100	50 - 200	0.0000	+/-0.50	
Cal Standard (Y9L0308-CAL8)			Lab File ID: SV627598.D			Analyzed: 12/02/19 14:00			
ISTD: 1,4-Dichlorobenzene-d4	1432382	4.91	1328300	4.91	108	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	6063285	5.85	5575666	5.85	109	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3293163	7.37	3079971	7.37	107	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6360912	9.33	6034264	9.33	105	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5619451	14.73	5420955	14.72	104	50 - 200	0.0100	+/-0.50	
ISTD: Perylene-d12	6577538	17.82	6173702	17.82	107	50 - 200	0.0000	+/-0.50	
Secondary Cal Check (Y9L0308-SCV1)			Lab File ID: SV627599.D			Analyzed: 12/02/19 14:47			
ISTD: 1,4-Dichlorobenzene-d4	1370086	4.91	1328300	4.91	103	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	5492525	5.85	5575666	5.85	99	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3201818	7.37	3079971	7.37	104	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	6454500	9.33	6034264	9.33	107	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	5765272	14.73	5420955	14.72	106	50 - 200	0.0100	+/-0.50	
ISTD: Perylene-d12	6524773	17.82	6173702	17.82	106	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

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
SB-1 (0-2)	02/04/20 09:40	02/04/20 19:35	02/10/20 07:21	5.90	14.00	02/10/20 21:59	0.61	40.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/10/20 07:21	5.88	14.00	02/10/20 22:32	0.63	40.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/10/20 07:21	5.88	14.00	02/11/20 10:38	1.14	40.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/10/20 07:21	5.88	14.00	02/11/20 10:06	1.11	40.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/10/20 07:21	5.88	14.00	02/11/20 11:41	1.18	40.00	
SB-3 (0-2)	02/04/20 12:45	02/04/20 19:35	02/10/20 07:21	5.78	14.00	02/10/20 23:03	0.65	40.00	
SB-3 (0-2)	02/04/20 12:45	02/04/20 19:35	02/10/20 07:21	5.78	14.00	02/11/20 11:09	1.16	40.00	
SB-3 (13-15)	02/04/20 13:25	02/04/20 19:35	02/10/20 07:21	5.75	14.00	02/10/20 23:35	0.68	40.00	
SB-4 (0-2)	02/04/20 14:50	02/04/20 19:35	02/10/20 07:21	5.69	14.00	02/11/20 00:07	0.70	40.00	
SB-4 (13-15)	02/04/20 15:00	02/04/20 19:35	02/10/20 07:21	5.68	14.00	02/11/20 01:43	0.77	40.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** BNA#6

Analyte	LOD	LOQ	Units
1,1-Biphenyl	20.9	41.7	ug/kg
	2.50	5.00	ug/L
1,2,4,5-Tetrachlorobenzene	41.7	83.3	ug/kg
	2.50	5.00	ug/L
1,2,4-Trichlorobenzene	20.9	41.7	ug/kg
	2.50	5.00	ug/L
1,2-Dichlorobenzene	20.9	41.7	ug/kg
	2.50	5.00	ug/L
1,2-Diphenylhydrazine (as Azobenzene)	20.9	41.7	ug/kg
	2.50	5.00	ug/L
1,3-Dichlorobenzene	20.9	41.7	ug/kg
	2.50	5.00	ug/L
1,4-Dichlorobenzene	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2,3,4,6-Tetrachlorophenol	41.7	83.3	ug/kg
	2.50	5.00	ug/L
2,4,5-Trichlorophenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2,4,6-Trichlorophenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2,4-Dichlorophenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2,4-Dimethylphenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2,4-Dinitrophenol	41.7	83.3	ug/kg
	2.50	5.00	ug/L
2,4-Dinitrotoluene	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2,6-Dinitrotoluene	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2-Chloronaphthalene	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2-Chlorophenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2-Methylnaphthalene	20.9	41.7	ug/kg
	2.50	5.00	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** BNA#6

Analyte	LOD	LOQ	Units
2-Methylphenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
2-Nitroaniline	41.7	83.3	ug/kg
	2.50	5.00	ug/L
2-Nitrophenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
3- & 4-Methylphenols	20.9	41.7	ug/kg
	2.50	5.00	ug/L
3,3-Dichlorobenzidine	20.9	41.7	ug/kg
	2.50	5.00	ug/L
3-Nitroaniline	41.7	83.3	ug/kg
	2.50	5.00	ug/L
4,6-Dinitro-2-methylphenol	41.7	83.3	ug/kg
	2.50	5.00	ug/L
4-Bromophenyl phenyl ether	20.9	41.7	ug/kg
	2.50	5.00	ug/L
4-Chloro-3-methylphenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
4-Chloroaniline	20.9	41.7	ug/kg
	2.50	5.00	ug/L
4-Chlorophenyl phenyl ether	20.9	41.7	ug/kg
	2.50	5.00	ug/L
4-Nitroaniline	41.7	83.3	ug/kg
	2.50	5.00	ug/L
4-Nitrophenol	41.7	83.3	ug/kg
	2.50	5.00	ug/L
Acenaphthene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Acenaphthylene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Acetophenone	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Aniline	83.5	167	ug/kg
	2.50	5.00	ug/L
Anthracene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Atrazine	20.9	41.7	ug/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Water **Instrument:** BNA#6

Analyte	LOD	LOQ	Units
Atrazine	0.500	0.500	ug/L
Benzaldehyde	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Benzidine	83.5	167	ug/kg
	10.0	20.0	ug/L
Benzo(a)anthracene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Benzo(a)pyrene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Benzo(b)fluoranthene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Benzo(g,h,i)perylene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Benzo(k)fluoranthene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Benzoic acid	20.9	41.7	ug/kg
	25.0	50.0	ug/L
Benzyl alcohol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Benzyl butyl phthalate	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Bis(2-chloroethoxy)methane	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Bis(2-chloroethyl)ether	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Bis(2-chloroisopropyl)ether	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Bis(2-ethylhexyl)phthalate	20.9	41.7	ug/kg
	0.500	0.500	ug/L
Caprolactam	41.7	83.3	ug/kg
	2.50	5.00	ug/L
Carbazole	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Chrysene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Dibenzo(a,h)anthracene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** BNA#6

Analyte	LOD	LOQ	Units
Dibenzofuran	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Diethyl phthalate	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Dimethyl phthalate	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Di-n-butyl phthalate	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Di-n-octyl phthalate	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Fluoranthene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Fluorene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Hexachlorobenzene	20.9	41.7	ug/kg
	0.0200	0.0200	ug/L
Hexachlorobutadiene	20.9	41.7	ug/kg
	0.500	0.500	ug/L
Hexachlorocyclopentadiene	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Hexachloroethane	20.9	41.7	ug/kg
	0.500	0.500	ug/L
Indeno(1,2,3-cd)pyrene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Isophorone	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Naphthalene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Nitrobenzene	20.9	41.7	ug/kg
	0.250	0.250	ug/L
N-Nitrosodimethylamine	20.9	41.7	ug/kg
	0.500	0.500	ug/L
N-nitroso-di-n-propylamine	20.9	41.7	ug/kg
	2.50	5.00	ug/L
N-Nitrosodiphenylamine	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Pentachlorophenol	20.9	41.7	ug/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Water **Instrument:** BNA#6

Analyte	LOD	LOQ	Units
Pentachlorophenol	0.250	0.250	ug/L
Phenanthrene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L
Phenol	20.9	41.7	ug/kg
	2.50	5.00	ug/L
Pyrene	20.9	41.7	ug/kg
	0.0500	0.0500	ug/L

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8270D

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID: SV628951.D

Sampled: 02/04/20 09:40 Prepared: 02/10/20 07:21 Analyzed: 02/10/20 21:59

Solids: 81.01 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
92-52-4	1,1-Biphenyl	2	103	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	205	U
120-82-1	1,2,4-Trichlorobenzene	2	103	U
95-50-1	1,2-Dichlorobenzene	2	103	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	103	U
541-73-1	1,3-Dichlorobenzene	2	103	U
106-46-7	1,4-Dichlorobenzene	2	103	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	205	U
95-95-4	2,4,5-Trichlorophenol	2	103	U
88-06-2	2,4,6-Trichlorophenol	2	103	U
120-83-2	2,4-Dichlorophenol	2	103	U
105-67-9	2,4-Dimethylphenol	2	103	U
51-28-5	2,4-Dinitrophenol	2	205	U
121-14-2	2,4-Dinitrotoluene	2	103	U
606-20-2	2,6-Dinitrotoluene	2	103	U
91-58-7	2-Chloronaphthalene	2	103	U
95-57-8	2-Chlorophenol	2	103	U
91-57-6	2-Methylnaphthalene	2	103	U
95-48-7	2-Methylphenol	2	103	U
88-74-4	2-Nitroaniline	2	205	U
88-75-5	2-Nitrophenol	2	103	U
65794-96-9	3- & 4-Methylphenols	2	103	U
91-94-1	3,3-Dichlorobenzidine	2	103	U
99-09-2	3-Nitroaniline	2	205	U
534-52-1	4,6-Dinitro-2-methylphenol	2	205	U
101-55-3	4-Bromophenyl phenyl ether	2	103	U
59-50-7	4-Chloro-3-methylphenol	2	103	U
106-47-8	4-Chloroaniline	2	103	U
7005-72-3	4-Chlorophenyl phenyl ether	2	103	U
100-01-6	4-Nitroaniline	2	205	U
100-02-7	4-Nitrophenol	2	205	U
83-32-9	Acenaphthene	2	103	U
208-96-8	Acenaphthylene	2	103	U
98-86-2	Acetophenone	2	103	U
62-53-3	Aniline	2	411	U
120-12-7	Anthracene	2	75.5	JD
1912-24-9	Atrazine	2	103	U
100-52-7	Benzaldehyde	2	103	U
92-87-5	Benzidine	2	411	U
56-55-3	Benzo(a)anthracene	2	370	D

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-1 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-01	File ID:	SV628951.D
Sampled:	02/04/20 09:40	Prepared:	02/10/20 07:21	Analyzed:	02/10/20 21:59
Solids:	81.01	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
50-32-8	Benzo(a)pyrene	2	395	D
205-99-2	Benzo(b)fluoranthene	2	326	D
191-24-2	Benzo(g,h,i)perylene	2	212	D
207-08-9	Benzo(k)fluoranthene	2	322	D
65-85-0	Benzoic acid	2	103	U
100-51-6	Benzyl alcohol	2	103	U
85-68-7	Benzyl butyl phthalate	2	103	U
111-91-1	Bis(2-chloroethoxy)methane	2	103	U
111-44-4	Bis(2-chloroethyl)ether	2	103	U
108-60-1	Bis(2-chloroisopropyl)ether	2	103	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	103	U
105-60-2	Caprolactam	2	205	U
86-74-8	Carbazole	2	103	U
218-01-9	Chrysene	2	350	D
53-70-3	Dibenzo(a,h)anthracene	2	102	JD
132-64-9	Dibenzofuran	2	103	U
84-66-2	Diethyl phthalate	2	103	U
131-11-3	Dimethyl phthalate	2	103	U
84-74-2	Di-n-butyl phthalate	2	103	U
117-84-0	Di-n-octyl phthalate	2	103	U
206-44-0	Fluoranthene	2	688	D
86-73-7	Fluorene	2	103	U
118-74-1	Hexachlorobenzene	2	103	U
87-68-3	Hexachlorobutadiene	2	103	U
77-47-4	Hexachlorocyclopentadiene	2	103	U
67-72-1	Hexachloroethane	2	103	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	217	D
78-59-1	Isophorone	2	103	U
91-20-3	Naphthalene	2	103	U
98-95-3	Nitrobenzene	2	103	U
62-75-9	N-Nitrosodimethylamine	2	103	U
621-64-7	N-nitroso-di-n-propylamine	2	103	U
86-30-6	N-Nitrosodiphenylamine	2	103	U
87-86-5	Pentachlorophenol	2	103	U
85-01-8	Phenanthrene	2	280	D
108-95-2	Phenol	2	103	U
129-00-0	Pyrene	2	485	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2050	1140	55.7	20 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID: SV628951.D

Sampled: 02/04/20 09:40 Prepared: 02/10/20 07:21 Analyzed: 02/10/20 21:59

Solids: 81.01 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: Phenol-d5	2050	1300	63.5	23 - 114	
SURR: Nitrobenzene-d5	1030	724	70.6	22 - 108	
SURR: 2-Fluorobiphenyl	1030	714	69.6	21 - 113	
SURR: 2,4,6-Tribromophenol	2050	2170	106	19 - 110	
SURR: Terphenyl-d14	1030	794	77.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	976812	4.8	943755	4.8	
ISTD: Naphthalene-d8	3997013	5.74	4094325	5.74	
ISTD: Acenaphthene-d10	2593770	7.23	2468626	7.23	
ISTD: Phenanthrene-d10	5385231	9.16	5181551	9.17	
ISTD: Chrysene-d12	6190181	14.55	5930644	14.55	
ISTD: Perylene-d12	7179589	17.66	6994074	17.66	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628951.D Vial: 14
Acq On : 10 Feb 2020 9:59 pm Operator: OW
Sample : 20B0093-01 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:44 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

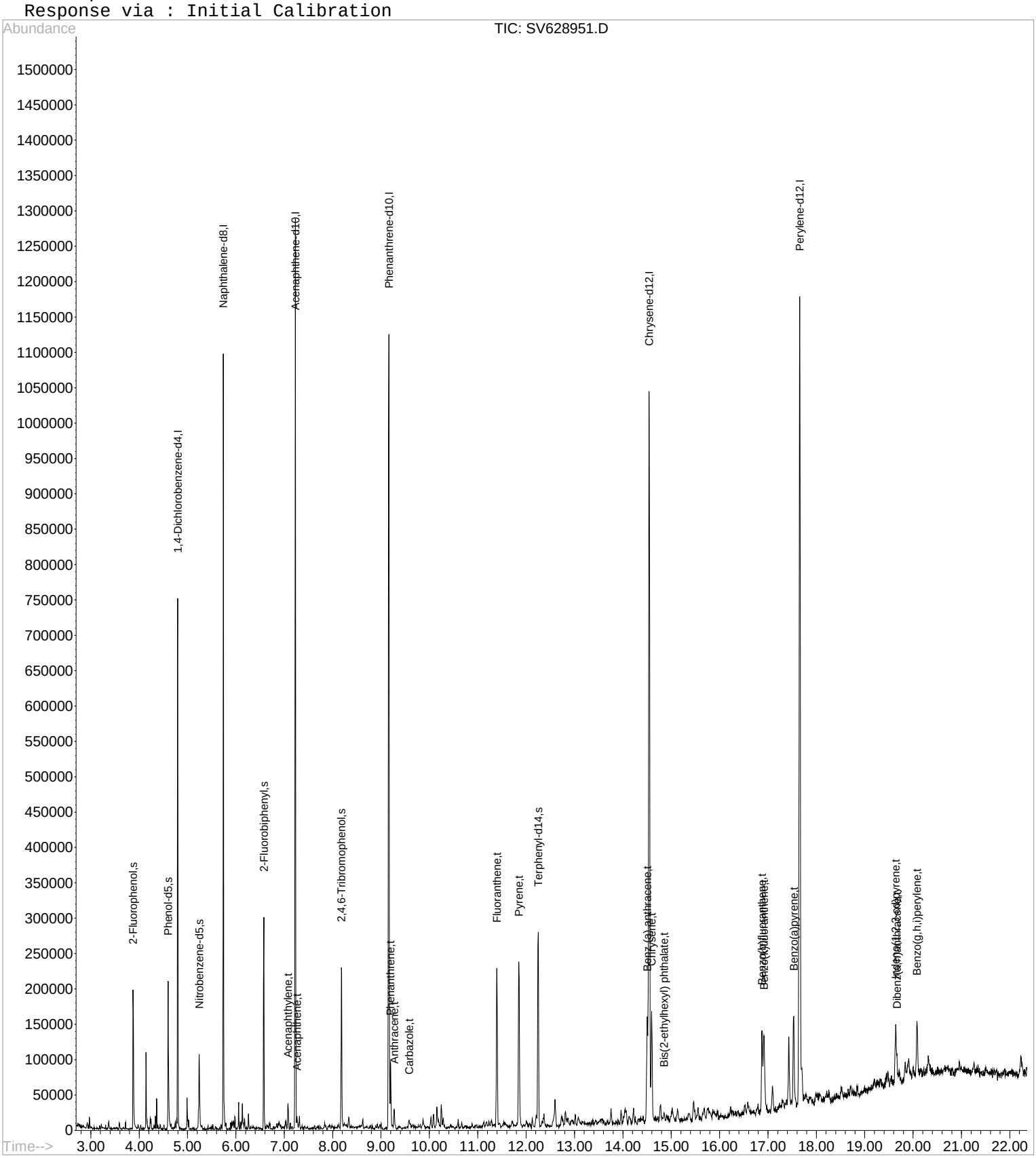
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	976812	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	3997013	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.23	164	2593770	40.00	ug/mL	-0.14
62) Phenanthrene-d10	9.16	188	5385231	40.00	ug/mL	-0.17
80) Chrysene-d12	14.55	240	6190181	40.00	ug/mL	-0.18
92) Perylene-d12	17.66	264	7179589	40.00	ug/mL	-0.16
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	496710	13.92	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 18.56%			
5) Phenol-d5	4.60	99	715439	15.88	ug/mL	-0.06
Spiked Amount 75.000	Range 10 - 100		Recovery = 21.17%			
22) Nitrobenzene-d5	5.24	82	311000	8.83	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 17.66%#			
45) 2-Fluorobiphenyl	6.58	172	779513	8.70	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 17.40%#			
67) 2,4,6-Tribromophenol	8.19	330	361607	26.50	ug/mL	-0.15
Spiked Amount 75.000	Range 35 - 126		Recovery = 35.33%			
82) Terphenyl-d14	12.25	244	1460013	9.68	ug/mL	-0.19
Spiked Amount 50.000	Range 35 - 127		Recovery = 19.36%#			
Target Compounds						Qvalue
50) Acenaphthylene	7.08	152	49205	0.36	ug/mL#	62
52) Acenaphthene	7.26	154	26071	0.34	ug/mL#	66
73) Phenanthrene	9.20	178	490237	3.41	ug/mL	98
74) Anthracene	9.27	178	139947	0.92	ug/mL#	91
75) Carbazole	9.58	167	46827	0.30	ug/mL#	96
78) Fluoranthene	11.40	202	1427843	8.39	ug/mL	98
81) Pyrene	11.85	202	1352072	5.91	ug/mL	97
84) Bis(2-ethylhexyl) phthalat	14.85	149	49237	0.33	ug/mL#	82
85) Benz (a) anthracene	14.50	228	937271m	4.51	ug/mL	
87) Chrysene	14.60	228	853814	4.27	ug/mL#	95
89) Benzo(b)fluoranthene	16.88	252	747563	3.97	ug/mL#	95
90) Benzo(k)fluoranthene	16.92	252	879325m	3.92	ug/mL	
91) Benzo(a)pyrene	17.53	252	902684m	4.81	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.64	276	583847	2.65	ug/mL#	75
94) Dibenz(a,h)anthracene	19.67	278	195360	1.24	ug/mL#	54
95) Benzo(g,h,i)perylene	20.08	276	538742	2.59	ug/mL#	91

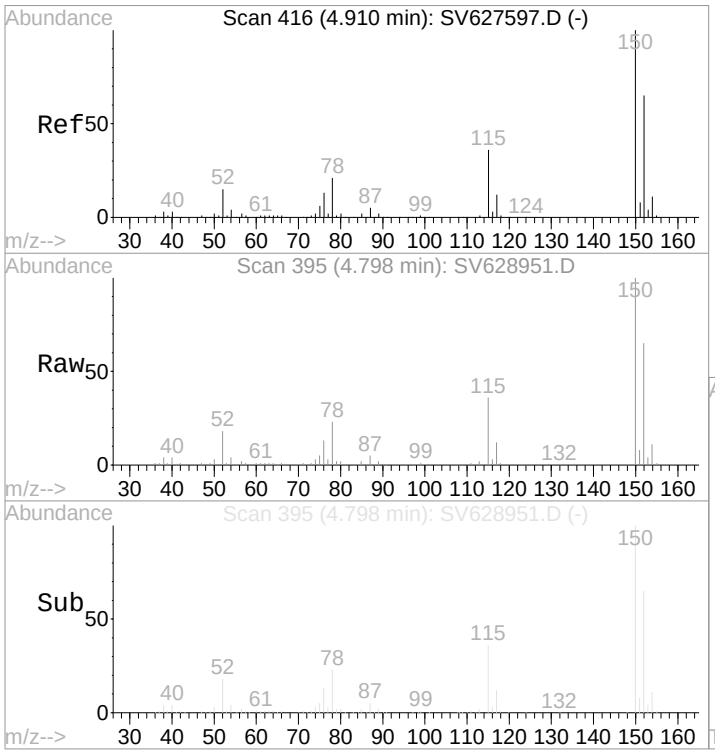
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628951.D Vial: 14
Acq On : 10 Feb 2020 9:59 pm Operator: OW
Sample : 20B0093-01 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:44 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

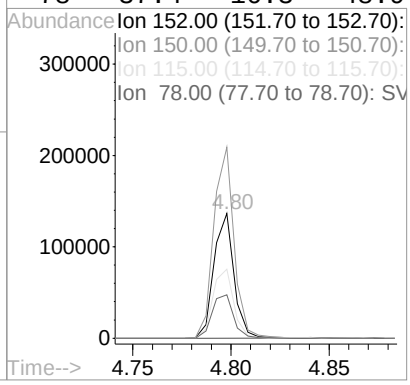


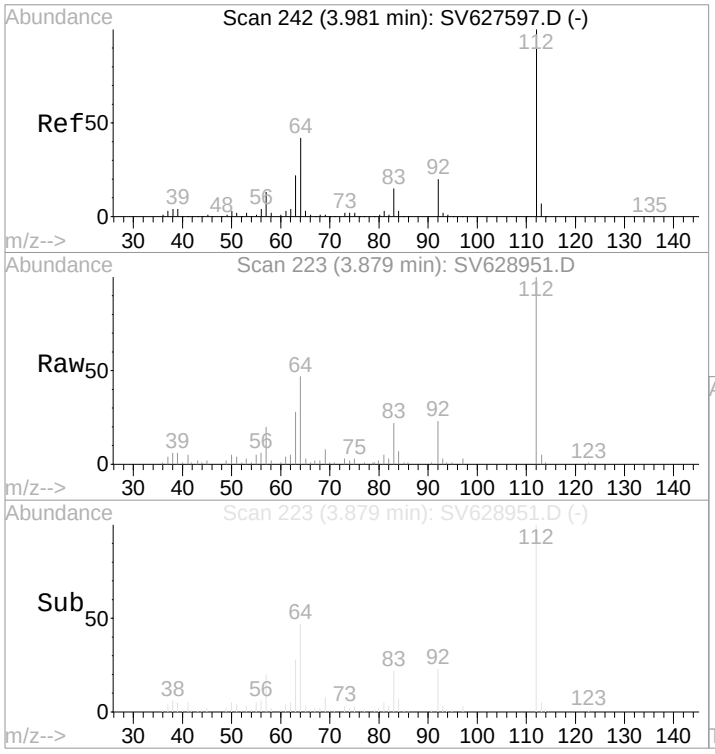


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 395
Delta R.T. -0.11 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:152 Resp: 976812

Ion	Ratio	Lower	Upper
152	100		
150	154.3	84.8	254.4
115	56.6	27.5	82.4
78	37.4	16.3	48.9

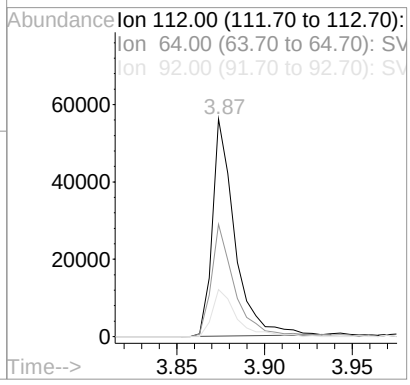


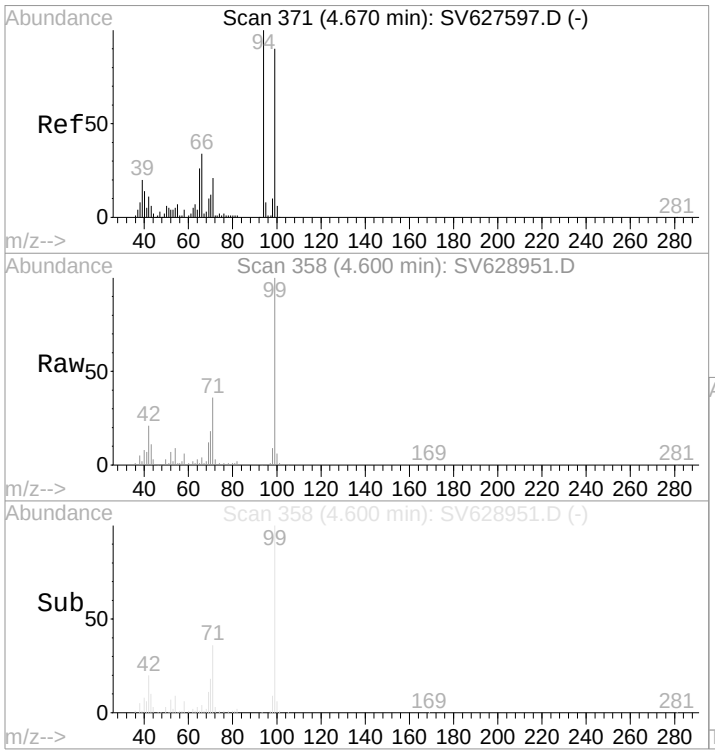


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.88 min Scan# 223
Delta R.T. -0.10 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:112 Resp: 496710

Ion	Ratio	Lower	Upper
112	100		
64	55.1	36.6	54.8#
92	24.0	16.2	24.4

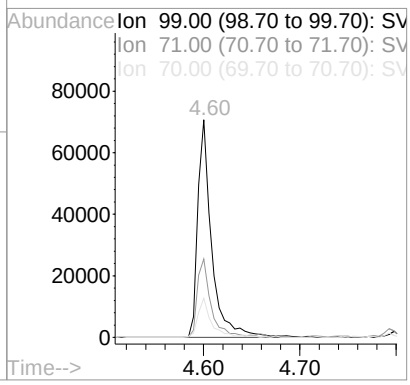


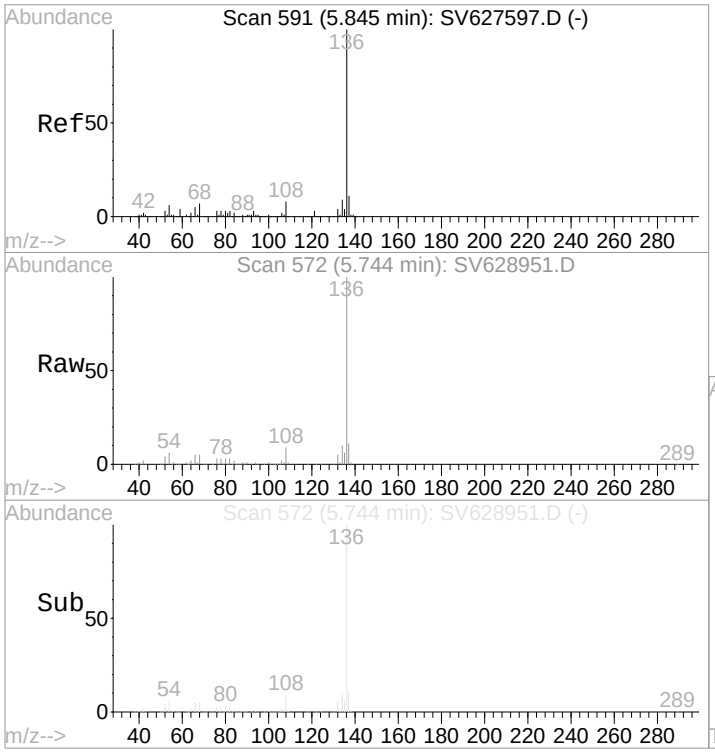


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.60 min Scan# 358
Delta R.T. -0.06 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion: 99 Resp: 715439

Ion	Ratio	Lower	Upper
99	100		
71	37.0	20.5	30.7#
70	17.4	10.3	15.5#

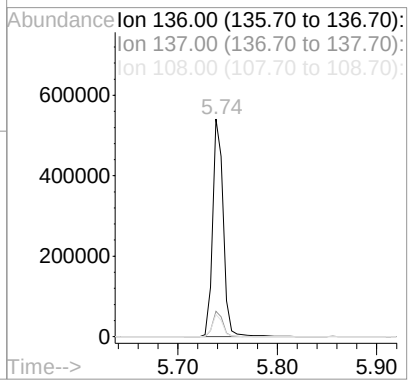


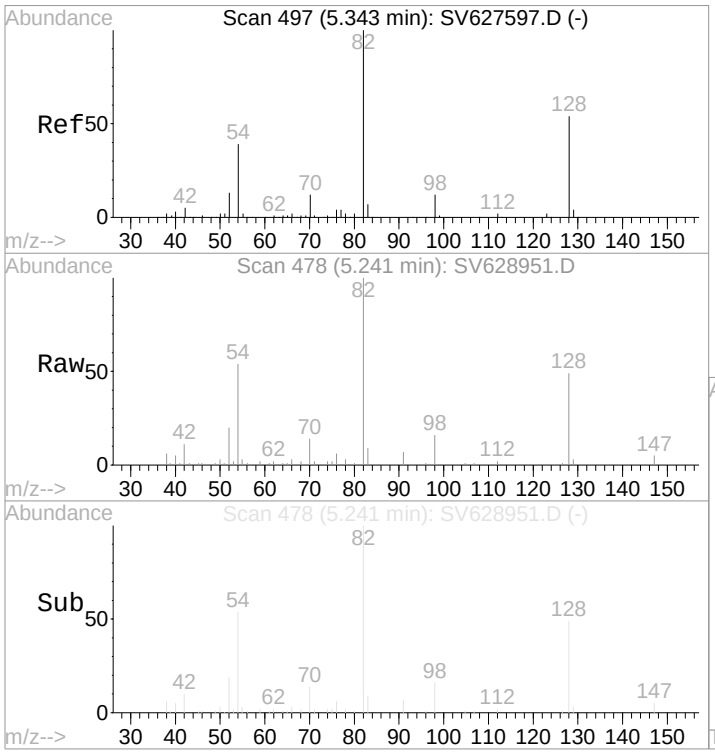


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.74 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:136 Resp: 3997013

Ion	Ratio	Lower	Upper
136	100		
137	11.3	5.7	17.0
108	10.0	4.2	12.4

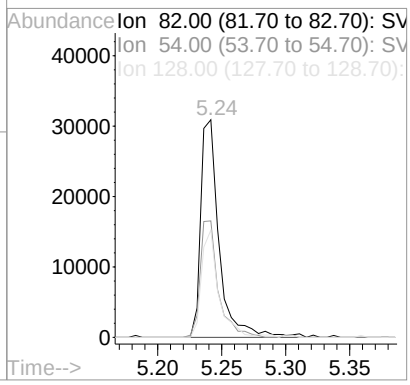


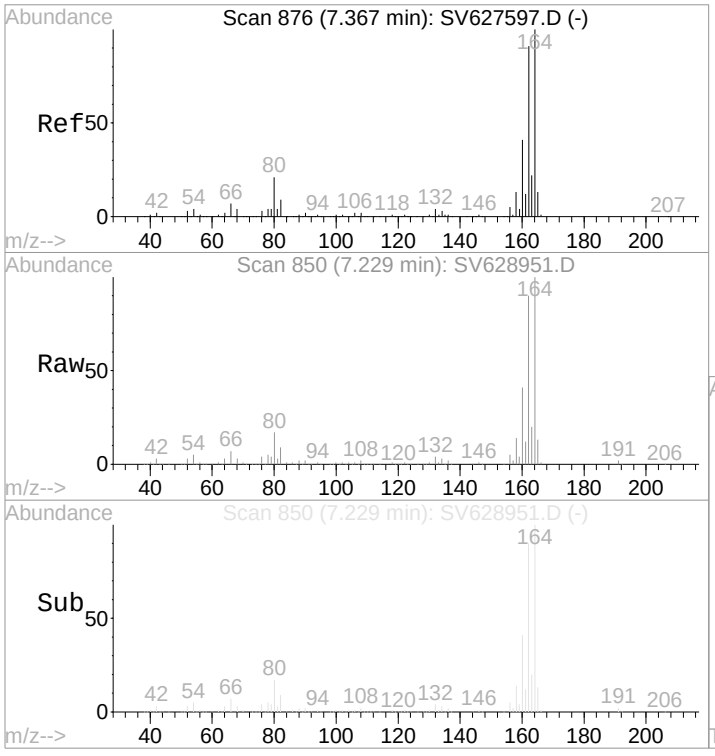


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.24 min Scan# 478
Delta R.T. -0.10 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion: 82 Resp: 311000

Ion	Ratio	Lower	Upper
82	100		
54	52.5	32.4	48.6#
128	47.0	41.3	61.9

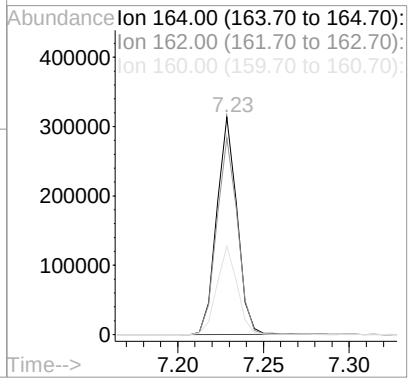


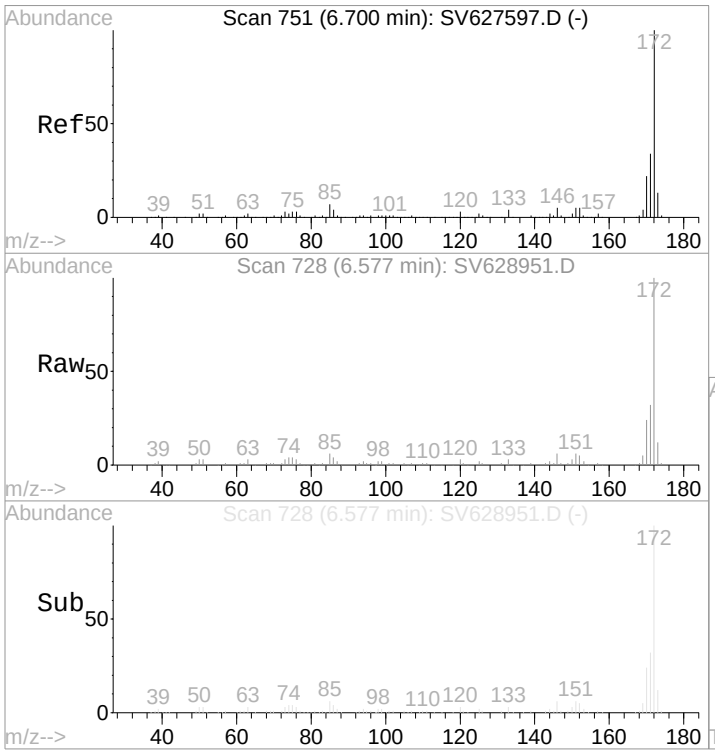


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.23 min Scan# 850
Delta R.T. -0.14 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:164 Resp: 2593770

Ion	Ratio	Lower	Upper
164	100		
162	92.8	46.5	139.3
160	41.0	20.9	62.7

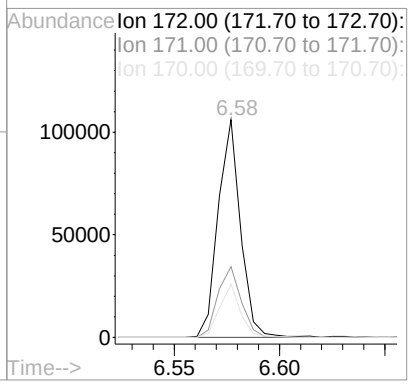


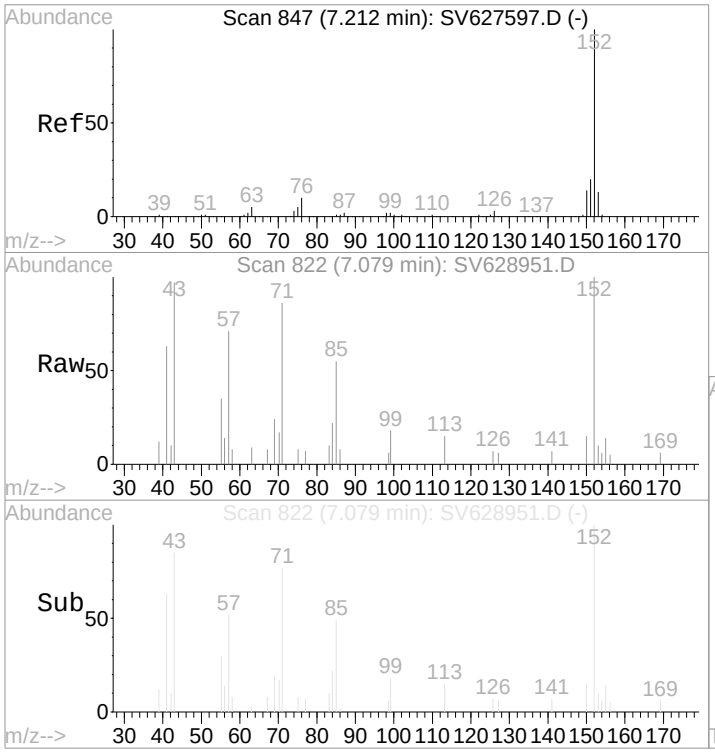


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 728
Delta R.T. -0.12 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:172 Resp: 779513

Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.2	40.8
170	22.9	18.1	27.1

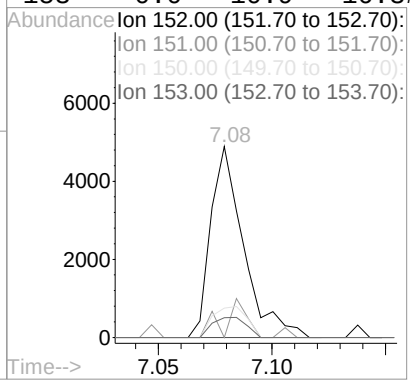


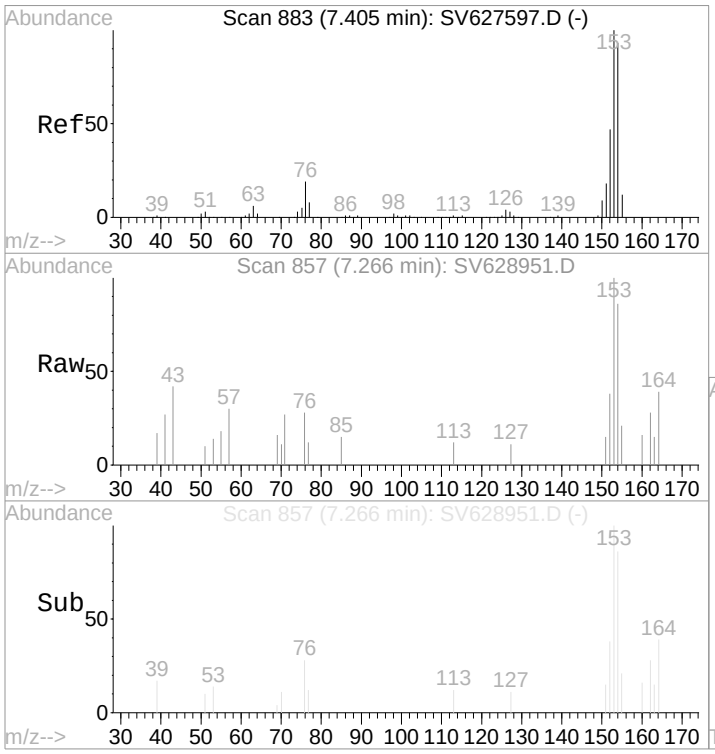


#50
Acenaphthylene
Concen: 0.36 ug/mL
RT: 7.08 min Scan# 822
Delta R.T. -0.13 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:152 Resp: 49205

Ion	Ratio	Lower	Upper
152	100		
151	0.0	15.7	23.5#
150	0.0	11.2	16.8#
153	0.0	10.9	16.3#

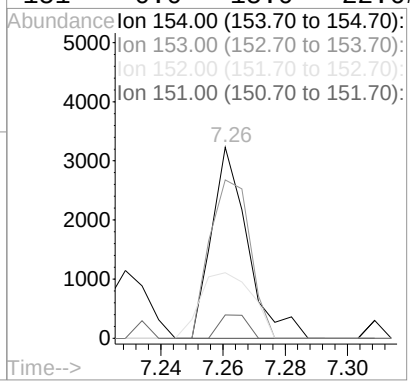


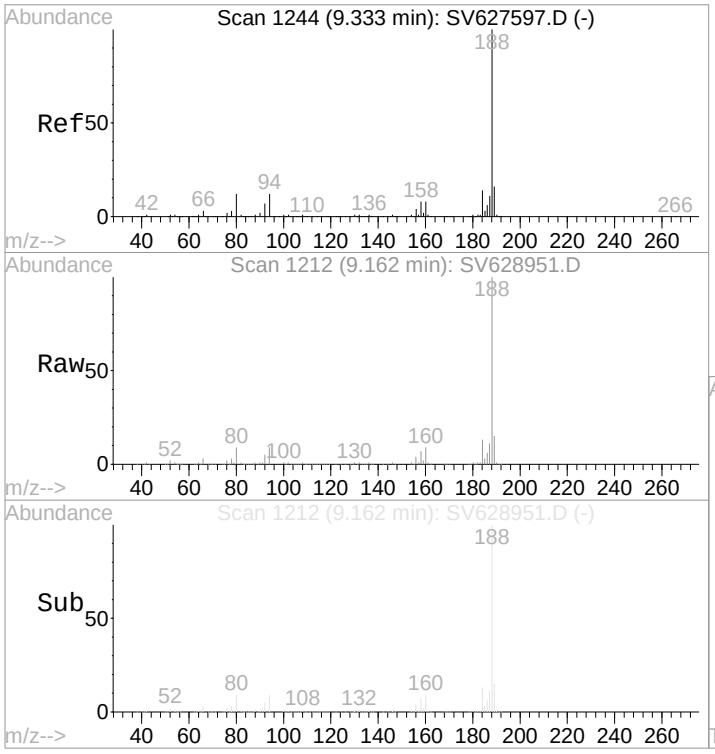


#52
Acenaphthene
Concen: 0.34 ug/mL
RT: 7.26 min Scan# 857
Delta R.T. -0.14 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:154 Resp: 26071

Ion	Ratio	Lower	Upper
154	100		
153	92.9	86.2	129.4
152	0.0	40.4	60.6#
151	0.0	15.0	22.6#

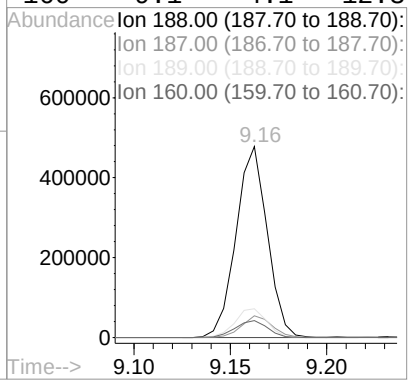


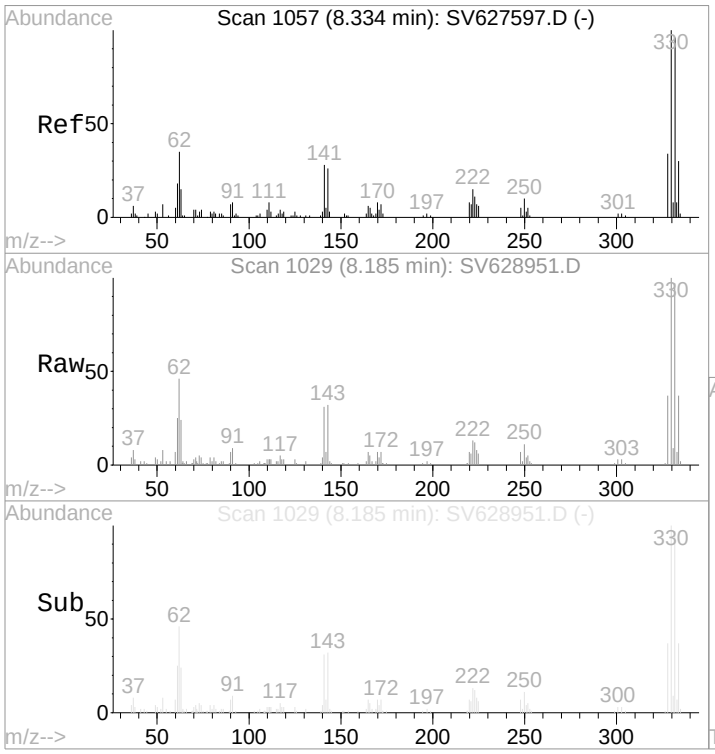


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.16 min Scan# 1212
Delta R.T. -0.17 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:188 Resp: 5385231

Ion	Ratio	Lower	Upper
188	100		
187	11.0	8.4	12.6
189	15.4	8.0	23.8
160	9.1	4.1	12.3

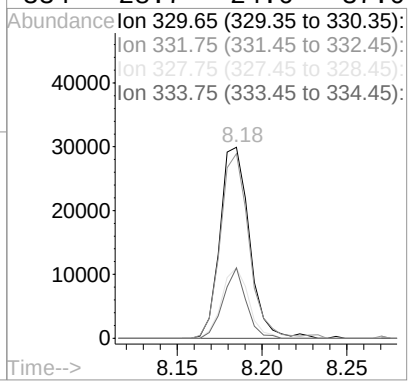


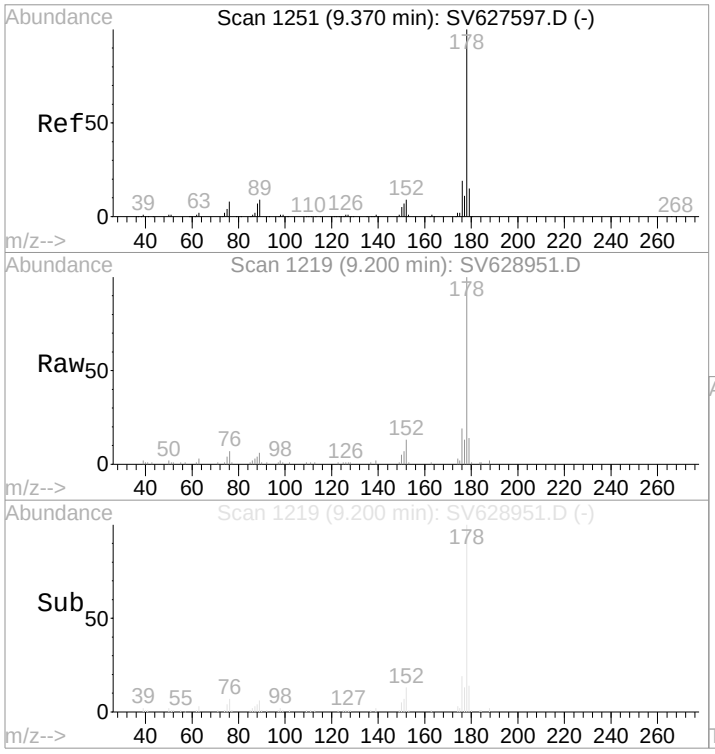


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.19 min Scan# 1029
Delta R.T. -0.15 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:330 Resp: 361607

Ion	Ratio	Lower	Upper
330	100		
332	93.7	74.2	111.2
328	33.7	28.5	42.7
334	28.7	24.6	37.0

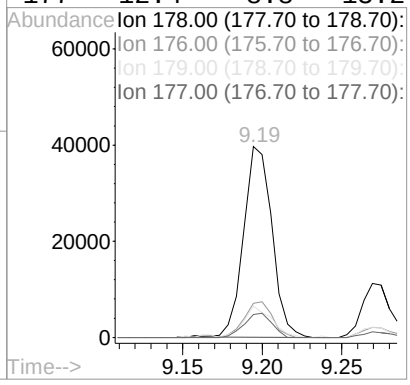


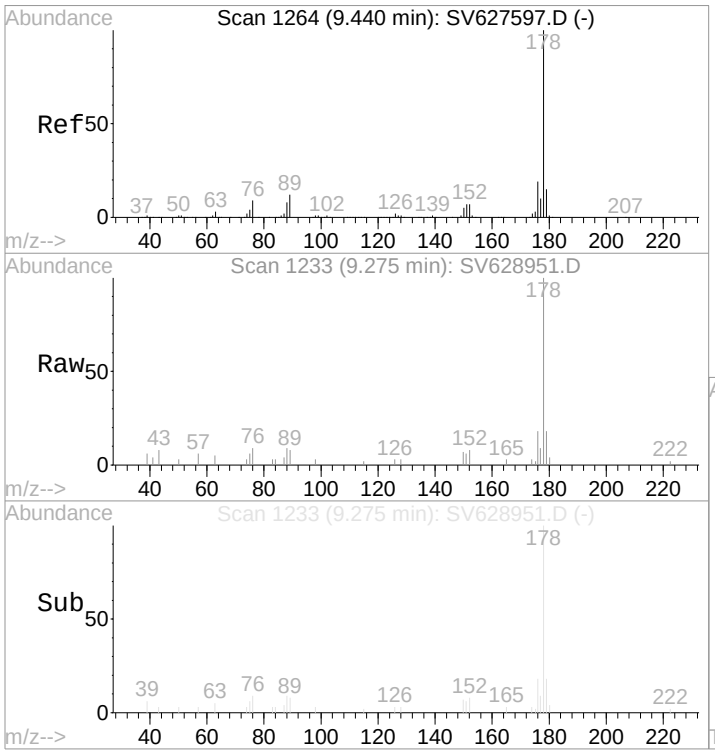


#73
Phenanthrene
Concen: 3.41 ug/mL
RT: 9.20 min Scan# 1219
Delta R.T. -0.17 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:178 Resp: 490237

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.2	22.8
179	15.3	12.5	18.7
177	12.4	8.8	13.2

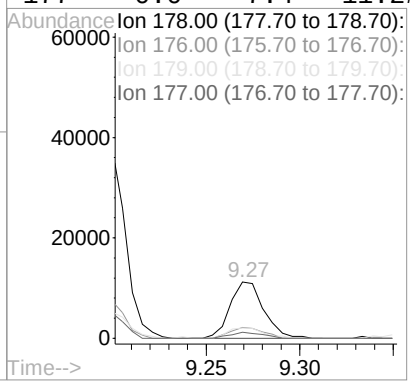


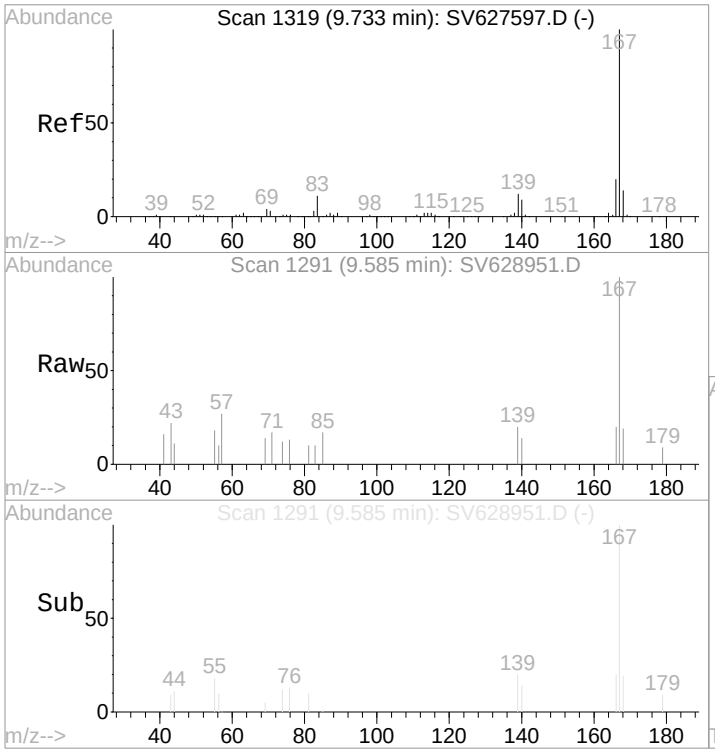


#74
Anthracene
Concen: 0.92 ug/mL
RT: 9.27 min Scan# 1233
Delta R.T. -0.16 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:178 Resp: 139947

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.5	21.7
179	19.2	12.5	18.7#
177	0.0	7.4	11.2#

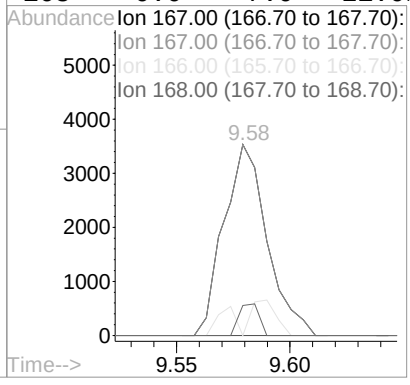


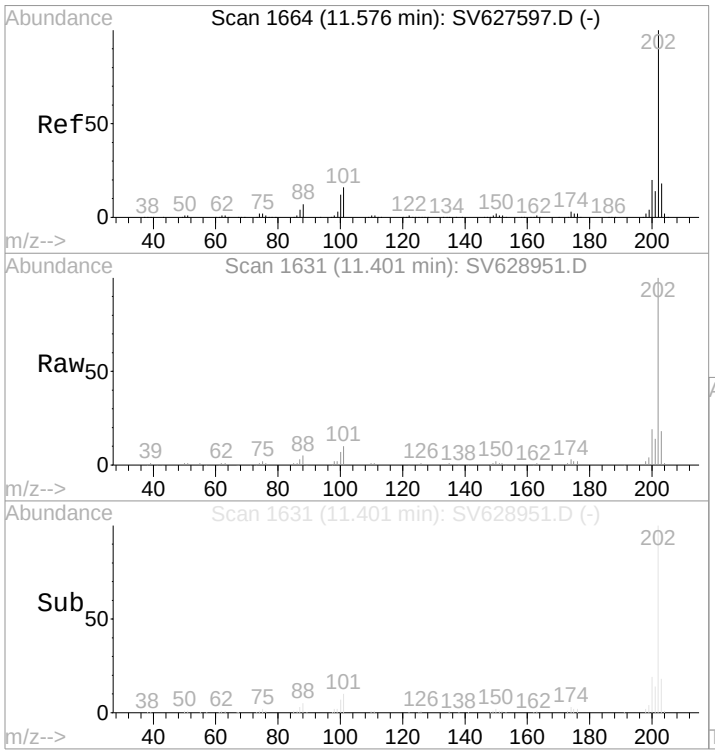


#75
Carbazole
Concen: 0.30 ug/mL
RT: 9.58 min Scan# 1291
Delta R.T. -0.15 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:167 Resp: 46827

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	0.0	0.0	0.0
168	0.0	7.0	21.0#

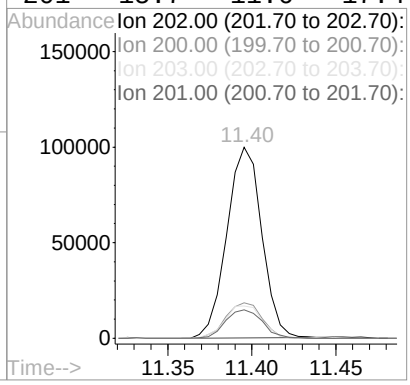


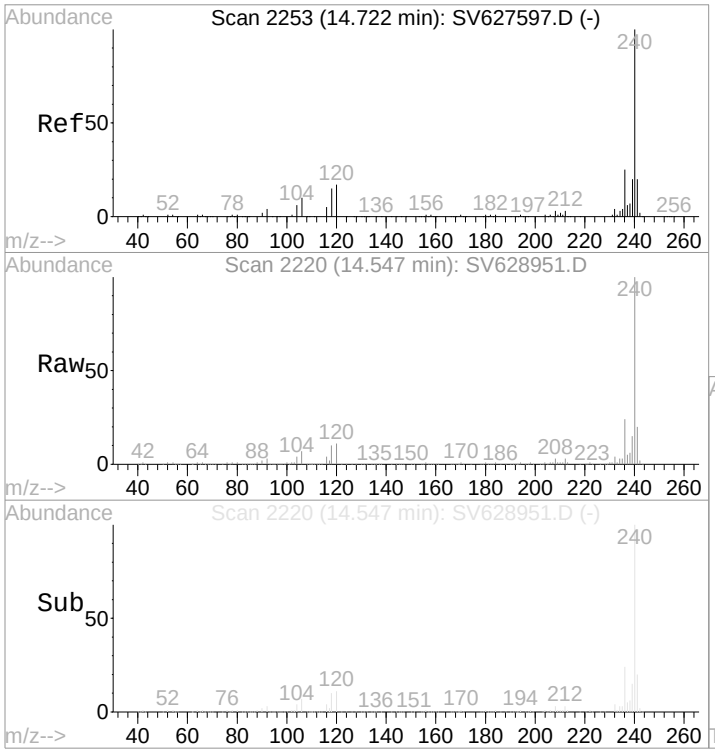


#78
Fluoranthene
Concen: 8.39 ug/mL
RT: 11.40 min Scan# 1631
Delta R.T. -0.18 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:202 Resp: 1427843

Ion	Ratio	Lower	Upper
202	100		
200	19.3	15.8	23.6
203	18.4	14.1	21.1
201	15.7	11.6	17.4

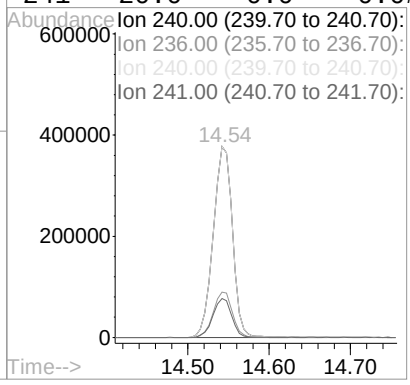


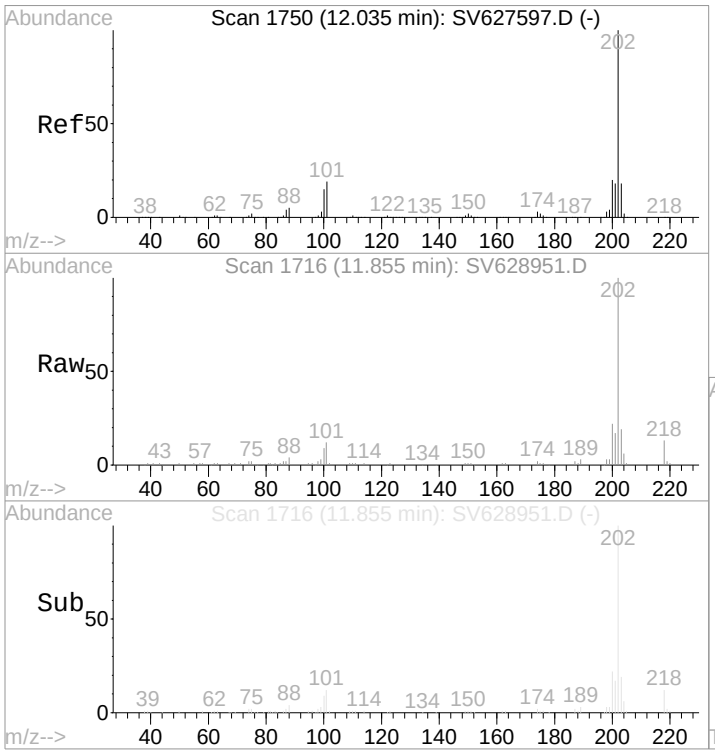


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.55 min Scan# 2220
Delta R.T. -0.18 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:240 Resp: 6190181

Ion	Ratio	Lower	Upper
240	100		
236	23.8	12.2	36.4
240	100.0	50.0	150.0
241	20.0	0.0	0.0#

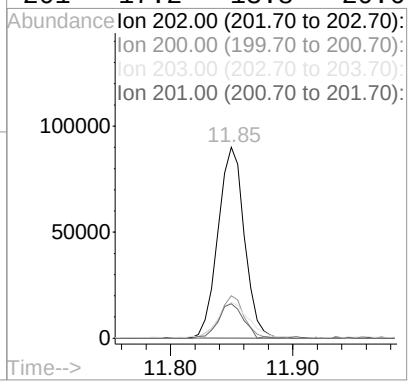


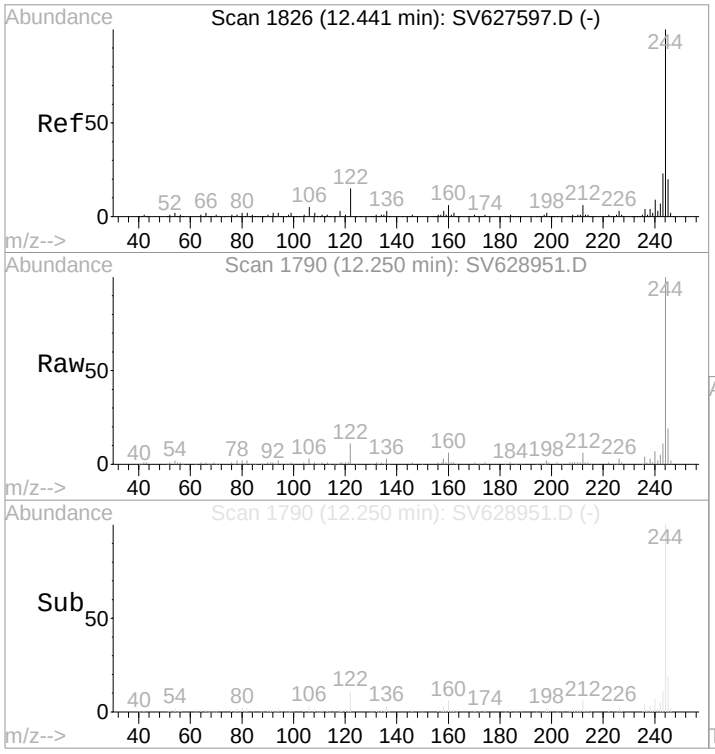


#81
Pyrene
Concen: 5.91 ug/mL
RT: 11.85 min Scan# 1716
Delta R.T. -0.18 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:202 Resp: 1352072

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.2	24.2
203	21.8	14.6	22.0
201	17.2	13.8	20.6

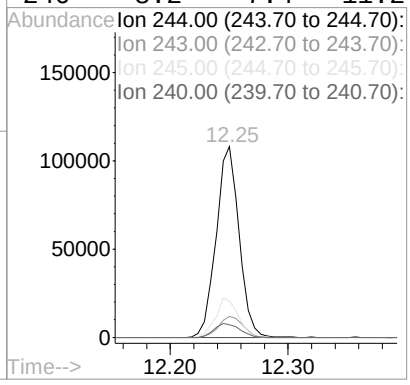


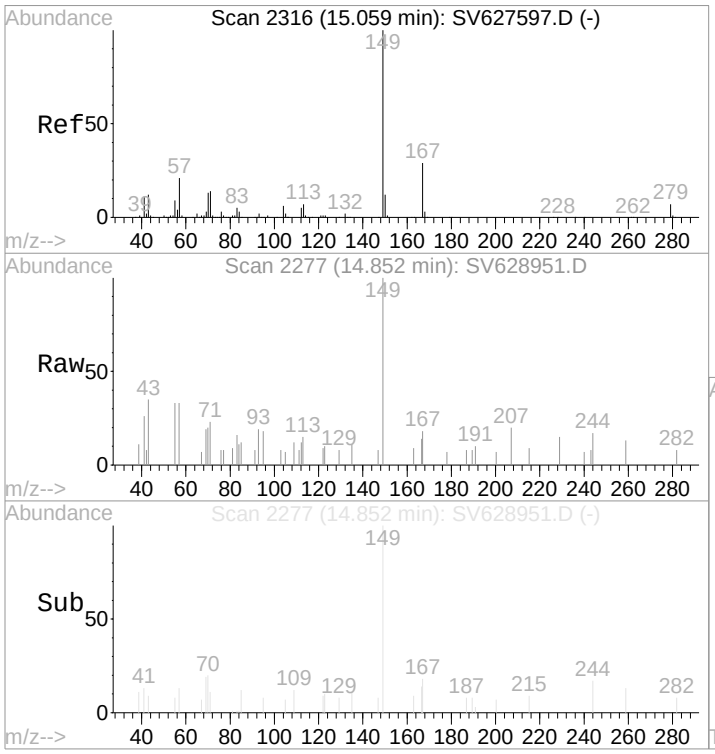


#82
Terphenyl-d14
Concen: 5.91 ug/mL
RT: 12.25 min Scan# 1790
Delta R.T. -0.19 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:244 Resp: 1460013

Ion	Ratio	Lower	Upper
244	100		
243	11.5	18.4	27.6#
245	20.3	15.4	23.0
240	8.2	7.4	11.2

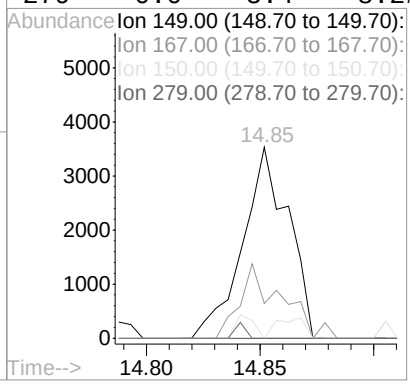


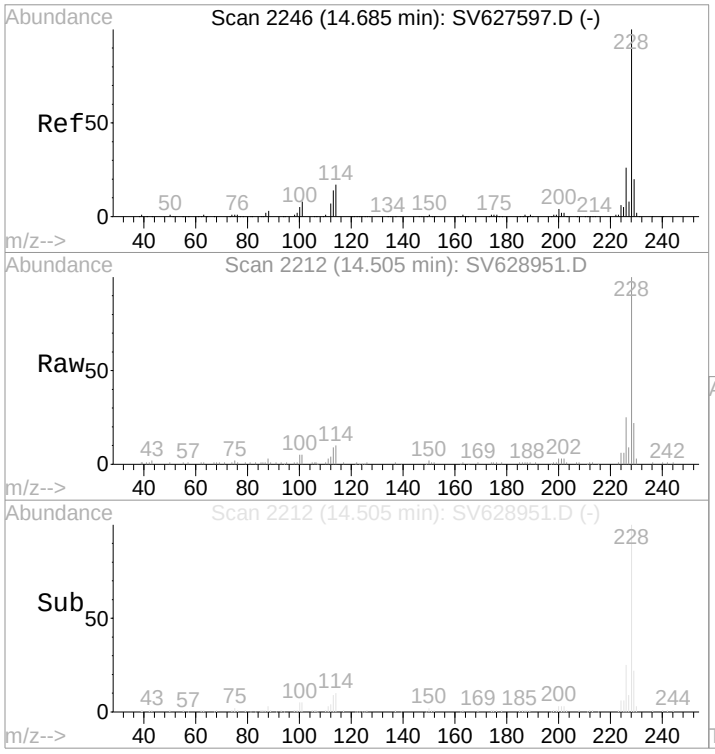


#84
Bis(2-ethylhexyl) phthalate
Concen: 0.33 ug/mL
RT: 14.85 min Scan# 2277
Delta R.T. -0.21 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:149 Resp: 49237

Ion	Ratio	Lower	Upper
149	100		
167	35.7	23.4	35.0#
150	0.0	9.4	14.0#
279	0.0	5.4	8.2#

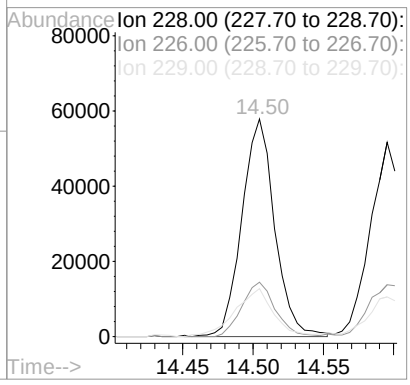


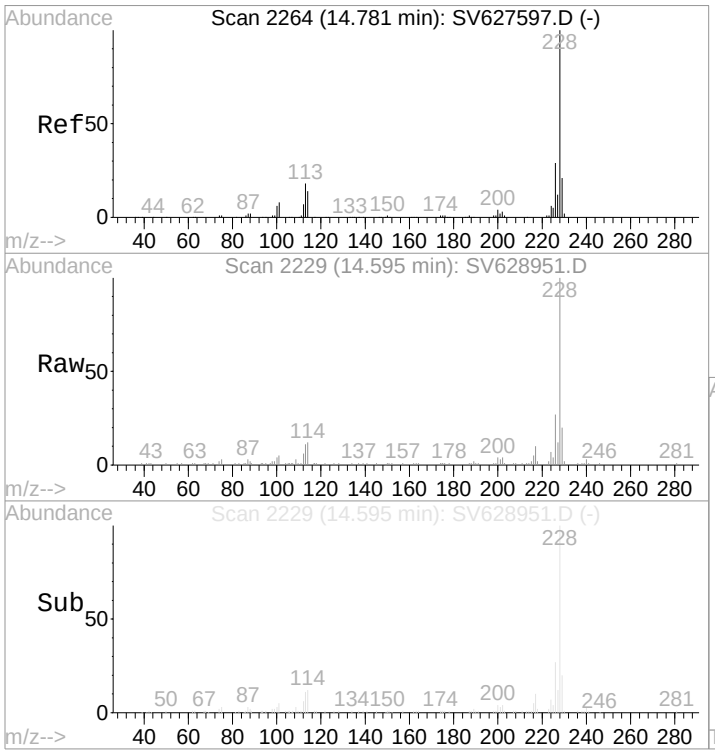


#85
Benz (a) anthracene
Concen: 4.51 ug/mL m
RT: 14.50 min Scan# 2212
Delta R.T. -0.17 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:228 Resp: 937271

Ion	Ratio	Lower	Upper
228	100		
226	25.5	21.3	31.9
229	19.3	16.4	24.6

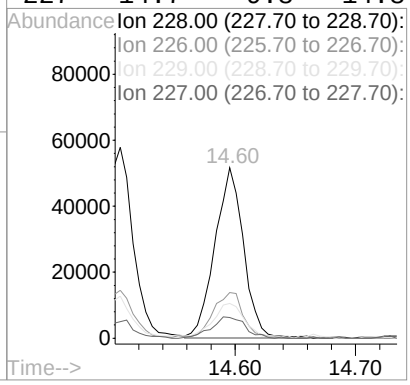


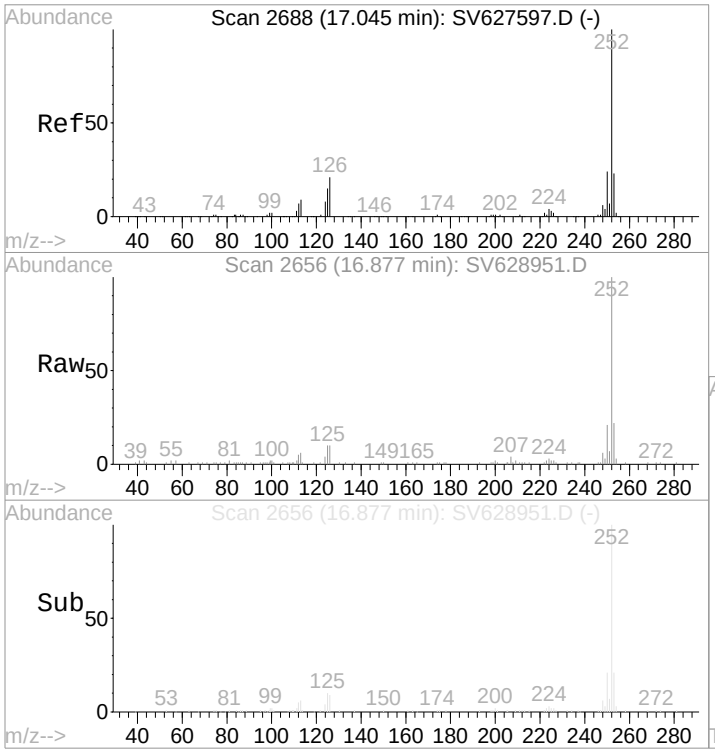


#87
Chrysene
Concen: 4.27 ug/mL
RT: 14.60 min Scan# 2229
Delta R.T. -0.18 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:228 Resp: 853814

Ion	Ratio	Lower	Upper
228	100		
226	28.8	23.6	35.4
229	24.4	15.5	23.3#
227	14.7	9.8	14.8

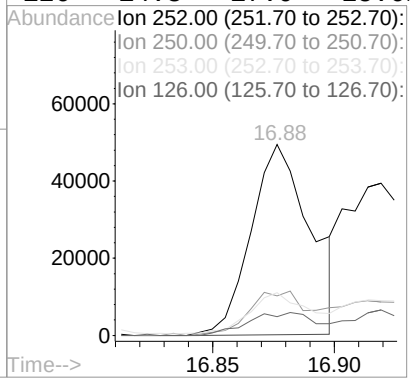


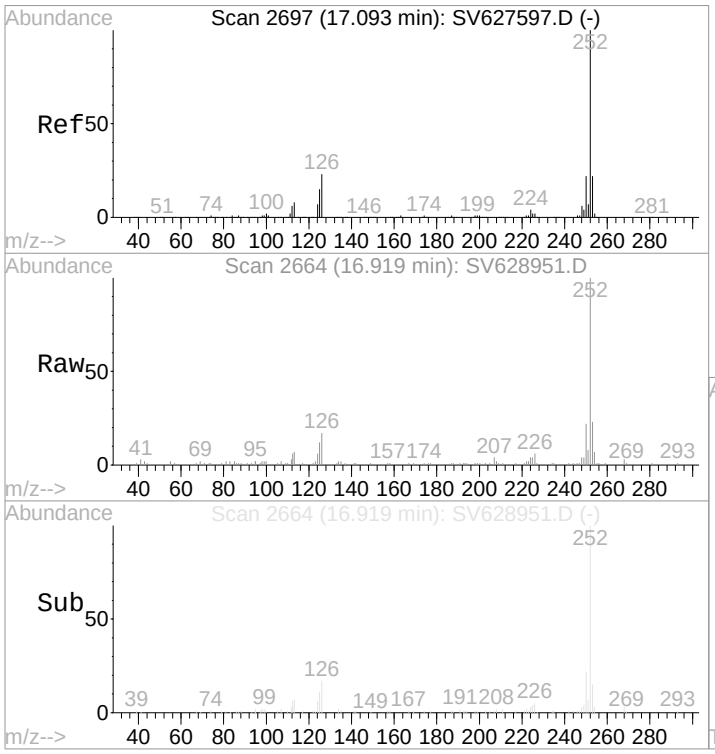


#89
Benzo(b)fluoranthene
Concen: 3.97 ug/mL
RT: 16.88 min Scan# 2656
Delta R.T. -0.16 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:252 Resp: 747563

Ion	Ratio	Lower	Upper
252	100		
250	22.7	18.2	27.4
253	23.2	17.9	26.9
126	14.3	17.0	25.6#

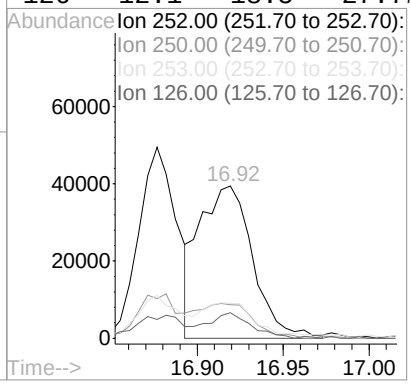


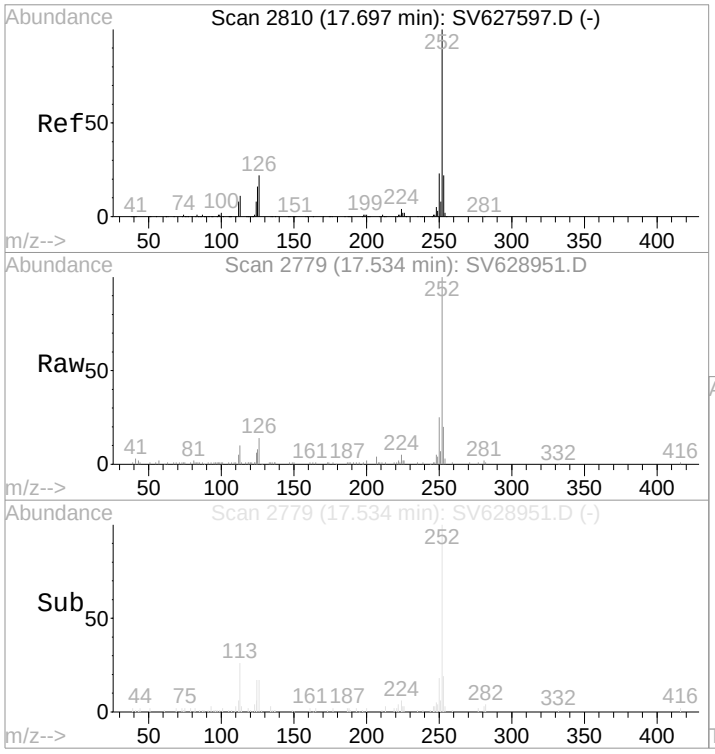


#90
Benzo(k)fluoranthene
Concen: 3.92 ug/mL m
RT: 16.92 min Scan# 2664
Delta R.T. -0.17 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:252 Resp: 879325

Ion	Ratio	Lower	Upper
252	100		
250	19.2	17.2	25.8
253	19.8	18.1	27.1
126	12.1	18.5	27.7#

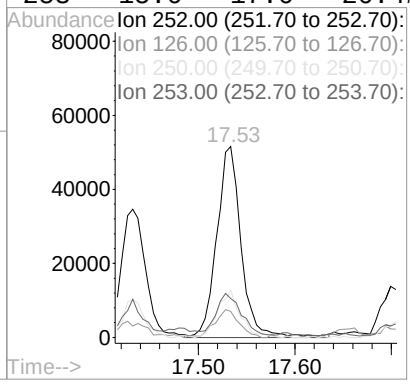


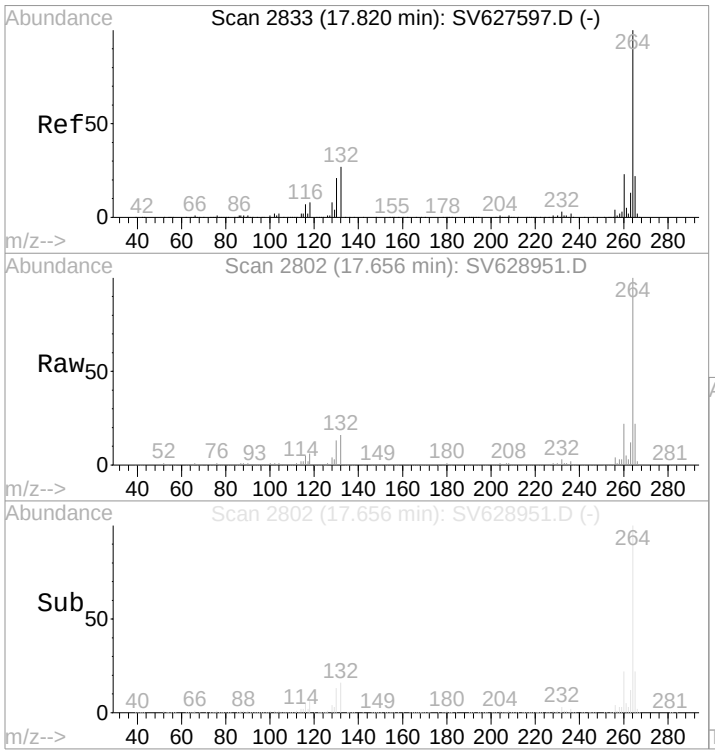


#91
Benzo(a)pyrene
Concen: 4.81 ug/mL m
RT: 17.53 min Scan# 2779
Delta R.T. -0.15 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:252 Resp: 902684

Ion	Ratio	Lower	Upper
252	100		
126	10.0	18.4	27.6#
250	18.5	17.8	26.8
253	15.6	17.6	26.4#

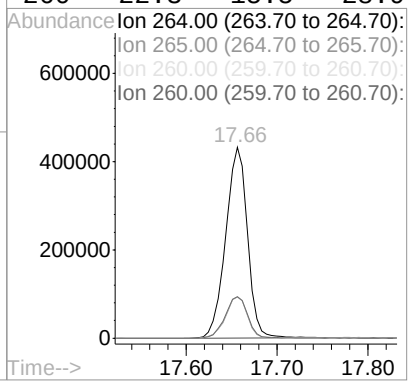


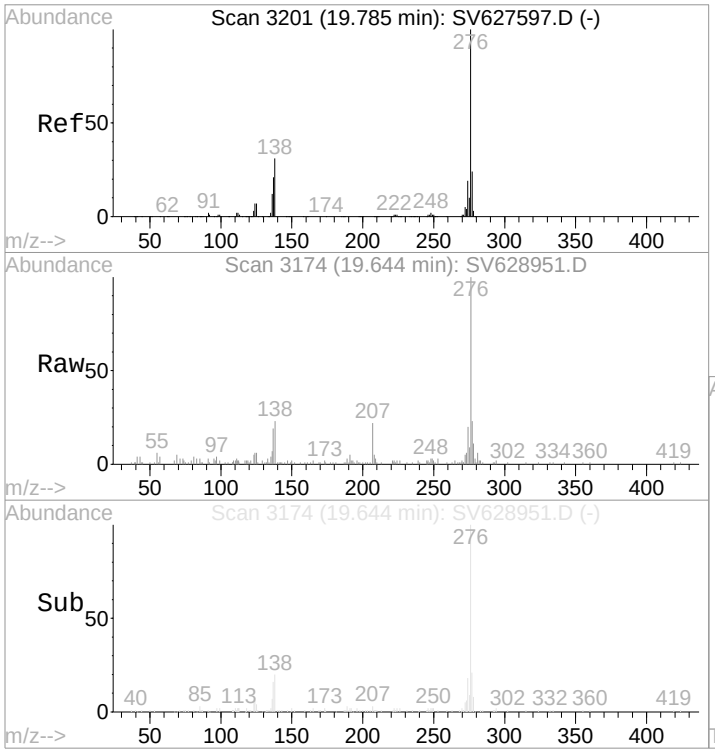


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.66 min Scan# 2802
Delta R.T. -0.16 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:264 Resp: 7179589

Ion	Ratio	Lower	Upper
264	100		
265	21.8	0.0	0.0#
260	22.3	17.8	26.6
260	22.3	15.5	28.9

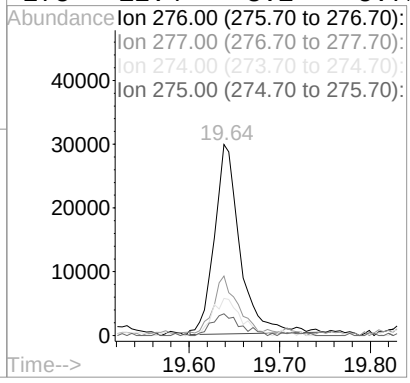


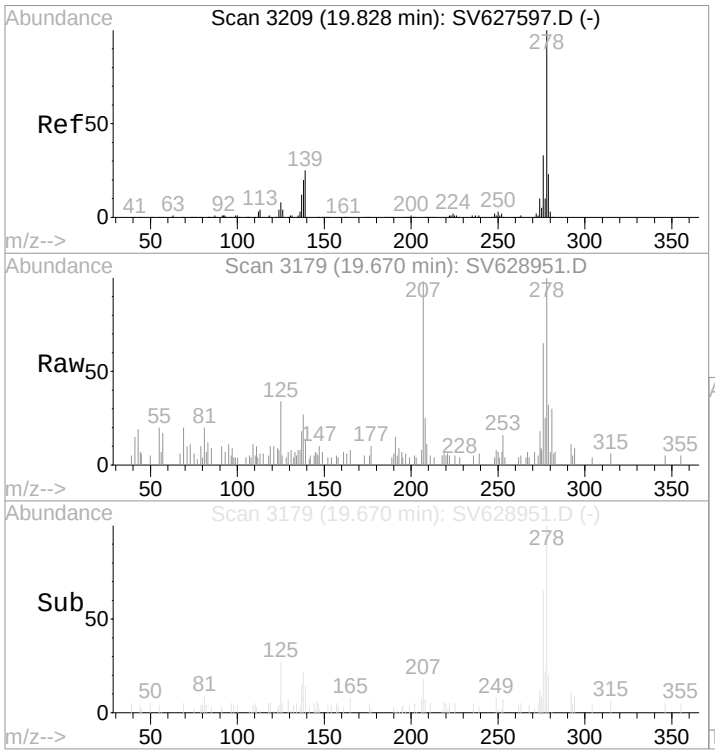


#93
Indeno(1,2,3-cd)pyrene
Concen: 2.65 ug/mL
RT: 19.64 min Scan# 3174
Delta R.T. -0.14 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:276 Resp: 583847

Ion	Ratio	Lower	Upper
276	100		
277	28.7	12.9	19.3#
274	21.5	10.8	16.2#
275	12.4	3.1	5.7#

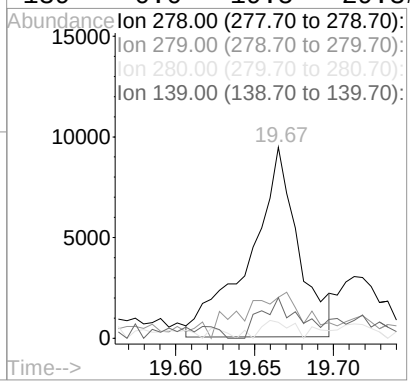


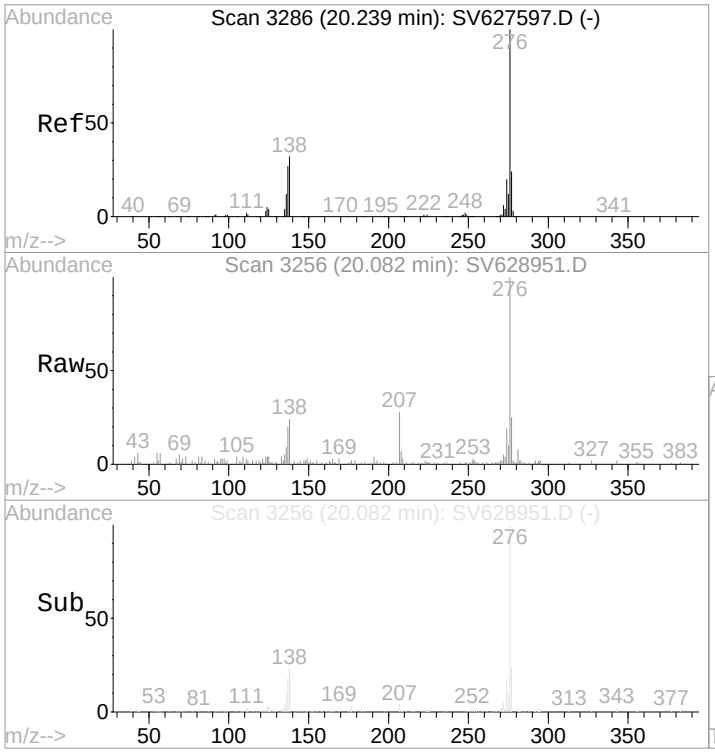


#94
Dibenz(a,h)anthracene
Concen: 1.24 ug/mL
RT: 19.67 min Scan# 3179
Delta R.T. -0.15 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:278 Resp: 195360

Ion	Ratio	Lower	Upper
278	100		
279	0.0	18.5	27.7#
280	0.0	0.0	5.0
139	0.0	19.5	29.3#

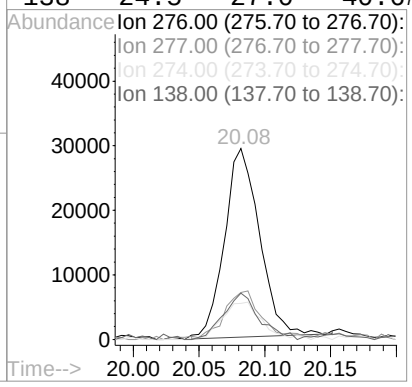




#95
Benzo(g,h,i)perylene
Concen: 2.59 ug/mL
RT: 20.08 min Scan# 3256
Delta R.T. -0.14 min
Lab File: SV628951.D
Acq: 10 Feb 2020 9:59 pm

Tgt Ion:276 Resp: 538742

Ion	Ratio	Lower	Upper
276	100		
277	26.2	19.1	28.7
274	22.6	0.0	42.2
138	24.5	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID: SV628952.D

Sampled: 02/04/20 10:10 Prepared: 02/10/20 07:21 Analyzed: 02/10/20 22:32

Solids: 76.97 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
92-52-4	1,1-Biphenyl	2	780	D
95-94-3	1,2,4,5-Tetrachlorobenzene	2	213	U
120-82-1	1,2,4-Trichlorobenzene	2	107	U
95-50-1	1,2-Dichlorobenzene	2	107	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	107	U
541-73-1	1,3-Dichlorobenzene	2	107	U
106-46-7	1,4-Dichlorobenzene	2	107	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	213	U
95-95-4	2,4,5-Trichlorophenol	2	107	U
88-06-2	2,4,6-Trichlorophenol	2	107	U
120-83-2	2,4-Dichlorophenol	2	107	U
105-67-9	2,4-Dimethylphenol	2	525	D
51-28-5	2,4-Dinitrophenol	2	213	U
121-14-2	2,4-Dinitrotoluene	2	107	U
606-20-2	2,6-Dinitrotoluene	2	107	U
91-58-7	2-Chloronaphthalene	2	107	U
95-57-8	2-Chlorophenol	2	107	U
95-48-7	2-Methylphenol	2	308	D
88-74-4	2-Nitroaniline	2	213	U
88-75-5	2-Nitrophenol	2	107	U
65794-96-9	3- & 4-Methylphenols	2	665	D
91-94-1	3,3-Dichlorobenzidine	2	107	U
99-09-2	3-Nitroaniline	2	213	U
534-52-1	4,6-Dinitro-2-methylphenol	2	213	U
101-55-3	4-Bromophenyl phenyl ether	2	107	U
59-50-7	4-Chloro-3-methylphenol	2	107	U
106-47-8	4-Chloroaniline	2	107	U
7005-72-3	4-Chlorophenyl phenyl ether	2	107	U
100-01-6	4-Nitroaniline	2	213	U
100-02-7	4-Nitrophenol	2	213	U
208-96-8	Acenaphthylene	2	182	D
98-86-2	Acetophenone	2	107	U
62-53-3	Aniline	2	427	U
1912-24-9	Atrazine	2	107	U
100-52-7	Benzaldehyde	2	107	U
92-87-5	Benzidine	2	427	U
65-85-0	Benzoic acid	2	107	U
100-51-6	Benzyl alcohol	2	107	U
85-68-7	Benzyl butyl phthalate	2	107	U
111-91-1	Bis(2-chloroethoxy)methane	2	107	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID: SV628952.D

Sampled: 02/04/20 10:10 Prepared: 02/10/20 07:21 Analyzed: 02/10/20 22:32

Solids: 76.97 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
111-44-4	Bis(2-chloroethyl)ether	2	107	U
108-60-1	Bis(2-chloroisopropyl)ether	2	107	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	107	U
105-60-2	Caprolactam	2	213	U
132-64-9	Dibenzofuran	2	3090	D
84-66-2	Diethyl phthalate	2	107	U
131-11-3	Dimethyl phthalate	2	107	U
84-74-2	Di-n-butyl phthalate	2	107	U
117-84-0	Di-n-octyl phthalate	2	107	U
118-74-1	Hexachlorobenzene	2	107	U
87-68-3	Hexachlorobutadiene	2	107	U
77-47-4	Hexachlorocyclopentadiene	2	107	U
67-72-1	Hexachloroethane	2	107	U
78-59-1	Isophorone	2	107	U
98-95-3	Nitrobenzene	2	107	U
62-75-9	N-Nitrosodimethylamine	2	107	U
621-64-7	N-nitroso-di-n-propylamine	2	107	U
86-30-6	N-Nitrosodiphenylamine	2	107	U
87-86-5	Pentachlorophenol	2	107	U
108-95-2	Phenol	2	285	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2130	1160	54.2	20 - 108	
SURR: Phenol-d5	2130	1250	58.6	23 - 114	
SURR: Nitrobenzene-d5	1060	733	68.8	22 - 108	
SURR: 2-Fluorobiphenyl	1060	669	62.8	21 - 113	
SURR: 2,4,6-Tribromophenol	2130	2020	94.6	19 - 110	
SURR: Terphenyl-d14	1060	739	69.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1101697	4.8	943755	4.8	
ISTD: Naphthalene-d8	4394413	5.74	4094325	5.74	
ISTD: Acenaphthene-d10	2825644	7.23	2468626	7.23	
ISTD: Phenanthrene-d10	6082556	9.18	5181551	9.17	
ISTD: Chrysene-d12	7728196	14.63	5930644	14.55	
ISTD: Perylene-d12	8223852	17.76	6994074	17.66	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628952.D Vial: 15
Acq On : 10 Feb 2020 10:32 pm Operator: OW
Sample : 20B0093-02 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:46 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

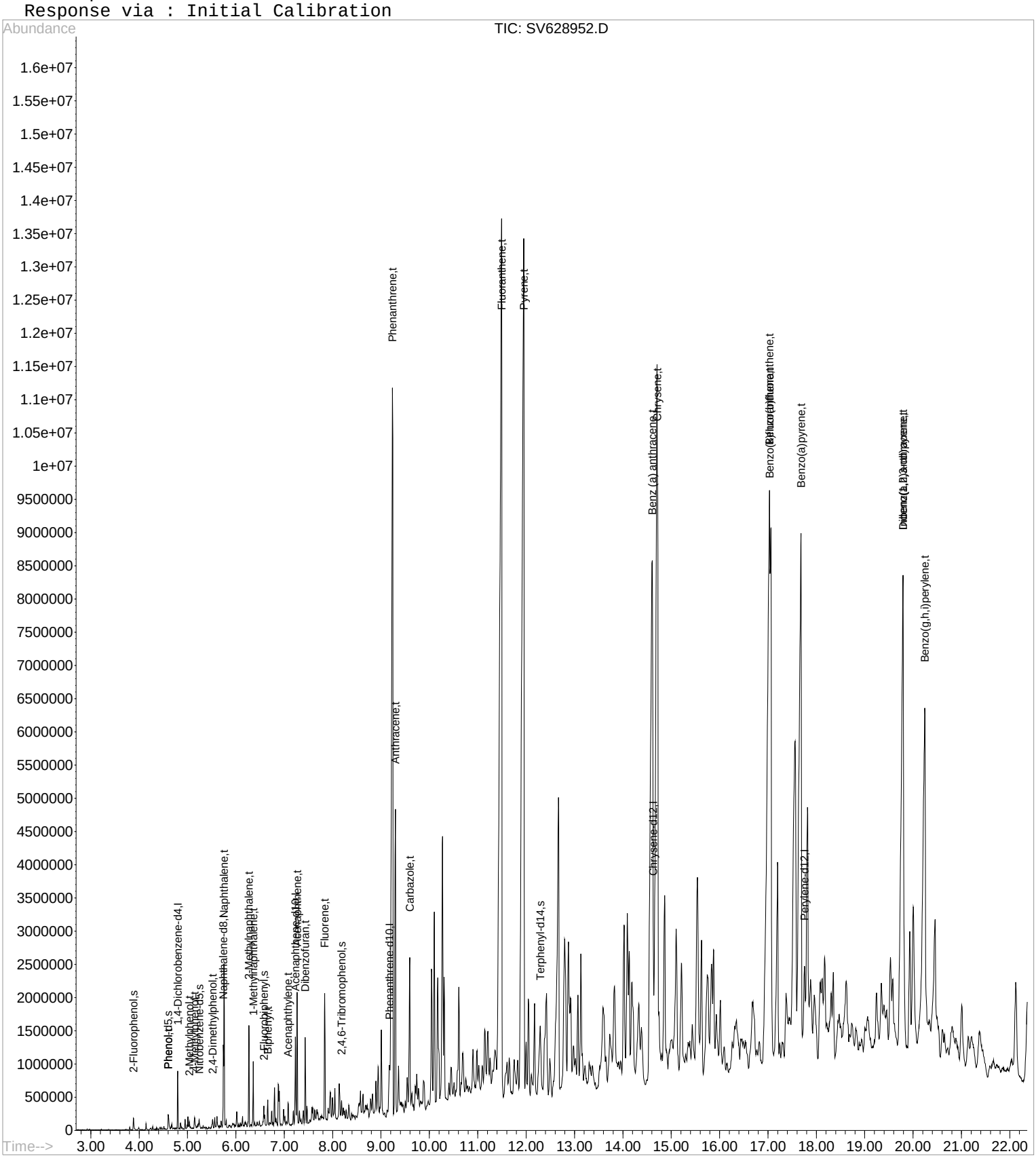
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	1101697	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	4394413	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.23	164	2825644	40.00	ug/mL	-0.14
62) Phenanthrene-d10	9.18	188	6082556	40.00	ug/mL	-0.16
80) Chrysene-d12	14.63	240	7728196m	40.00	ug/mL	-0.09
92) Perylene-d12	17.76	264	8223852	40.00	ug/mL	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	545567	13.56	ug/mL	-0.09
Spiked Amount 75.000	Range 15 - 87		Recovery = 18.08%			
5) Phenol-d5	4.60	99	744579	14.66	ug/mL	-0.06
Spiked Amount 75.000	Range 10 - 100		Recovery = 19.55%			
22) Nitrobenzene-d5	5.24	82	333022	8.60	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 17.20%#			
45) 2-Fluorobiphenyl	6.58	172	766427	7.85	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 15.70%#			
67) 2,4,6-Tribromophenol	8.19	330	364611	23.66	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 31.55%#			
82) Terphenyl-d14	12.29	244	1631663	8.67	ug/mL	-0.15
Spiked Amount 50.000	Range 35 - 127		Recovery = 17.34%#			
Target Compounds						Qvalue
8) Phenol	4.61	94	181853	3.34	ug/mL#	50
15) 2-Methylphenol	5.04	107	140976	3.61	ug/mL#	81
19) 4-Methylphenol	5.14	107	451003m	7.80	ug/mL	
26) 2,4-Dimethylphenol	5.52	122	244925	6.16	ug/mL	88
32) Naphthalene	5.76	128	8075506	71.33	ug/mL	97
37) 1-Methylnaphthalene	6.36	141	1862786m	23.30	ug/mL	
38) 2-Methylnaphthalene	6.27	142	3545741	44.37	ug/mL	97
42) Biphenyl	6.66	153	425610	9.16	ug/mL	99
50) Acenaphthylene	7.08	152	315791	2.14	ug/mL#	82
52) Acenaphthene	7.27	154	4406122	53.28	ug/mL	99
54) Dibenzofuran	7.43	168	4646557	36.27	ug/mL	97
59) Fluorene	7.84	166	5734072	55.70	ug/mL	98
73) Phenanthrene	9.24	178	71459273	439.70	ug/mL#	84
74) Anthracene	9.30	178	21764528	126.49	ug/mL#	90
75) Carbazole	9.59	167	14106108	78.93	ug/mL#	100
78) Fluoranthene	11.49	202	130489041m	679.18	ug/mL	
81) Pyrene	11.95	202	121616554m	425.51	ug/mL	
85) Benz (a) anthracene	14.60	228	94311046m	363.76	ug/mL	
87) Chrysene	14.72	228	90318077m	361.62	ug/mL	
89) Benzo(b)fluoranthene	17.03	252	122287026m	519.77	ug/mL	
90) Benzo(k)fluoranthene	17.04	252	43776534m	156.18	ug/mL	
91) Benzo(a)pyrene	17.68	252	87195410m	372.39	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.79	276	70394758	279.30	ug/mL#	71
94) Dibenz(a,h)anthracene	19.79	278	36302438	201.35	ug/mL#	81
95) Benzo(g,h,i)perylene	20.24	276	64502261	270.97	ug/mL#	89

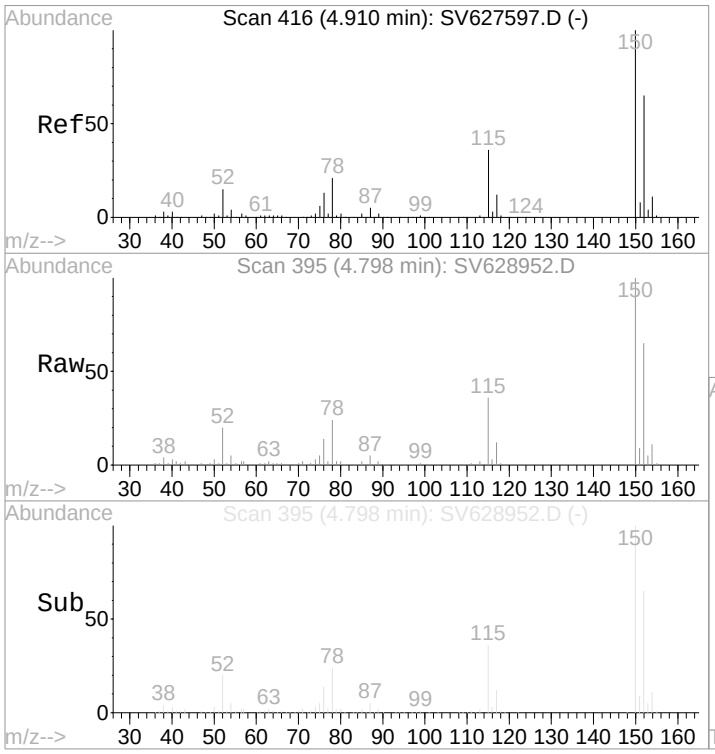
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628952.D Vial: 15
Acq On : 10 Feb 2020 10:32 pm Operator: OW
Sample : 20B0093-02 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:46 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

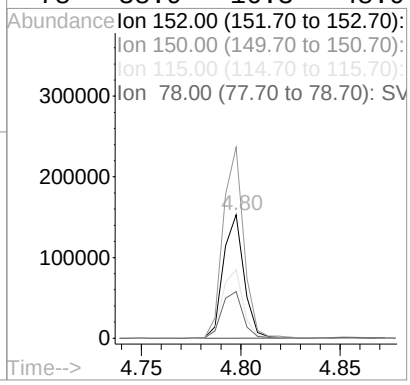


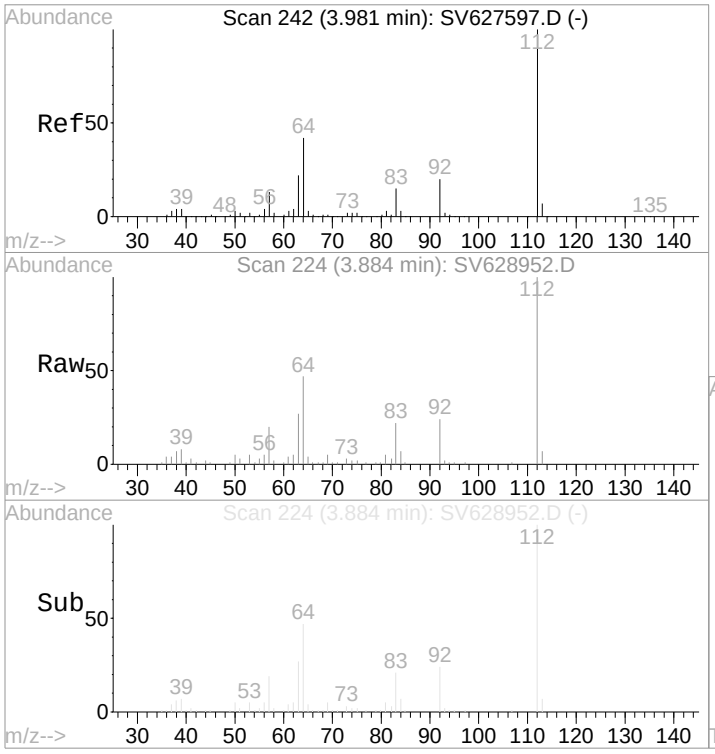


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 395
Delta R.T. -0.11 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:152 Resp: 1101697

Ion	Ratio	Lower	Upper
152	100		
150	153.7	84.8	254.4
115	56.1	27.5	82.4
78	38.9	16.3	48.9

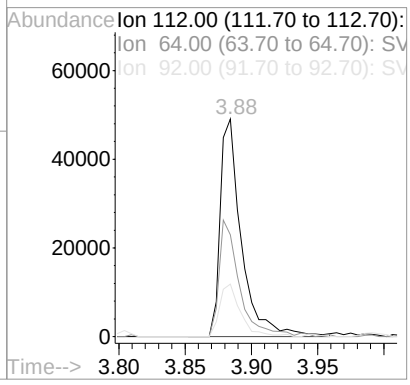


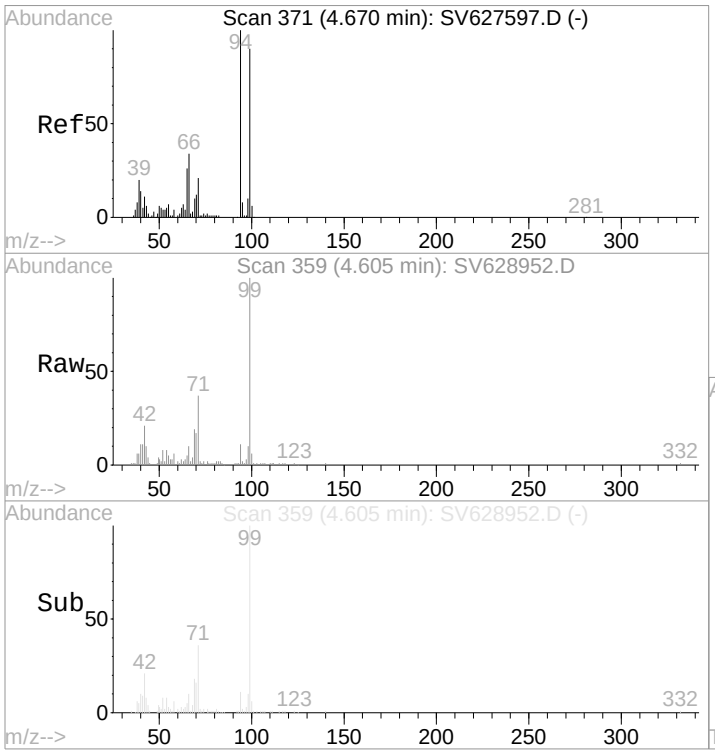


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.88 min Scan# 224
Delta R.T. -0.09 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:112 Resp: 545567

Ion	Ratio	Lower	Upper
112	100		
64	51.8	36.6	54.8
92	24.0	16.2	24.4

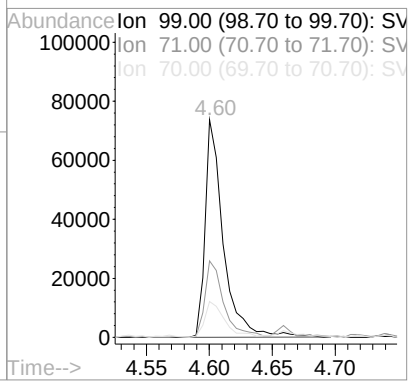


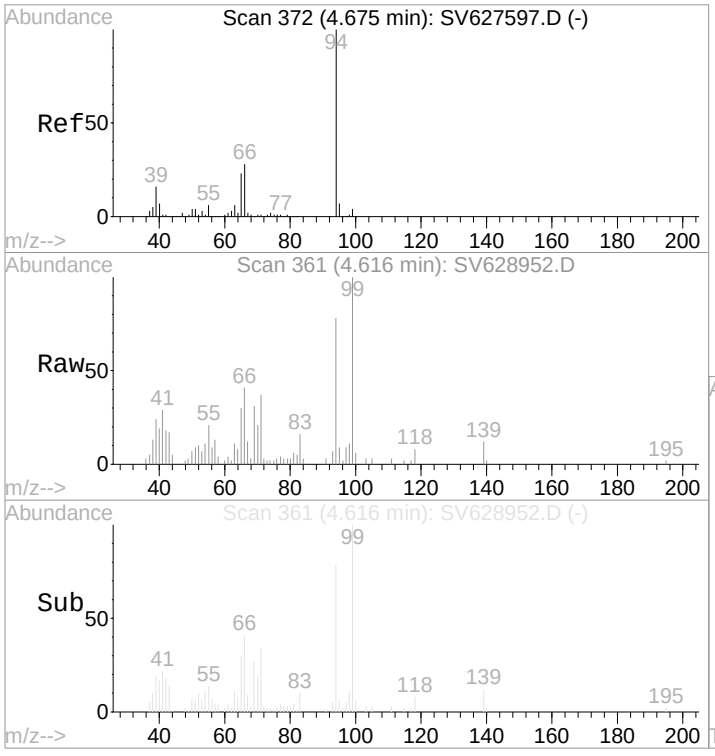


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.60 min Scan# 359
Delta R.T. -0.06 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion: 99 Resp: 744579

Ion	Ratio	Lower	Upper
99	100		
71	35.6	20.5	30.7#
70	17.8	10.3	15.5#

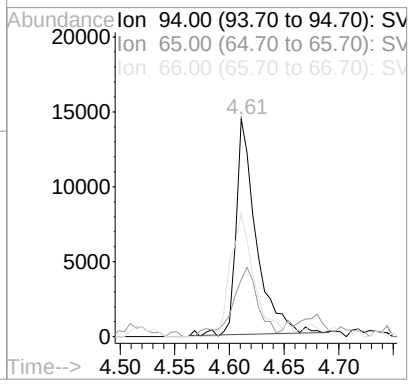


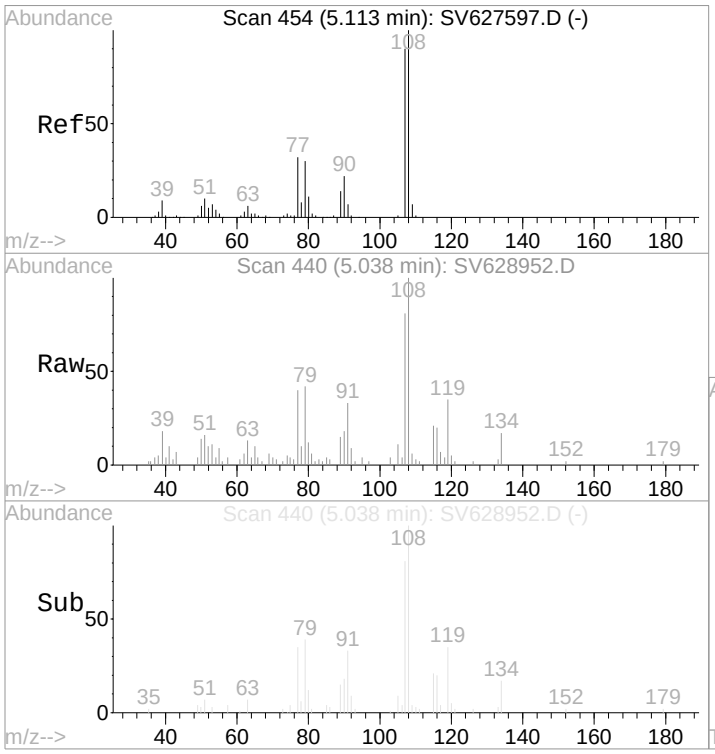


#8
Phenol
Concen: 3.34 ug/mL
RT: 4.61 min Scan# 361
Delta R.T. -0.06 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion: 94 Resp: 181853

Ion	Ratio	Lower	Upper
94	100		
65	36.8	19.1	28.7#
66	69.3	25.3	37.9#

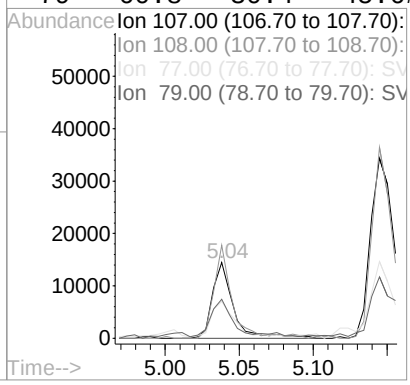


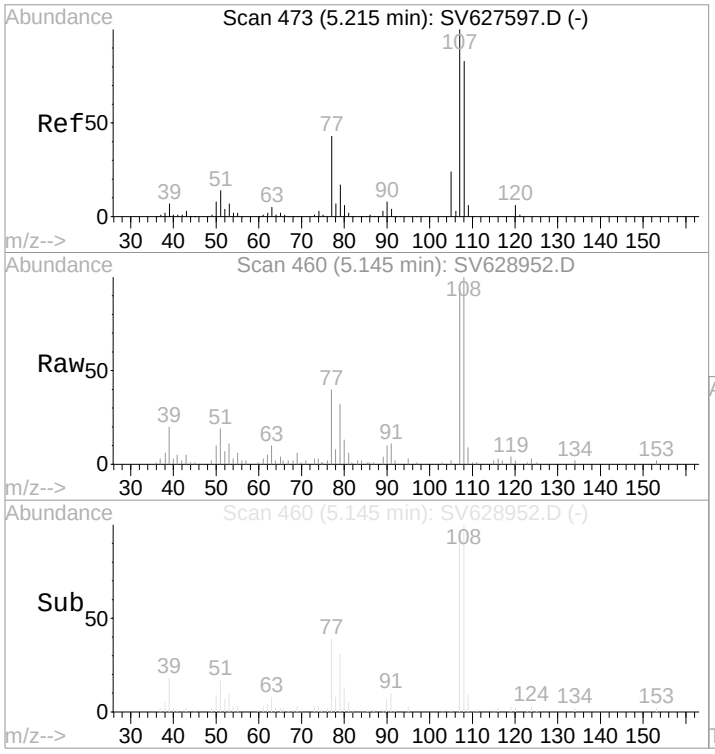


#15
2-Methylphenol
Concen: 3.61 ug/mL
RT: 5.04 min Scan# 440
Delta R.T. -0.07 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:107 Resp: 140976

Ion	Ratio	Lower	Upper
107	100		
108	101.8	91.3	136.9
77	54.1	31.2	46.8#
79	60.8	30.4	45.6#

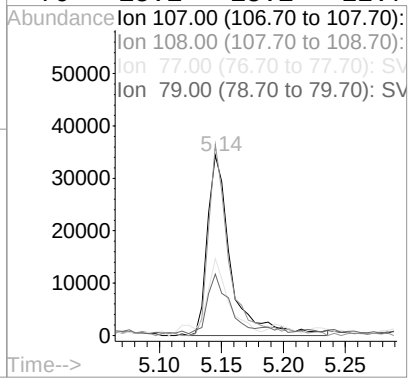


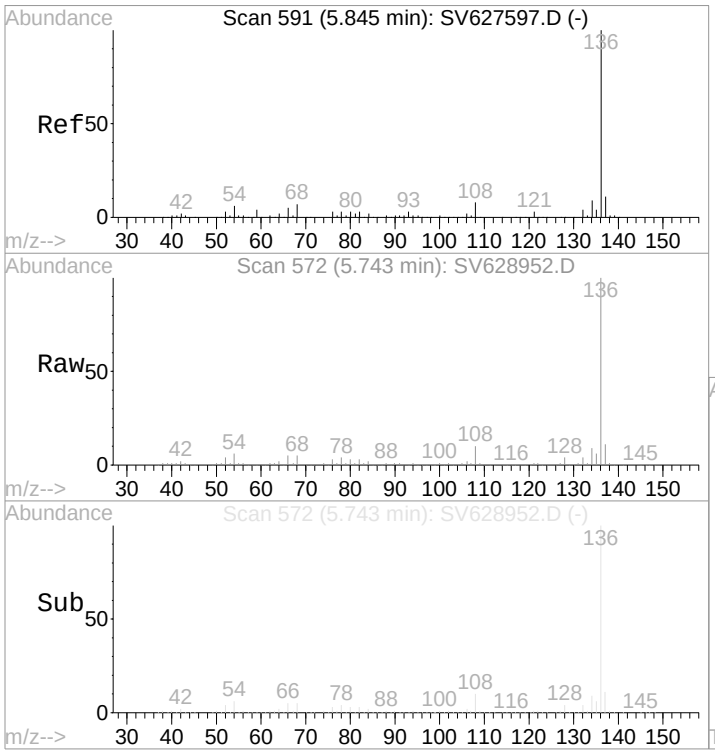


#19
4-Methylphenol
Concen: 7.80 ug/mL m
RT: 5.14 min Scan# 460
Delta R.T. -0.07 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:107 Resp: 451003

Ion	Ratio	Lower	Upper
107	100		
108	34.1	66.8	100.2#
77	17.2	76.5	114.7#
79	15.1	15.1	22.7

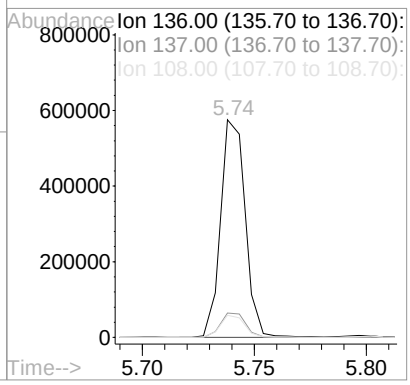


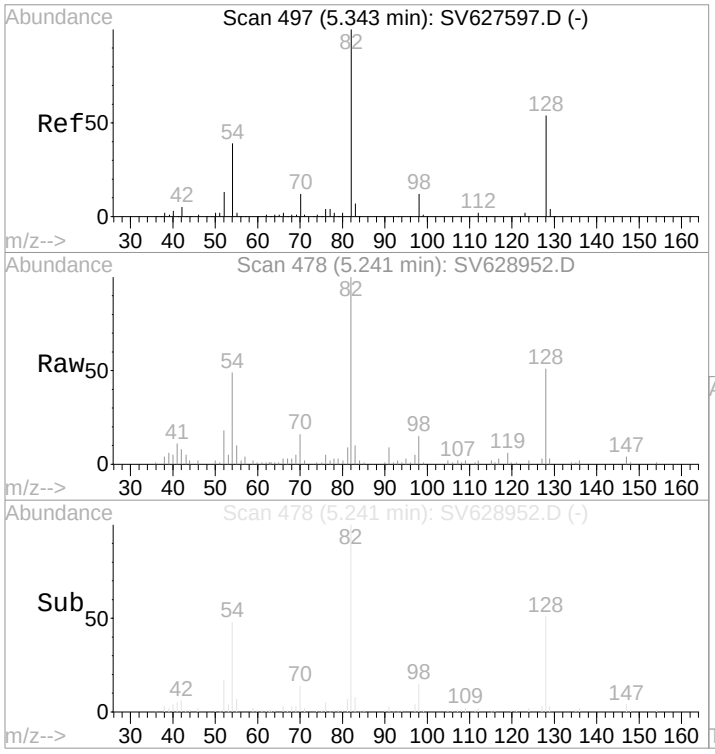


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.74 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:136 Resp: 4394413

Ion	Ratio	Lower	Upper
136	100		
137	11.8	5.7	17.0
108	10.3	4.2	12.4

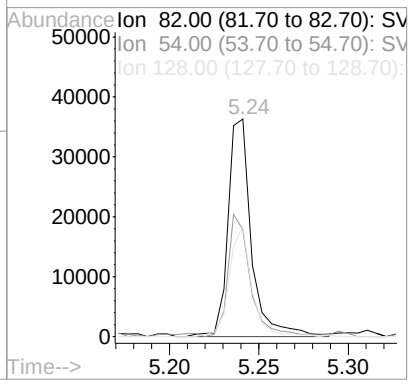


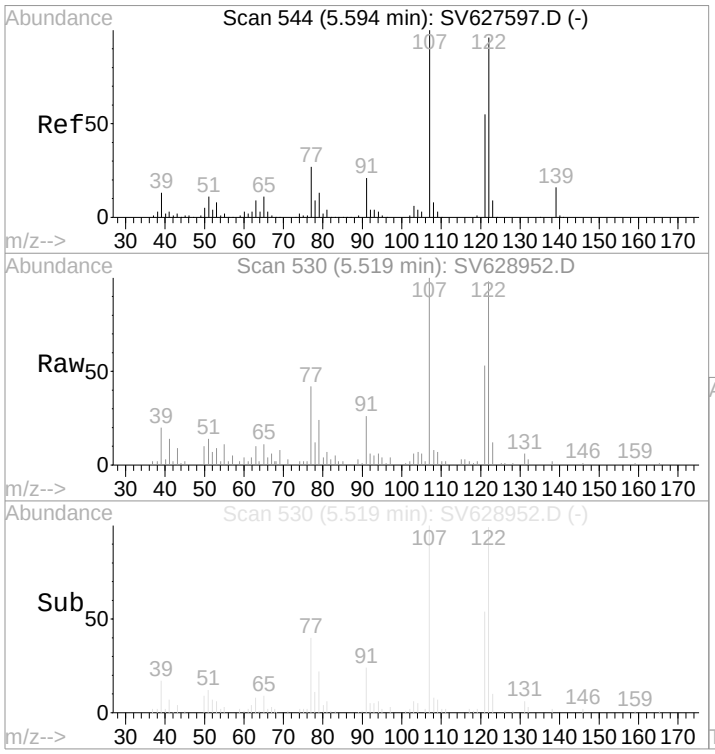


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.24 min Scan# 478
Delta R.T. -0.10 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion: 82 Resp: 333022

Ion	Ratio	Lower	Upper
82	100		
54	54.2	32.4	48.6#
128	48.7	41.3	61.9

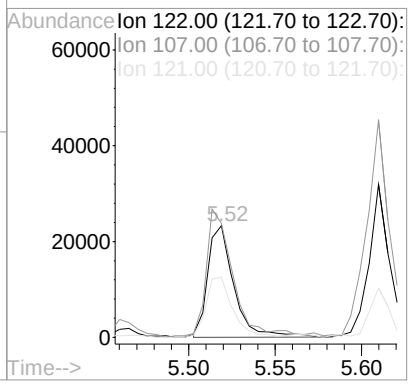


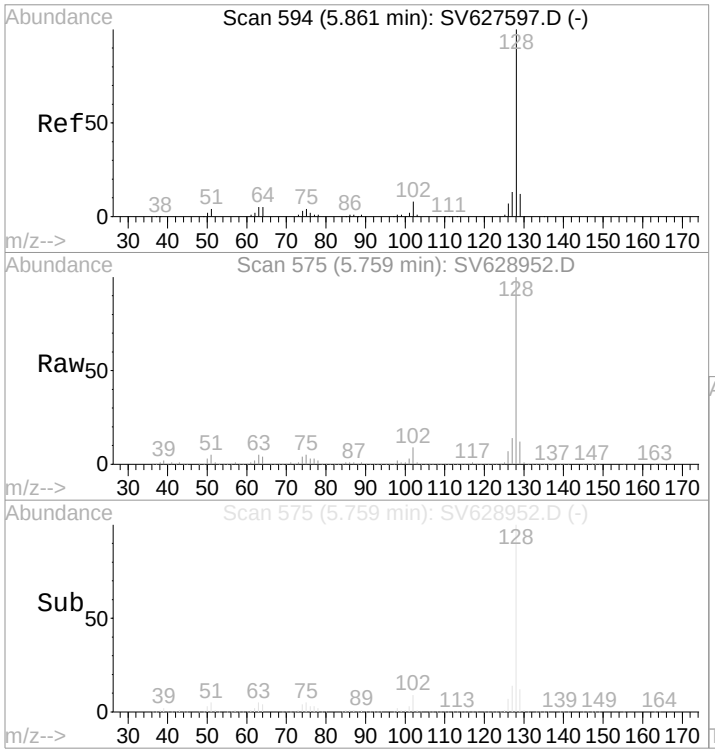


#26
2,4-Dimethylphenol
Concen: 6.16 ug/mL
RT: 5.52 min Scan# 530
Delta R.T. -0.08 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:122 Resp: 244925

Ion	Ratio	Lower	Upper
122	100		
107	118.1	80.7	121.1
121	54.7	44.6	66.8

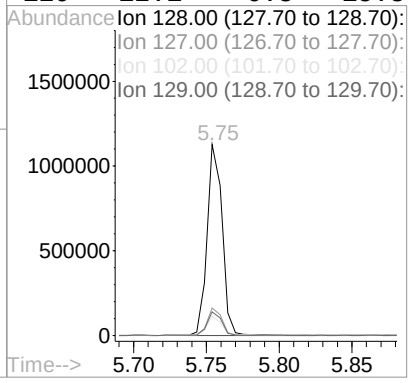


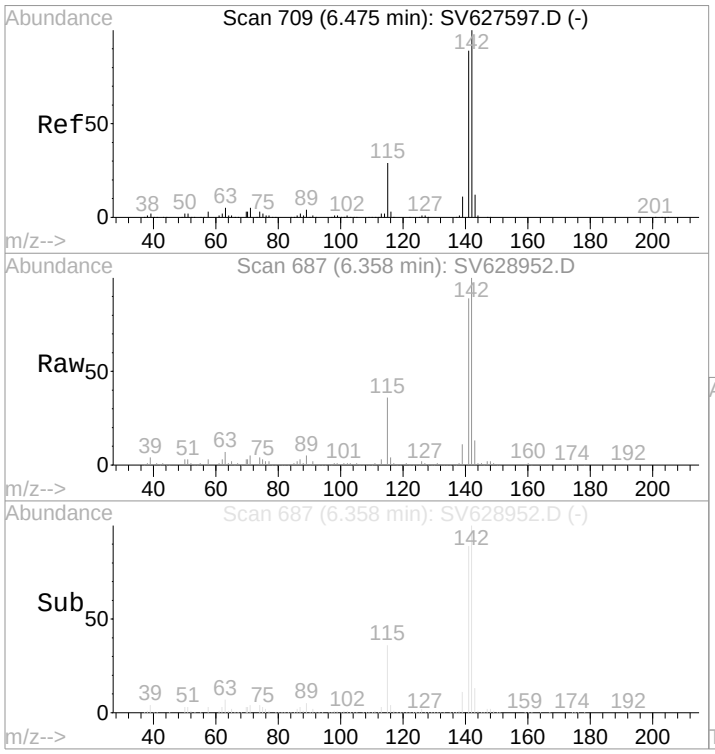


#32
Naphthalene
Concen: 71.33 ug/mL
RT: 5.76 min Scan# 575
Delta R.T. -0.10 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:128 Resp: 8075506

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.4	15.6
102	10.6	4.1	12.3
129	12.1	6.8	15.8

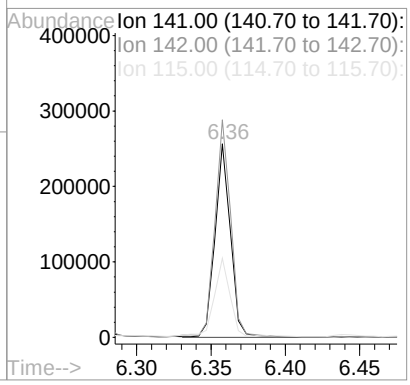


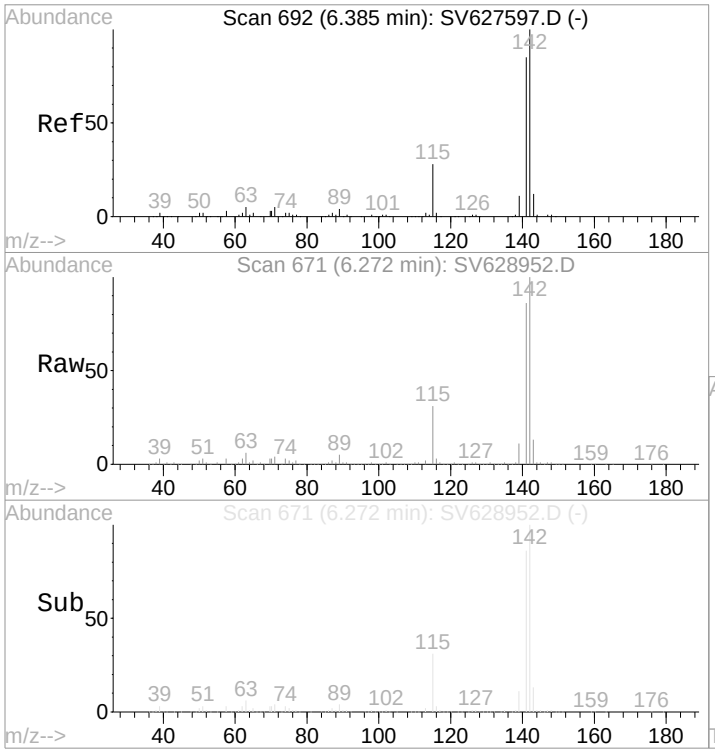


#37
1-Methylnaphthalene
Concen: 23.30 ug/mL m
RT: 6.36 min Scan# 687
Delta R.T. -0.12 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:141 Resp: 1862786

Ion	Ratio	Lower	Upper
141	100		
142	190.5	90.6	135.8#
115	64.3	28.2	42.4#

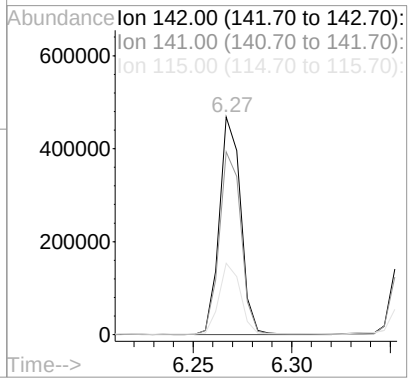


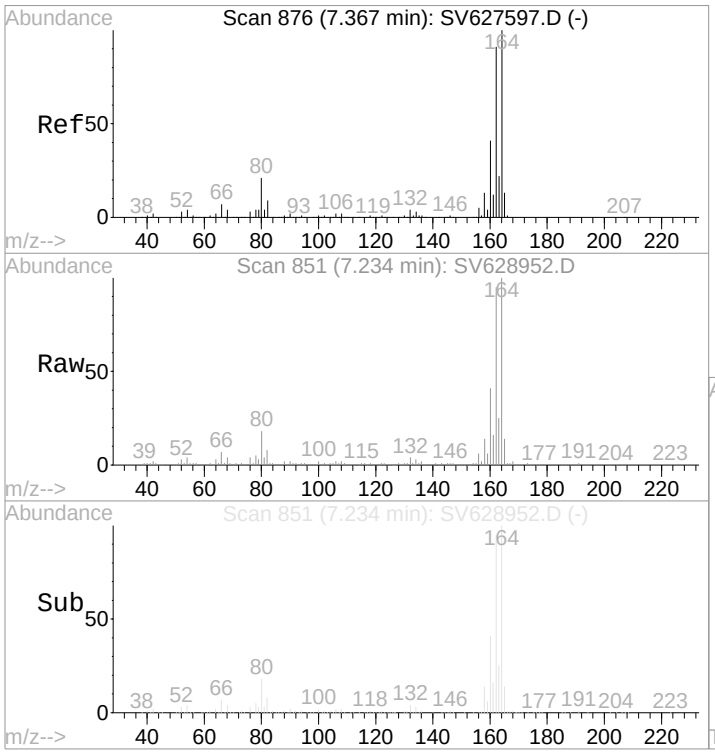


#38
2-Methylnaphthalene
Concen: 44.37 ug/mL
RT: 6.27 min Scan# 671
Delta R.T. -0.11 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:142 Resp: 3545741

Ion	Ratio	Lower	Upper
142	100		
141	85.9	67.4	101.2
115	33.1	23.4	35.0

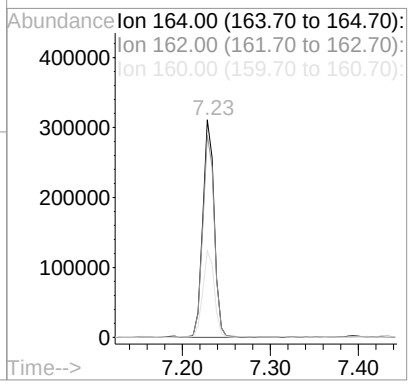


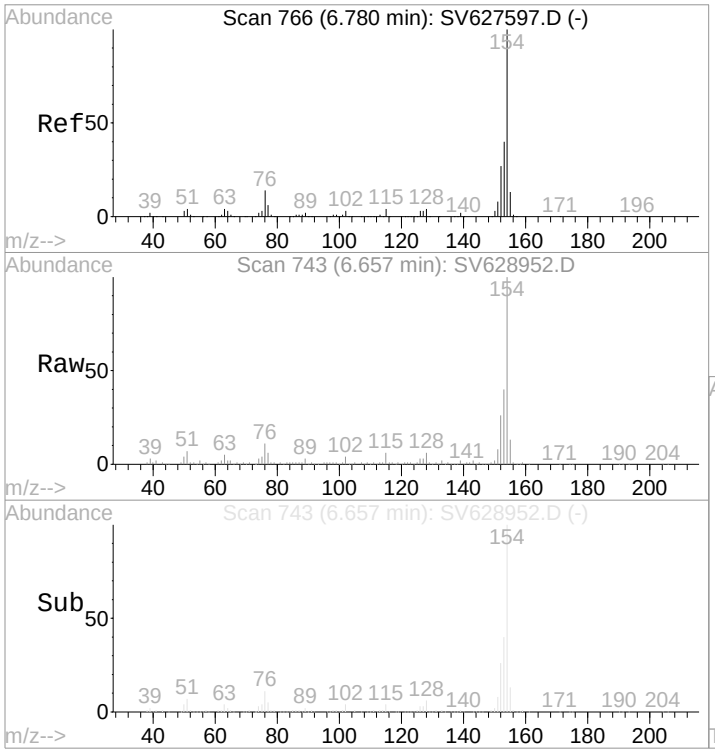


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.23 min Scan# 851
Delta R.T. -0.14 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:164 Resp: 2825644

Ion	Ratio	Lower	Upper
164	100		
162	94.3	46.5	139.3
160	40.1	20.9	62.7

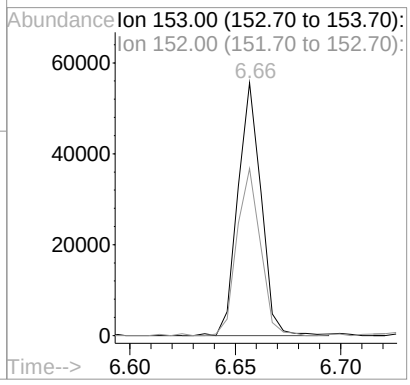


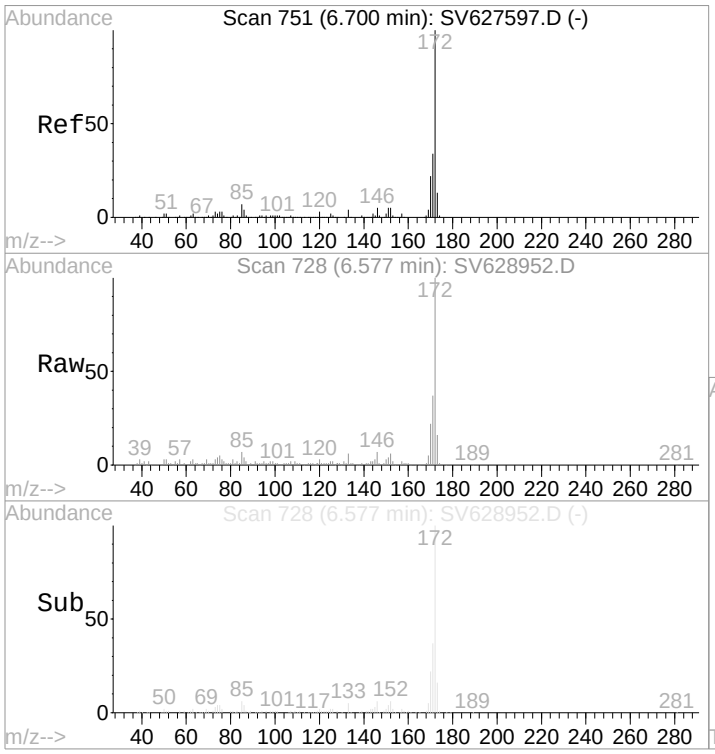


#42
Biphenyl
Concen: 9.16 ug/mL
RT: 6.66 min Scan# 743
Delta R.T. -0.12 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:153 Resp: 425610

Ion	Ratio	Lower	Upper
153	100		
152	67.0	54.2	81.4

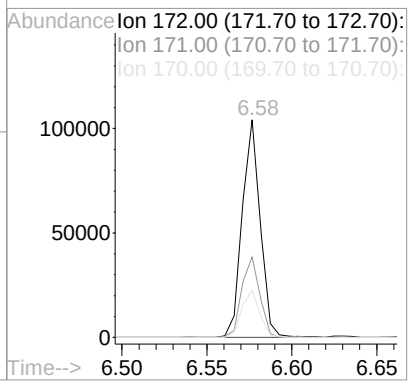


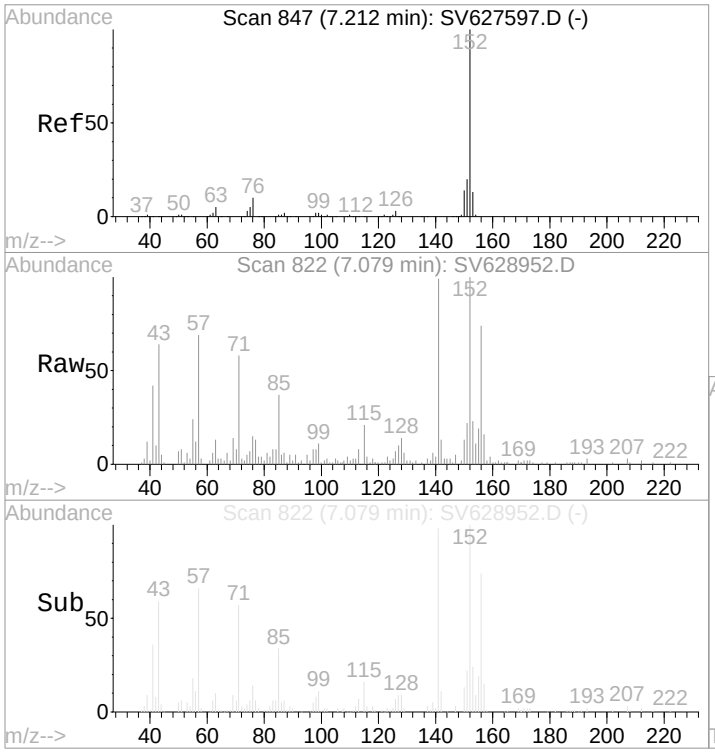


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 728
Delta R.T. -0.12 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:172 Resp: 766427

Ion	Ratio	Lower	Upper
172	100		
171	37.0	27.2	40.8
170	21.8	18.1	27.1

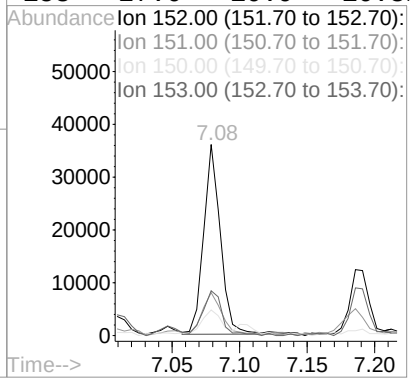


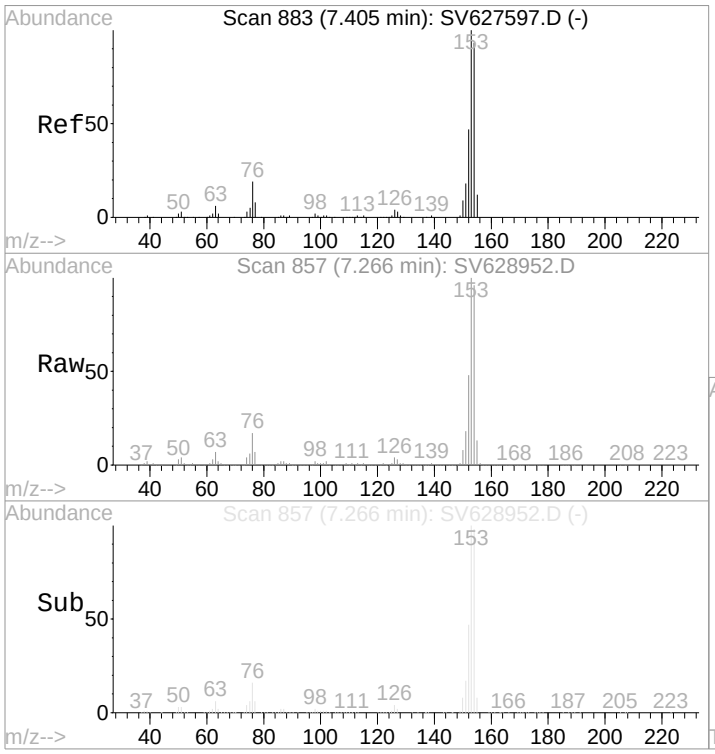


#50
Acenaphthylene
Concen: 2.14 ug/mL
RT: 7.08 min Scan# 822
Delta R.T. -0.13 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:152 Resp: 315791

Ion	Ratio	Lower	Upper
152	100		
151	25.5	15.7	23.5#
150	18.0	11.2	16.8#
153	27.0	10.9	16.3#

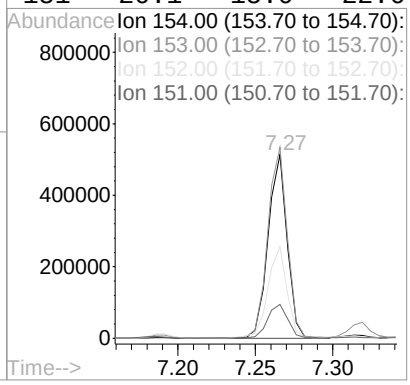


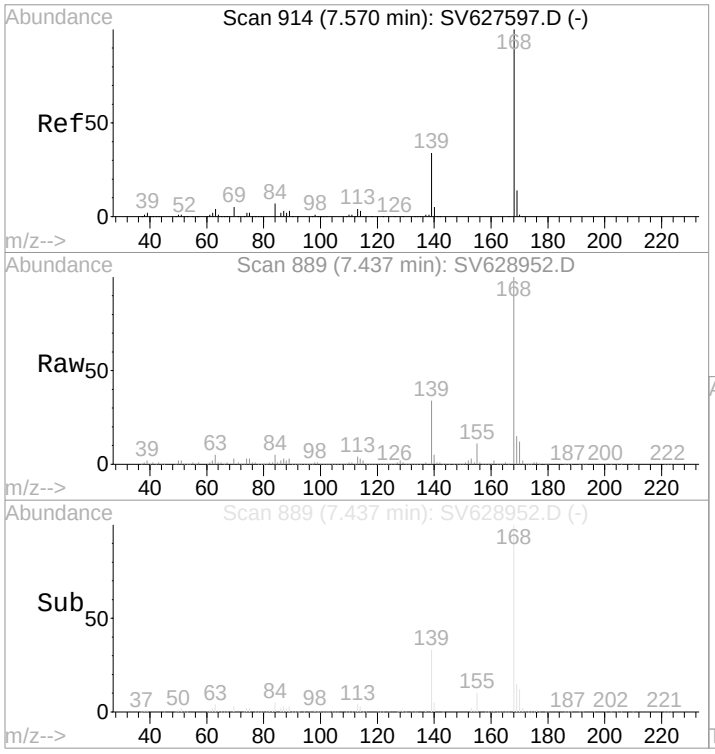


#52
Acenaphthene
Concen: 53.28 ug/mL
RT: 7.27 min Scan# 857
Delta R.T. -0.14 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:154 Resp: 4406122

Ion	Ratio	Lower	Upper
154	100		
153	106.7	86.2	129.4
152	50.1	40.4	60.6
151	20.1	15.0	22.6

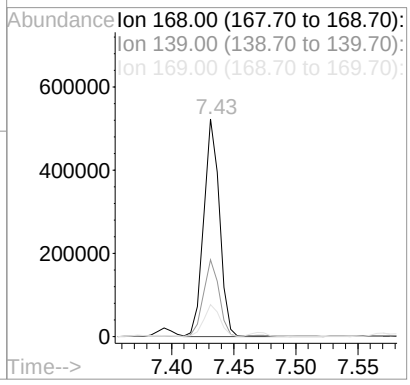


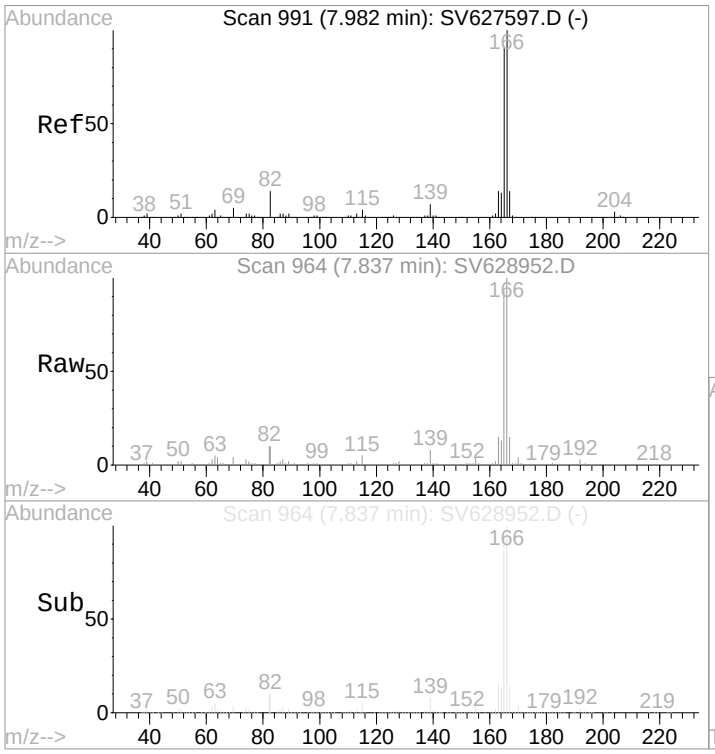


#54
Dibenzofuran
Concen: 36.27 ug/mL
RT: 7.43 min Scan# 889
Delta R.T. -0.14 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:168 Resp: 4646557

Ion	Ratio	Lower	Upper
168	100		
139	35.0	26.6	40.0
169	15.2	11.0	16.4

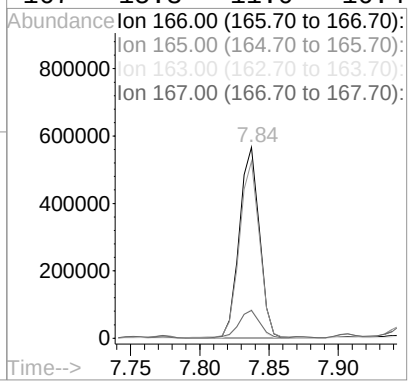


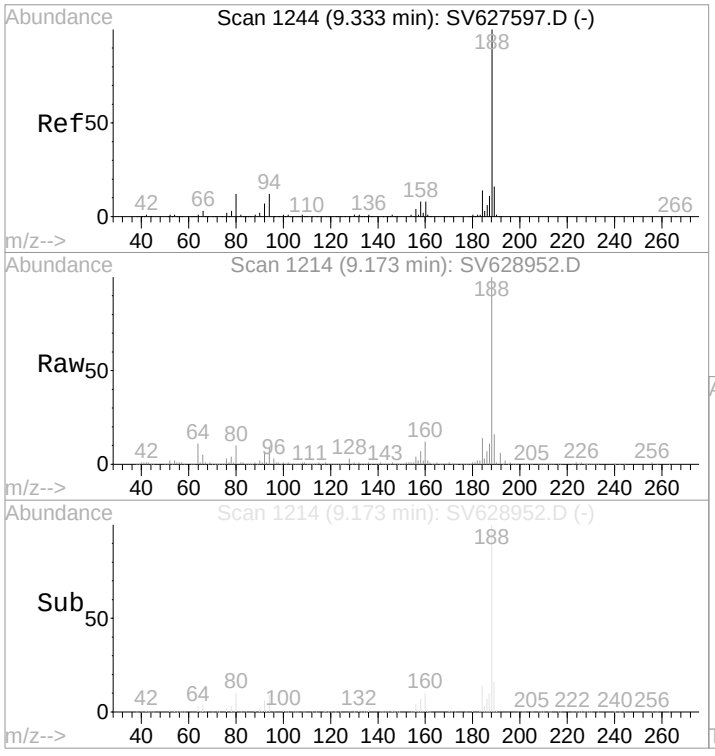


#59
Fluorene
Concen: 55.70 ug/mL
RT: 7.84 min Scan# 964
Delta R.T. -0.14 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:166 Resp: 5734072

Ion	Ratio	Lower	Upper
166	100		
165	92.6	72.6	109.0
163	14.9	11.5	17.3
167	15.3	11.0	16.4

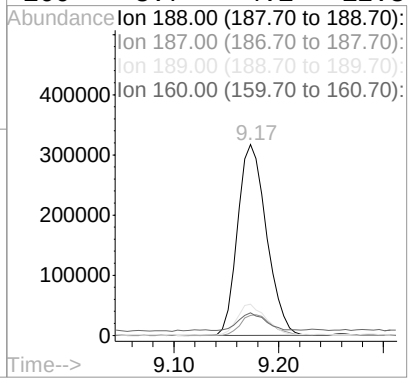


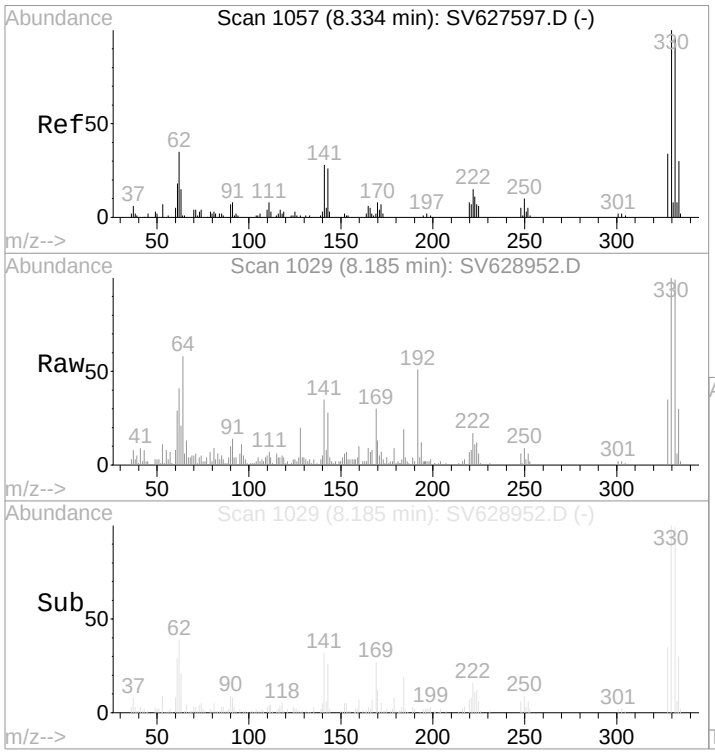


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.18 min Scan# 1214
Delta R.T. -0.16 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:188 Resp: 6082556

Ion	Ratio	Lower	Upper
188	100		
187	11.2	8.4	12.6
189	16.2	8.0	23.8
160	8.7	4.1	12.3

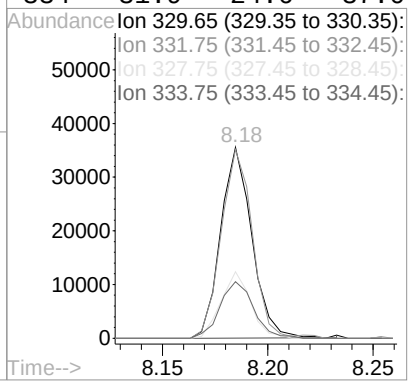


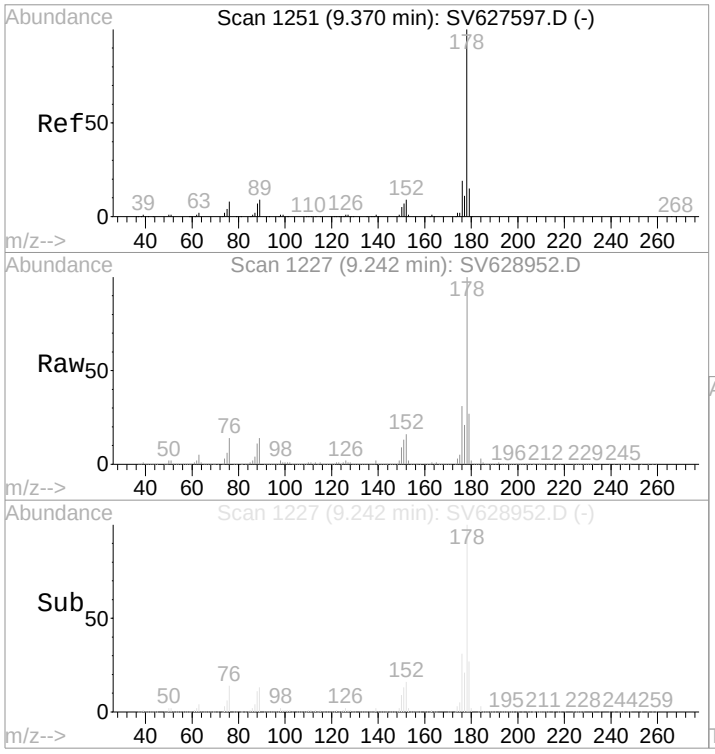


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.19 min Scan# 1029
Delta R.T. -0.14 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:330 Resp: 364611

Ion	Ratio	Lower	Upper
330	100		
332	99.6	74.2	111.2
328	33.3	28.5	42.7
334	31.9	24.6	37.0

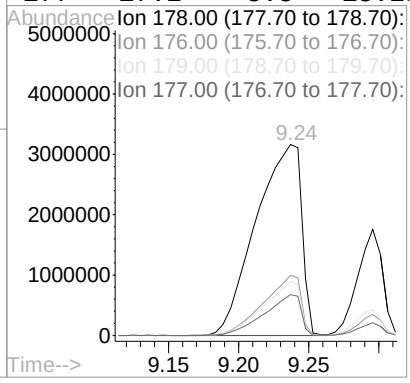


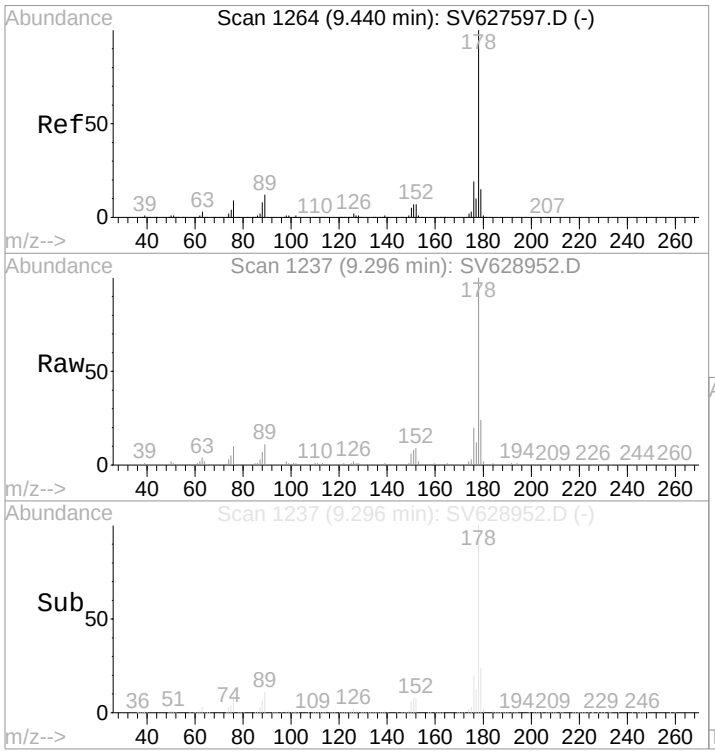


#73
Phenanthrene
Concen: 439.70 ug/mL
RT: 9.24 min Scan# 1227
Delta R.T. -0.13 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:178 Resp:71459273

Ion	Ratio	Lower	Upper
178	100		
176	25.8	15.2	22.8#
179	23.2	12.5	18.7#
177	17.2	8.8	13.2#

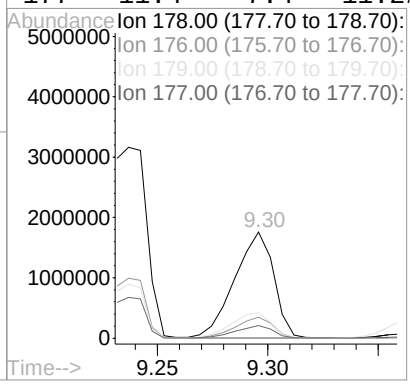


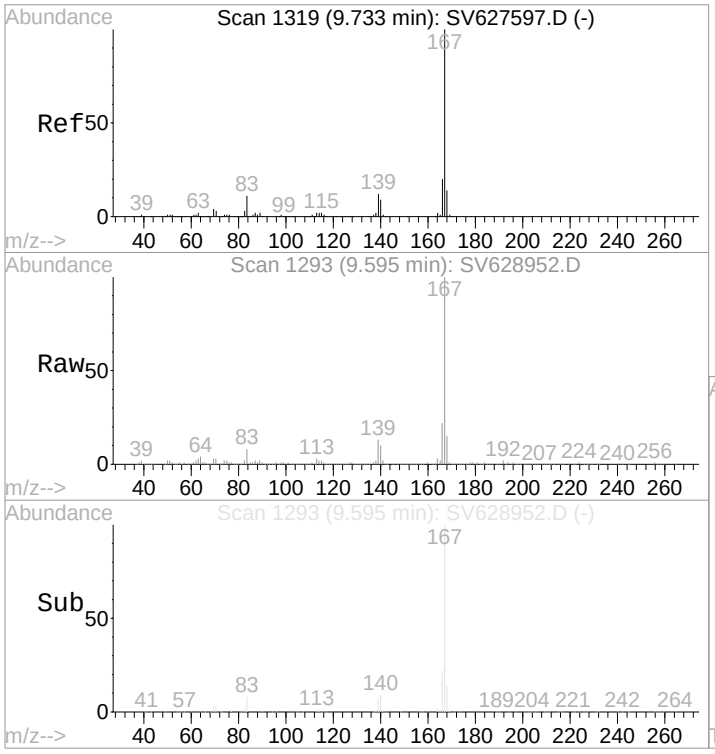


#74
Anthracene
Concen: 126.49 ug/mL
RT: 9.30 min Scan# 1237
Delta R.T. -0.14 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:178 Resp:21764528

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.5	21.7
179	24.6	12.5	18.7#
177	11.4	7.4	11.2#

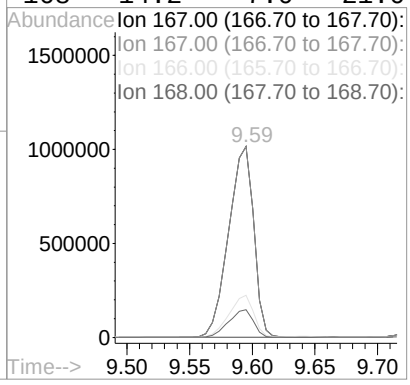


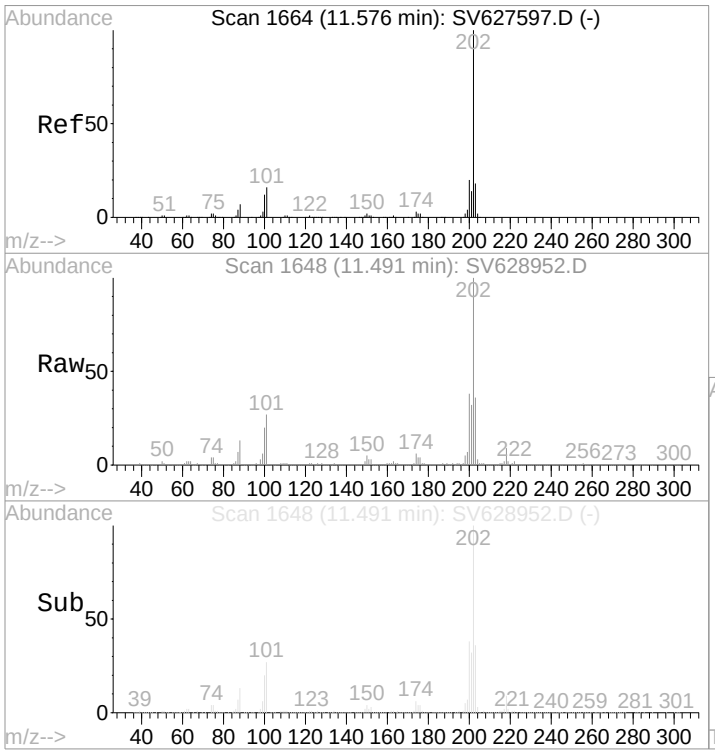


#75
Carbazole
Concen: 78.93 ug/mL
RT: 9.59 min Scan# 1293
Delta R.T. -0.14 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:167 Resp:14106108

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	0.3	0.0	0.0#
168	14.2	7.0	21.0

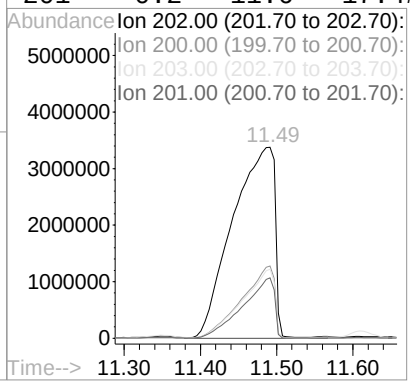


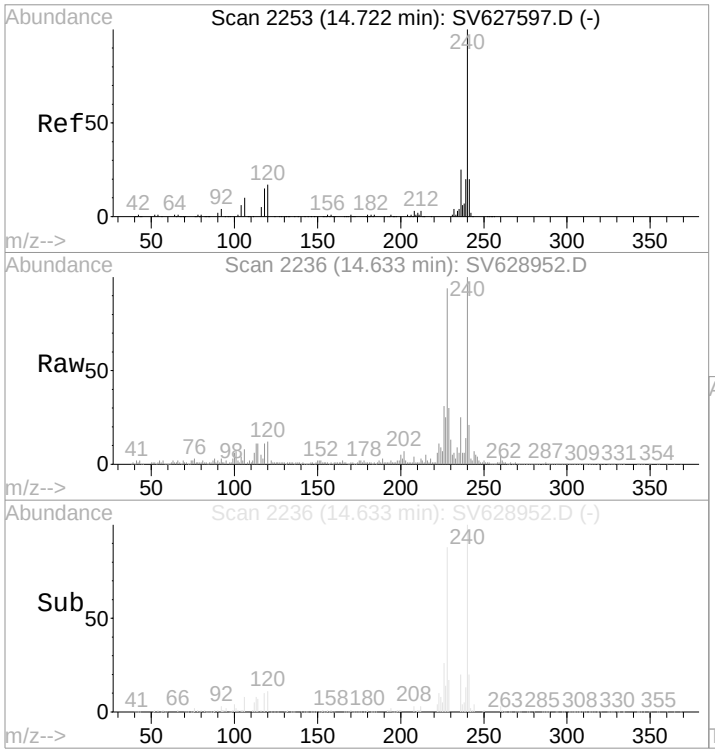


#78
Fluoranthene
Concen: 679.18 ug/mL m
RT: 11.49 min Scan# 1648
Delta R.T. -0.09 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:202 Resp:130489041

Ion	Ratio	Lower	Upper
202	100		
200	0.2	15.8	23.6#
203	1.0	14.1	21.1#
201	0.2	11.6	17.4#

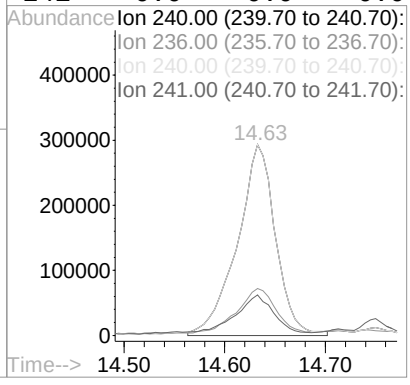


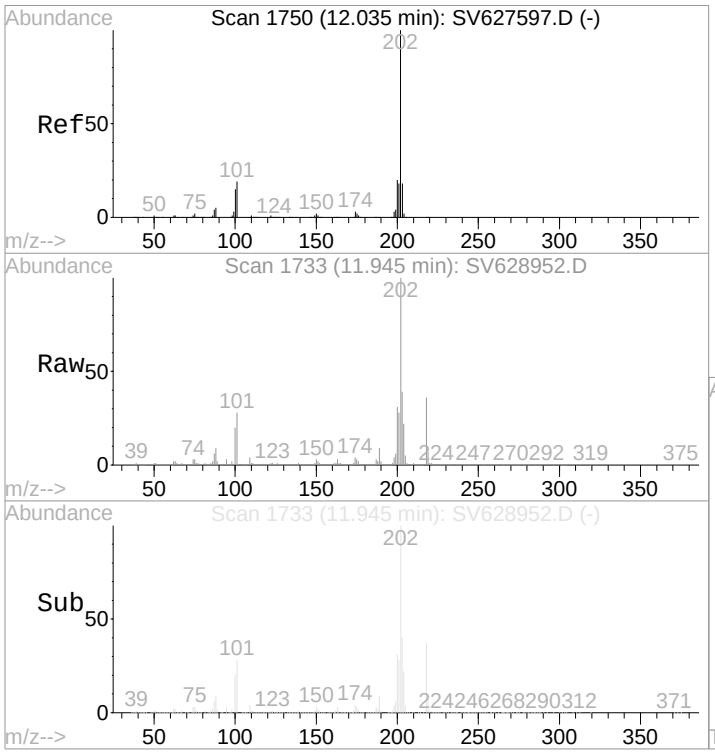


#80
Chrysene-d12
Concen: 40.00 ug/mL m
RT: 14.63 min Scan# 2236
Delta R.T. -0.09 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:240 Resp: 7728196

Ion	Ratio	Lower	Upper
240	100		
236	8.9	12.2	36.4#
240	0.5	50.0	150.0#
241	0.0	0.0	0.0

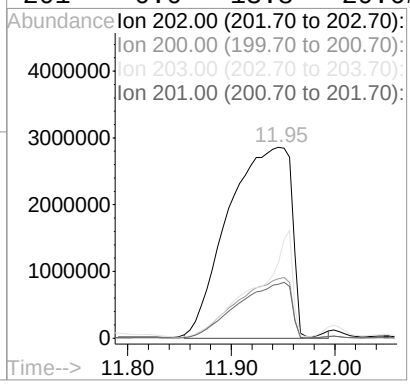


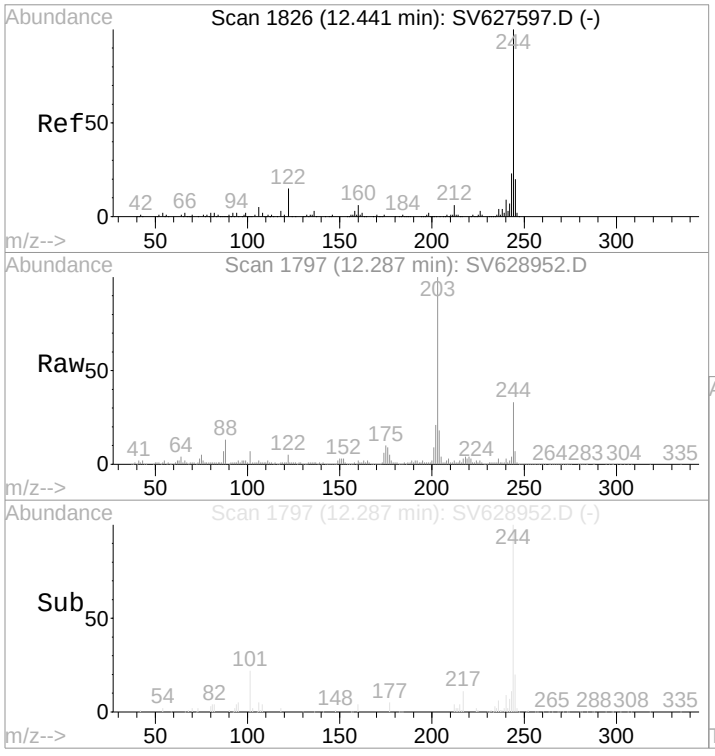


#81
Pyrene
Concen: 425.51 ug/mL m
RT: 11.95 min Scan# 1733
Delta R.T. -0.09 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:202 Resp:121616554

Ion	Ratio	Lower	Upper
202	100		
200	0.2	16.2	24.2#
203	2.5	14.6	22.0#
201	0.0	13.8	20.6#

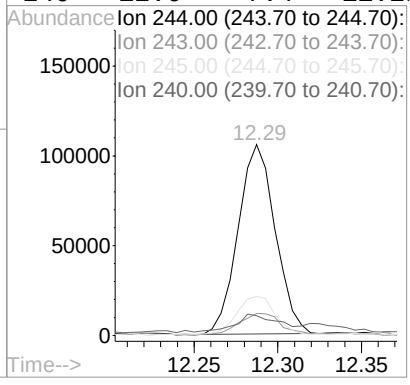


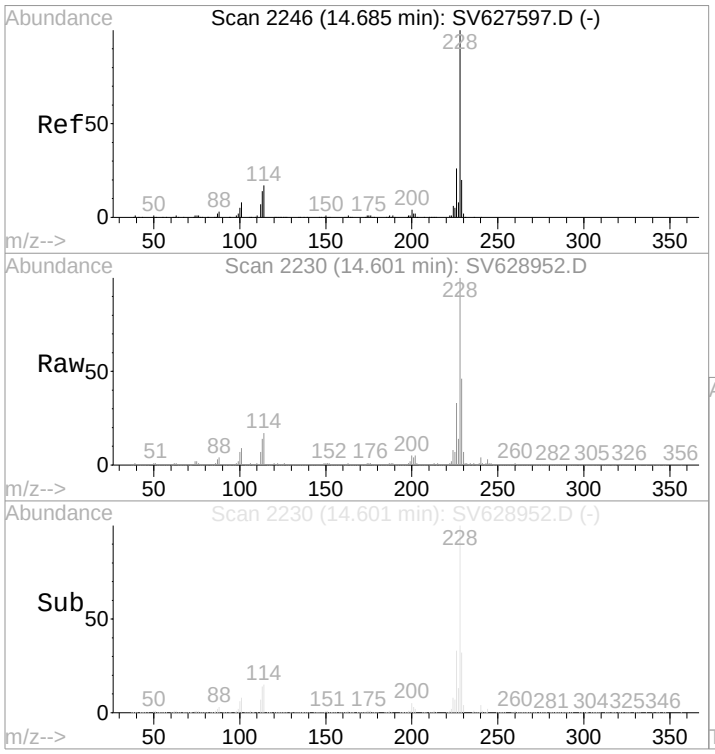


#82
Terphenyl-d14
Concen: 425.51 ug/mL
RT: 12.29 min Scan# 1797
Delta R.T. -0.15 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:244 Resp: 1631663

Ion	Ratio	Lower	Upper
244	100		
243	11.6	18.4	27.6#
245	21.5	15.4	23.0
240	12.0	7.4	11.2#

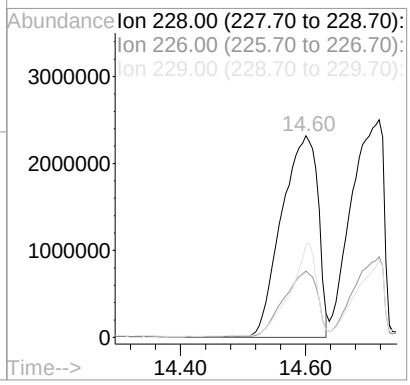


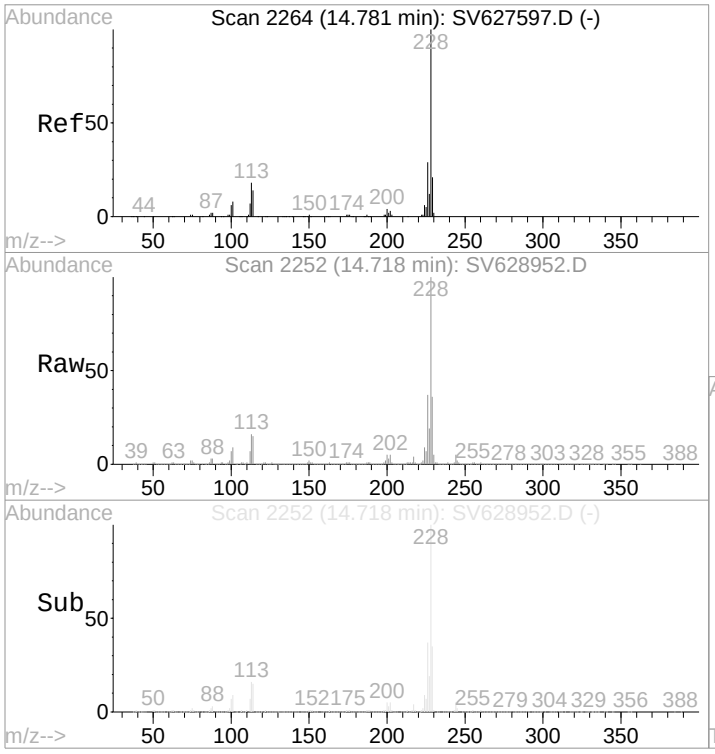


#85
Benz (a) anthracene
Concen: 363.76 ug/mL m
RT: 14.60 min Scan# 2230
Delta R.T. -0.08 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:228 Resp:94311046

Ion	Ratio	Lower	Upper
228	100		
226	0.0	21.3	31.9#
229	8.8	16.4	24.6#

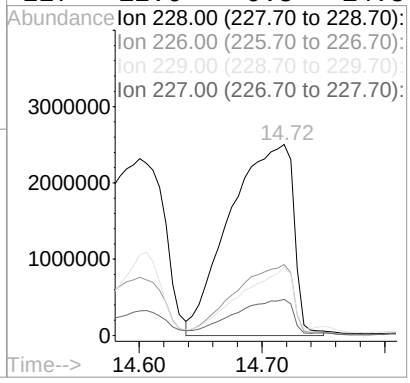


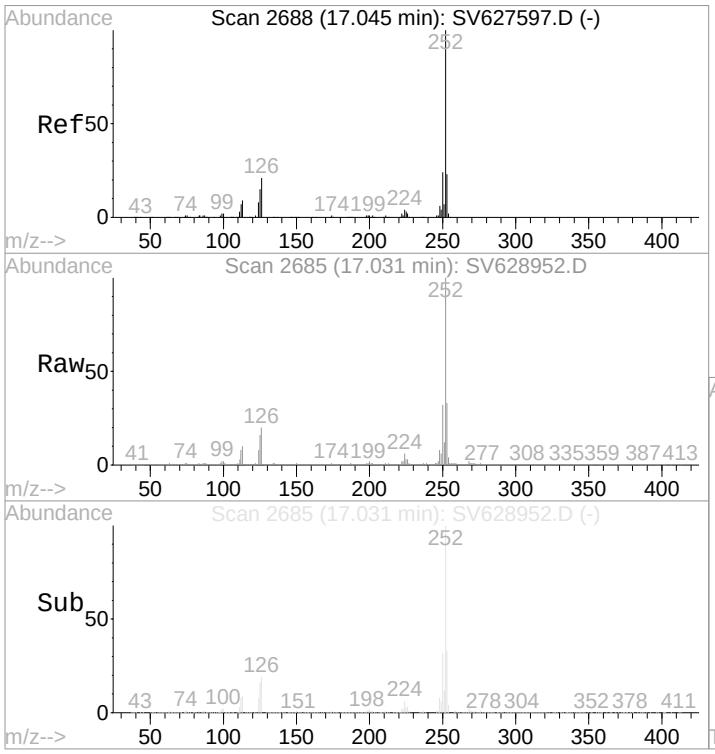


#87
Chrysene
Concen: 361.62 ug/mL m
RT: 14.72 min Scan# 2252
Delta R.T. -0.06 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:228 Resp:90318077

Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.6	35.4
229	33.6	15.5	23.3#
227	12.6	9.8	14.8

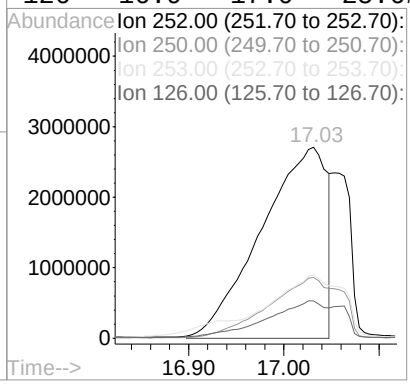


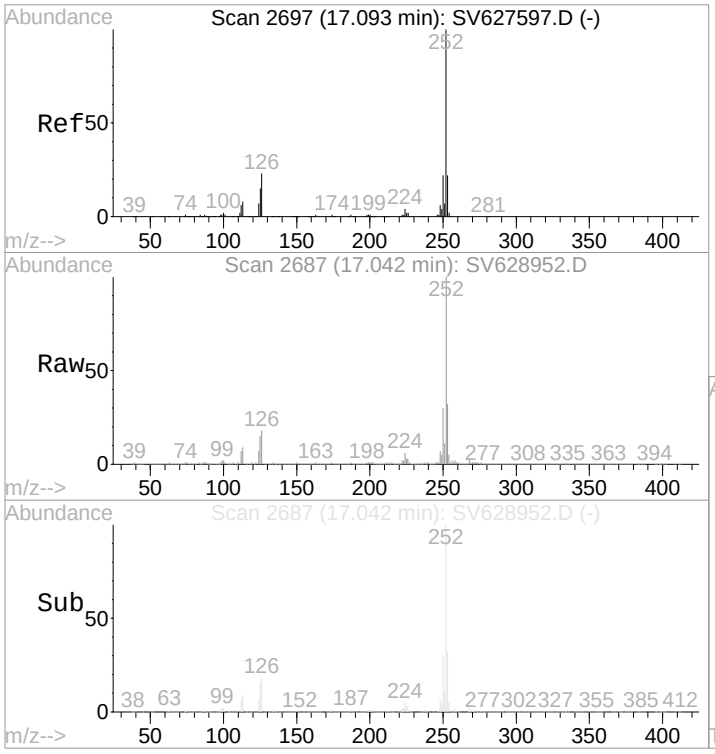


#89
Benzo(b)fluoranthene
Concen: 519.77 ug/mL m
RT: 17.03 min Scan# 2685
Delta R.T. -0.01 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:252 Resp:122287026

Ion	Ratio	Lower	Upper
252	100		
250	35.3	18.2	27.4#
253	37.5	17.9	26.9#
126	16.9	17.0	25.6#

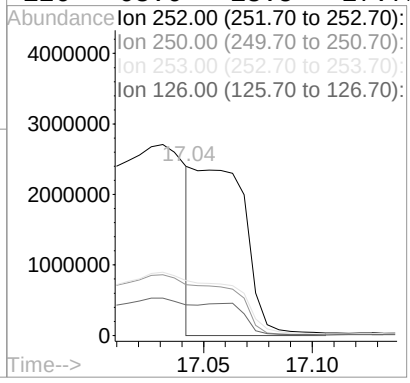


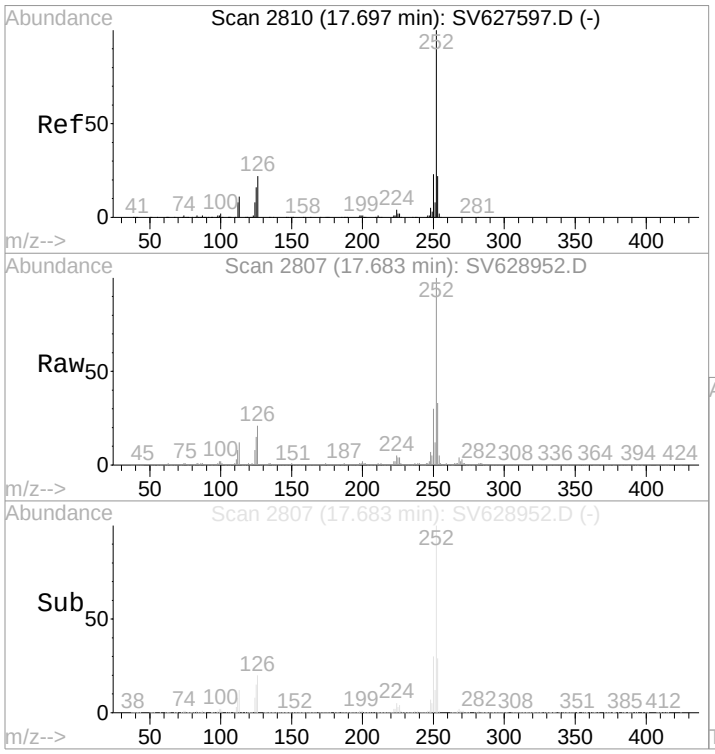


#90
Benzo(k)fluoranthene
Concen: 156.18 ug/mL m
RT: 17.04 min Scan# 2687
Delta R.T. -0.04 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:252 Resp:43776534

Ion	Ratio	Lower	Upper
252	100		
250	102.0	17.2	25.8#
253	117.5	18.1	27.1#
126	63.6	18.5	27.7#

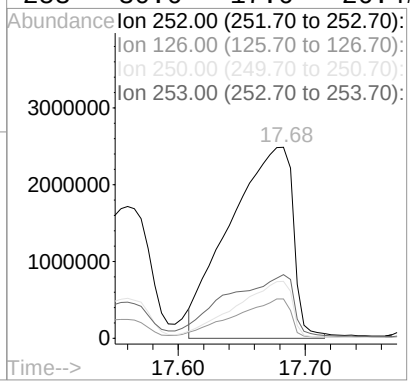


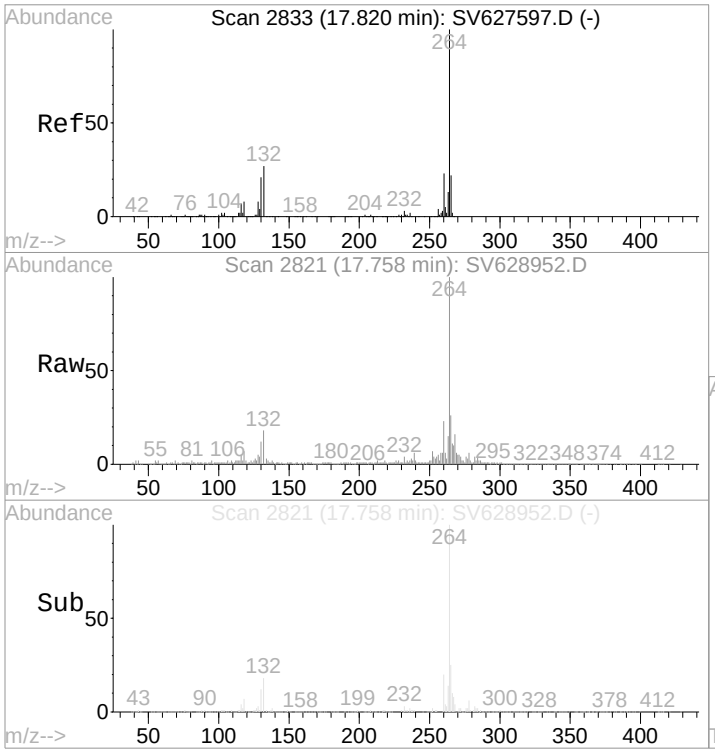


#91
Benzo(a)pyrene
Concen: 372.39 ug/mL m
RT: 17.68 min Scan# 2807
Delta R.T. -0.01 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:252 Resp:87195410

Ion	Ratio	Lower	Upper
252	100		
126	7.0	18.4	27.6#
250	15.8	17.8	26.8#
253	30.6	17.6	26.4#

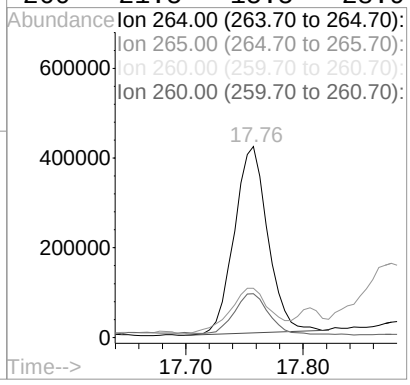


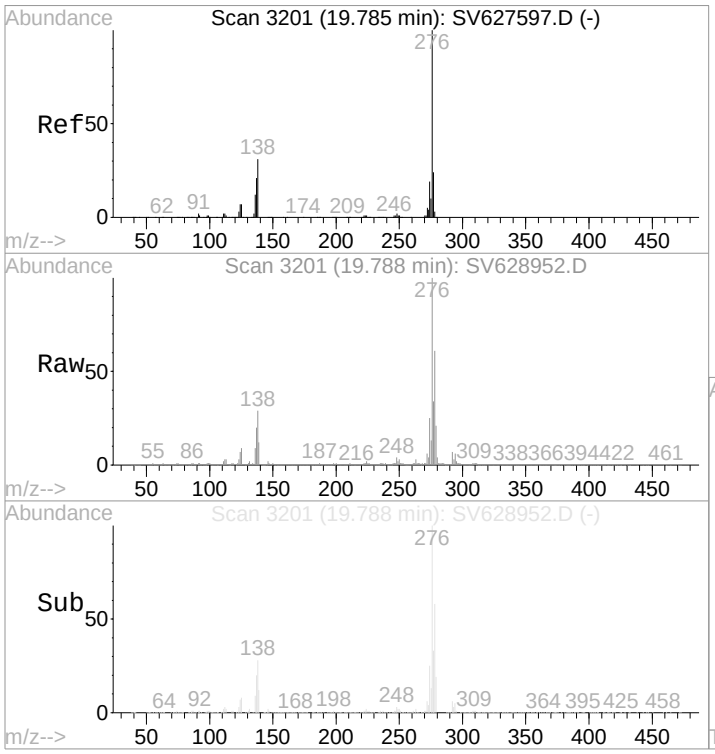


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.76 min Scan# 2821
Delta R.T. -0.06 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:264 Resp: 8223852

Ion	Ratio	Lower	Upper
264	100		
265	3.9	0.0	0.0#
260	21.5	17.8	26.6
260	21.5	15.5	28.9

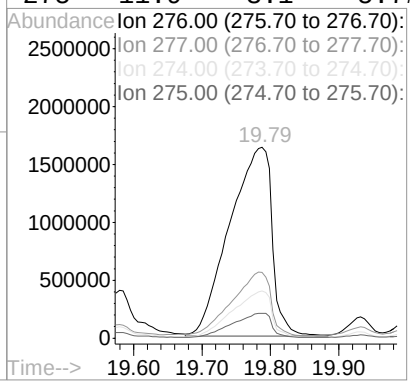


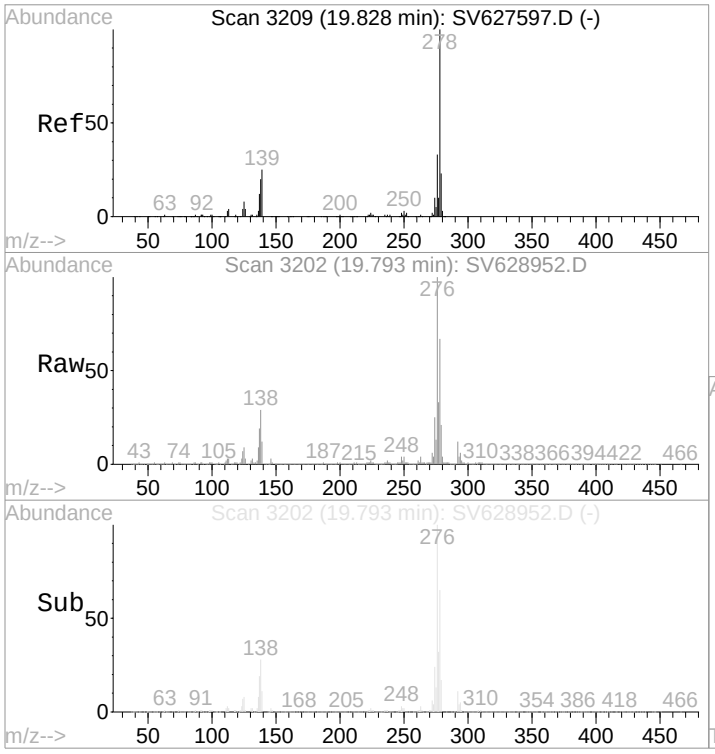


#93
Indeno(1,2,3-cd)pyrene
Concen: 279.30 ug/mL
RT: 19.79 min Scan# 3201
Delta R.T. 0.01 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:276 Resp:70394758

Ion	Ratio	Lower	Upper
276	100		
277	31.0	12.9	19.3#
274	23.0	10.8	16.2#
275	11.9	3.1	5.7#

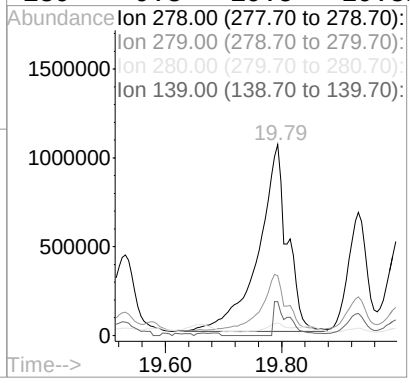


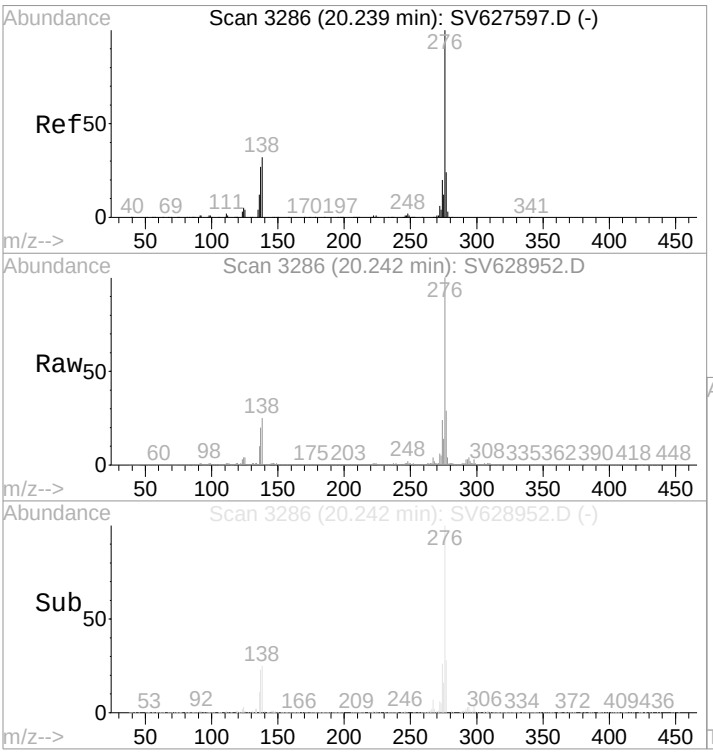


#94
Dibenz(a,h)anthracene
Concen: 201.35 ug/mL
RT: 19.79 min Scan# 3202
Delta R.T. -0.02 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:278 Resp:36302438

Ion	Ratio	Lower	Upper
278	100		
279	27.1	18.5	27.7
280	3.3	0.0	5.0
139	9.3	19.5	29.3#

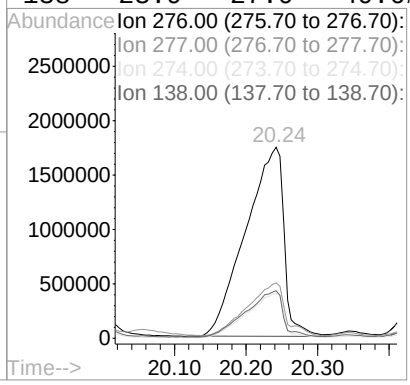




#95
Benzo(g,h,i)perylene
Concen: 270.97 ug/mL
RT: 20.24 min Scan# 3286
Delta R.T. 0.02 min
Lab File: SV628952.D
Acq: 10 Feb 2020 10:32 pm

Tgt Ion:276 Resp:64502261

Ion	Ratio	Lower	Upper
276	100		
277	28.6	19.1	28.7
274	22.8	0.0	42.2
138	23.9	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02RE1 File ID: SV628965.D

Sampled: 02/04/20 10:10 Prepared: 02/10/20 07:21 Analyzed: 02/11/20 10:38

Solids: 76.97 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BB00363 Sequence: Y0B1127 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
91-57-6	2-Methylnaphthalene	10	4410	D
83-32-9	Acenaphthene	10	5030	D
120-12-7	Anthracene	10	13200	D
86-74-8	Carbazole	10	7910	D
53-70-3	Dibenzo(a,h)anthracene	10	12800	D
86-73-7	Fluorene	10	5240	D
91-20-3	Naphthalene	10	7140	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2130	933	43.8	20 - 108	
SURR: Phenol-d5	2130	1370	64.4	23 - 114	
SURR: Nitrobenzene-d5	1060	890	83.6	22 - 108	
SURR: 2-Fluorobiphenyl	1060	754	70.8	21 - 113	
SURR: 2,4,6-Tribromophenol	2130	2270	107	19 - 110	
SURR: Terphenyl-d14	1060	839	78.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	896056	4.8	819990	4.8	
ISTD: Naphthalene-d8	3701636	5.75	3574569	5.74	
ISTD: Acenaphthene-d10	2466246	7.24	2127881	7.24	
ISTD: Phenanthrene-d10	4947350	9.17	4393448	9.17	
ISTD: Chrysene-d12	6229825	14.57	4923971	14.56	
ISTD: Perylene-d12	7593760	17.69	5758184	17.67	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021120A\SV628965.D Vial: 6
Acq On : 11 Feb 2020 10:38 am Operator: OW
Sample : 20B0093-02RE1 Inst : BNA#6
Misc : QBSV6021120A RE 10X 8270 COMP Multiplr: 10.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:34 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

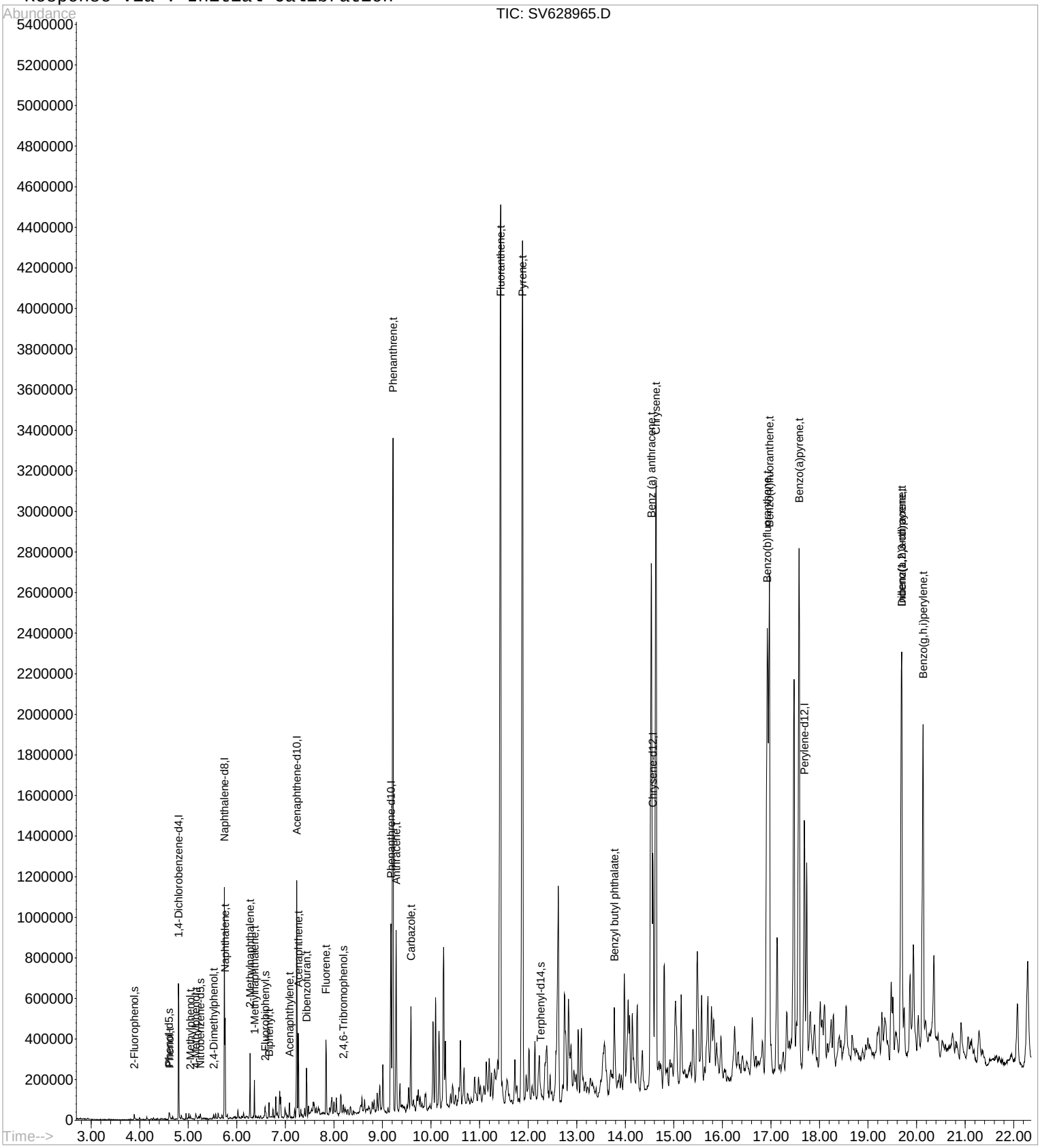
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	896056	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.75	136	3701636	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2466246	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	4947350	40.00	ug/mL	-0.16
80) Chrysene-d12	14.57	240	6229825	40.00	ug/mL	-0.15
92) Perylene-d12	17.69	264	7593760	40.00	ug/mL	-0.13
System Monitoring Compounds						
4) 2-Fluorophenol	3.89	112	71803	2.19	ug/mL	-0.09
Spiked Amount 75.000	Range 15 - 87		Recovery =	2.92%#		
5) Phenol-d5	4.61	99	132860	3.22	ug/mL	-0.06
Spiked Amount 75.000	Range 10 - 100		Recovery =	4.29%#		
22) Nitrobenzene-d5	5.25	82	68173	2.09	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery =	4.18%#		
45) 2-Fluorobiphenyl	6.58	172	150712	1.77	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery =	3.54%#		
67) 2,4,6-Tribromophenol	8.20	330	66818	5.33	ug/mL	-0.13
Spiked Amount 75.000	Range 35 - 126		Recovery =	7.11%#		
82) Terphenyl-d14	12.26	244	298228m	1.97	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery =	3.94%#		
Target Compounds						Qvalue
8) Phenol	4.62	94	36135	0.82	ug/mL#	47
15) 2-Methylphenol	5.05	107	23207m	0.73	ug/mL	
19) 4-Methylphenol	5.16	107	81057	1.72	ug/mL#	64
26) 2,4-Dimethylphenol	5.52	122	51627	1.54	ug/mL#	86
32) Naphthalene	5.76	128	1597851	16.76	ug/mL	97
37) 1-Methylnaphthalene	6.36	141	376090	5.58	ug/mL	98
38) 2-Methylnaphthalene	6.27	142	696747	10.35	ug/mL	96
42) Biphenyl	6.66	153	76972	1.90	ug/mL	96
50) Acenaphthylene	7.09	152	59875	0.47	ug/mL#	74
52) Acenaphthene	7.27	154	851610	11.80	ug/mL	99
54) Dibenzofuran	7.44	168	883481	7.90	ug/mL	97
59) Fluorene	7.84	166	1104853	12.30	ug/mL	96
73) Phenanthrene	9.22	178	17378290	131.47	ug/mL	98
74) Anthracene	9.28	178	4349864	31.08	ug/mL#	93
75) Carbazole	9.59	167	2698497	18.56	ug/mL#	96
78) Fluoranthene	11.43	202	32015021	204.87	ug/mL	96
81) Pyrene	11.88	202	27209658	118.10	ug/mL#	92
83) Benzyl butyl phthalate	13.77	149	26449	0.24	ug/mL#	1
85) Benz (a) anthracene	14.54	228	20035606m	95.87	ug/mL	
87) Chrysene	14.64	228	19389329	96.30	ug/mL#	95
89) Benzo(b)fluoranthene	16.93	252	21593010	113.85	ug/mL#	94
90) Benzo(k)fluoranthene	16.97	252	15798781m	69.92	ug/mL	
91) Benzo(a)pyrene	17.58	252	19993415m	105.92	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.69	276	14919213m	64.11	ug/mL	
94) Dibenz(a,h)anthracene	19.70	278	5006908	30.08	ug/mL#	82
95) Benzo(g,h,i)perylene	20.14	276	13556608m	61.68	ug/mL	

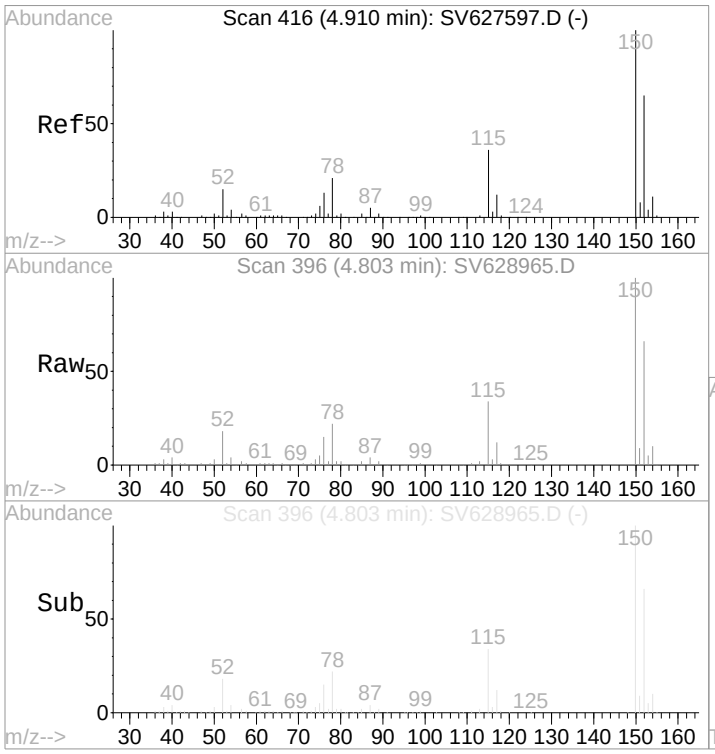
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021120A\SV628965.D Vial: 6
Acq On : 11 Feb 2020 10:38 am Operator: OW
Sample : 20B0093-02RE1 Inst : BNA#6
Misc : QBSV6021120A RE 10X 8270 COMP Multiplr: 10.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:34 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

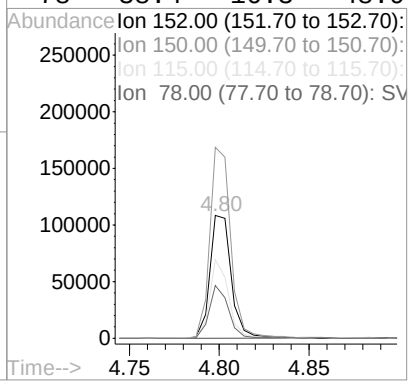


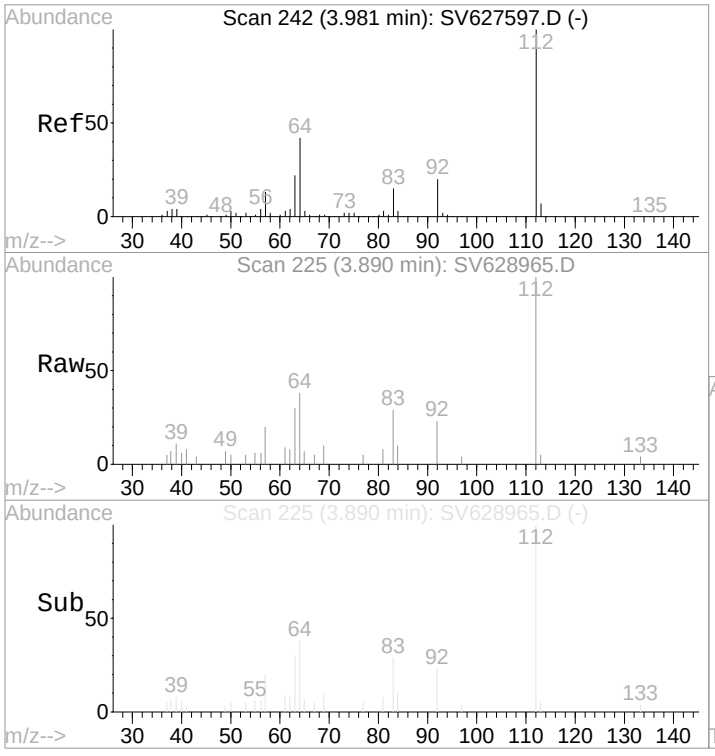


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 396
Delta R.T. -0.11 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:152 Resp: 896056

Ion	Ratio	Lower	Upper
152	100		
150	150.4	84.8	254.4
115	57.2	27.5	82.4
78	38.4	16.3	48.9

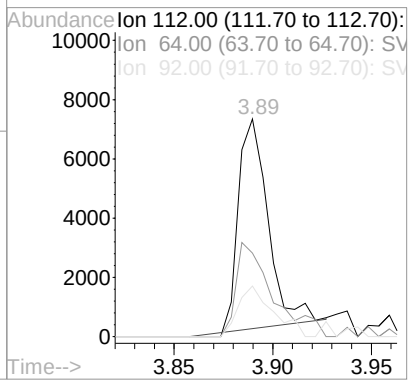


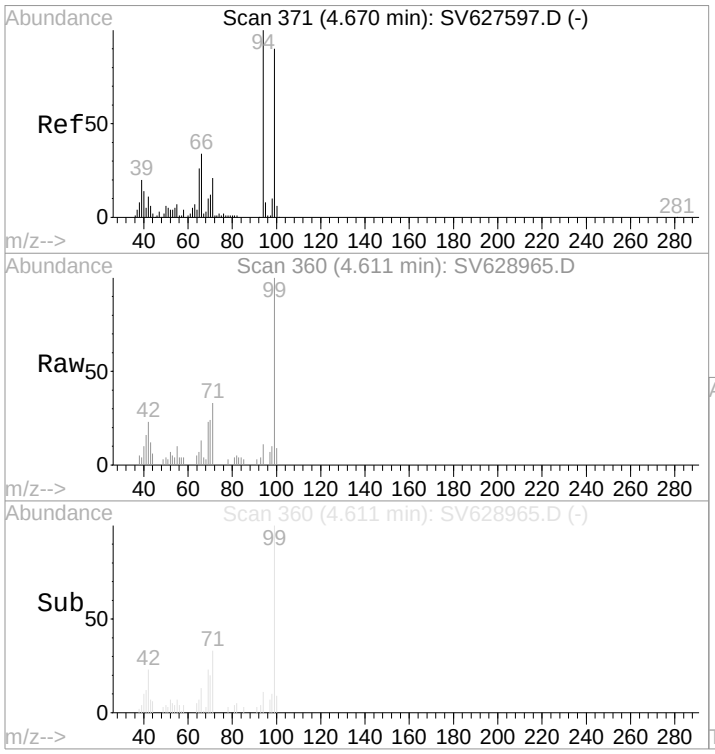


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.89 min Scan# 225
Delta R.T. -0.09 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:112 Resp: 71803

Ion	Ratio	Lower	Upper
112	100		
64	57.1	36.6	54.8#
92	29.2	16.2	24.4#

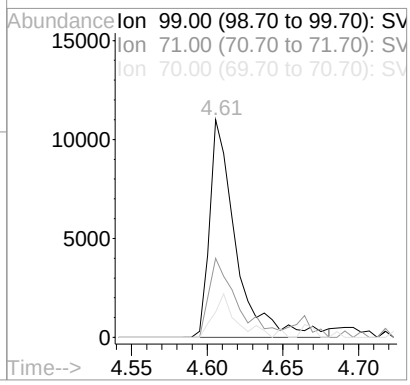


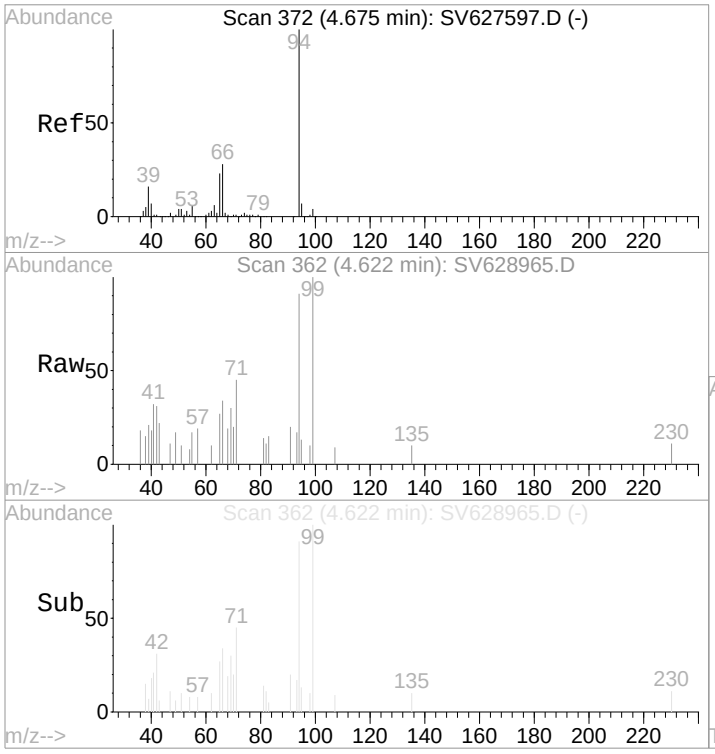


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.61 min Scan# 360
Delta R.T. -0.06 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion: 99 Resp: 132860

Ion	Ratio	Lower	Upper
99	100		
71	31.9	20.5	30.7#
70	16.9	10.3	15.5#

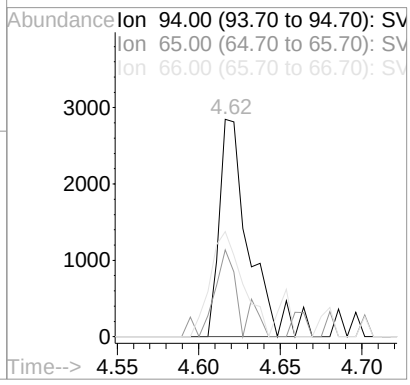


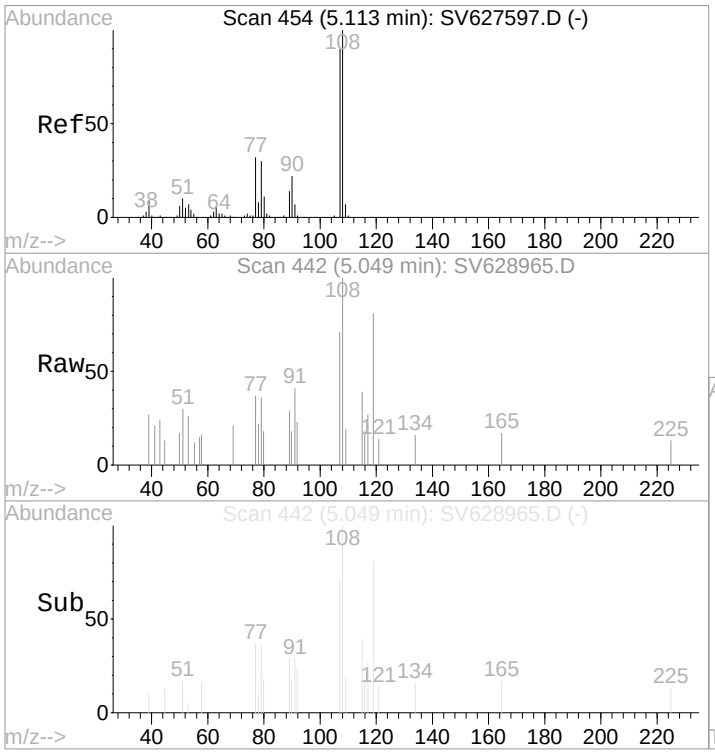


#8
Phenol
Concen: 0.82 ug/mL
RT: 4.62 min Scan# 362
Delta R.T. -0.05 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion: 94 Resp: 36135

Ion	Ratio	Lower	Upper
94	100		
65	0.0	19.1	28.7#
66	0.0	25.3	37.9#

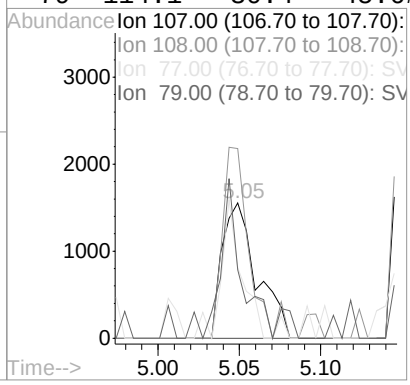


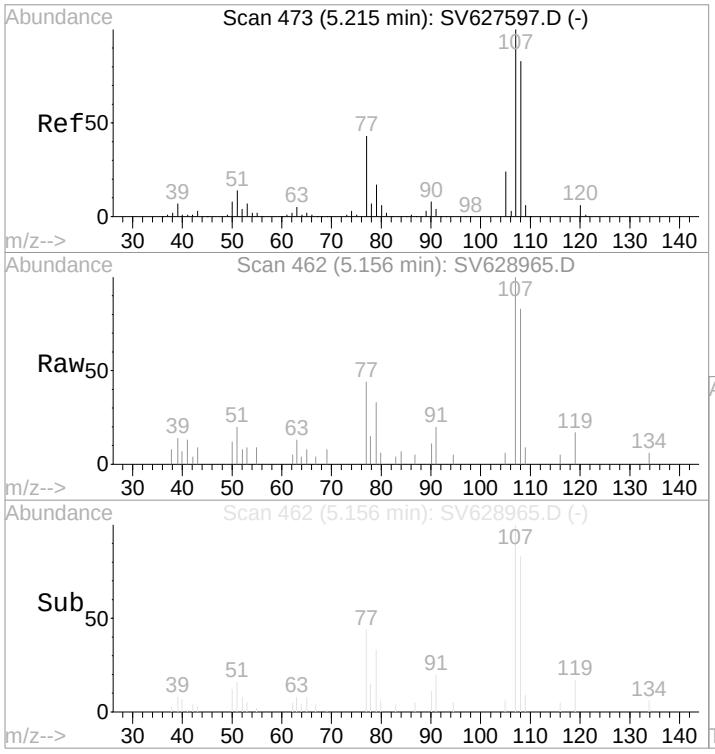


#15
2-Methylphenol
Concen: 0.73 ug/mL m
RT: 5.05 min Scan# 442
Delta R.T. -0.06 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:107 Resp: 23207

Ion	Ratio	Lower	Upper
107	100		
108	267.2	91.3	136.9#
77	160.5	31.2	46.8#
79	114.1	30.4	45.6#

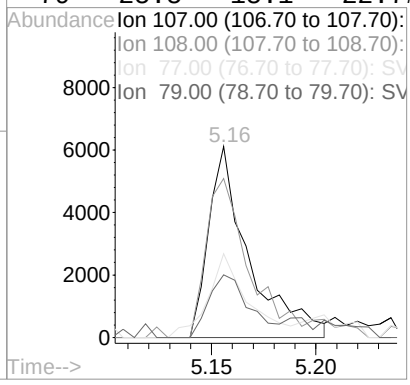


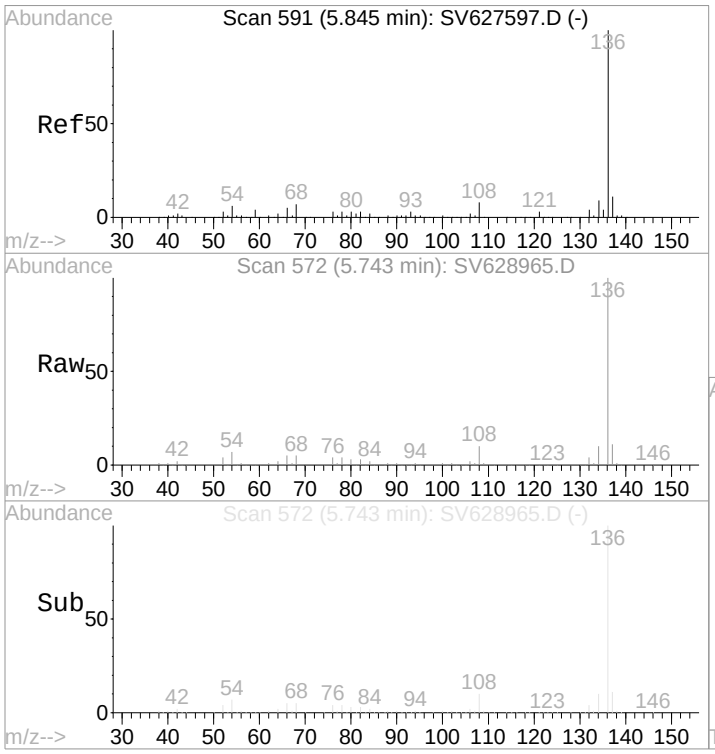


#19
4-Methylphenol
Concen: 1.72 ug/mL
RT: 5.16 min Scan# 462
Delta R.T. -0.05 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:107 Resp: 81057

Ion	Ratio	Lower	Upper
107	100		
108	88.5	66.8	100.2
77	29.7	76.5	114.7#
79	25.5	15.1	22.7#

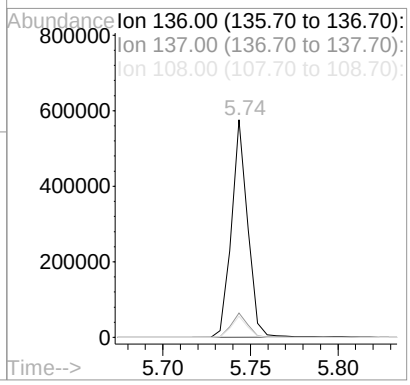


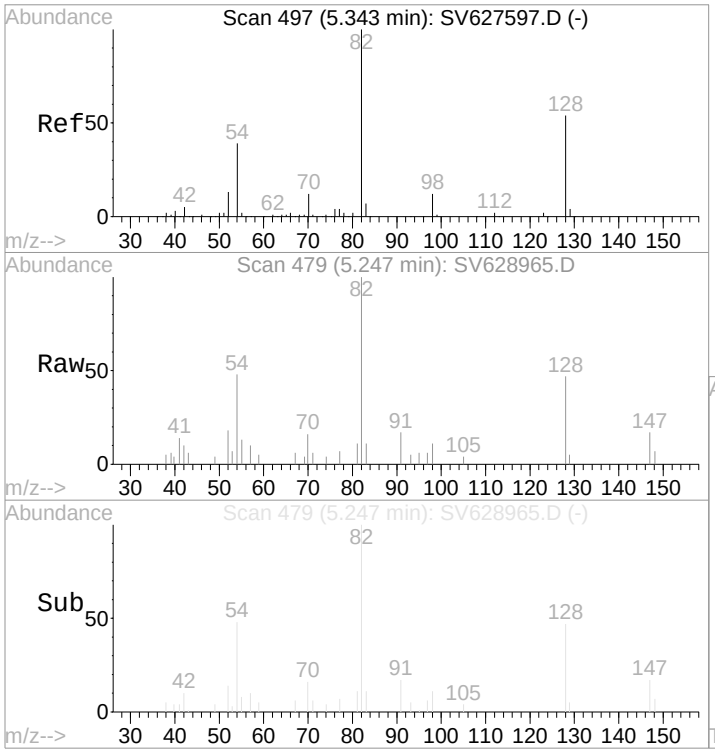


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.75 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:136 Resp: 3701636

Ion	Ratio	Lower	Upper
136	100		
137	11.5	5.7	17.0
108	9.7	4.2	12.4

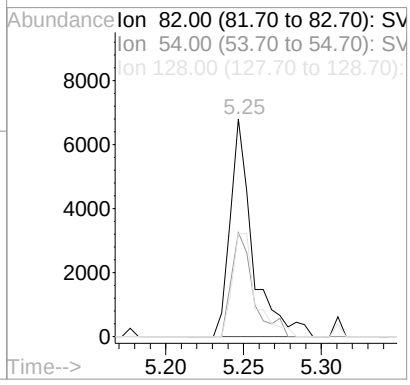


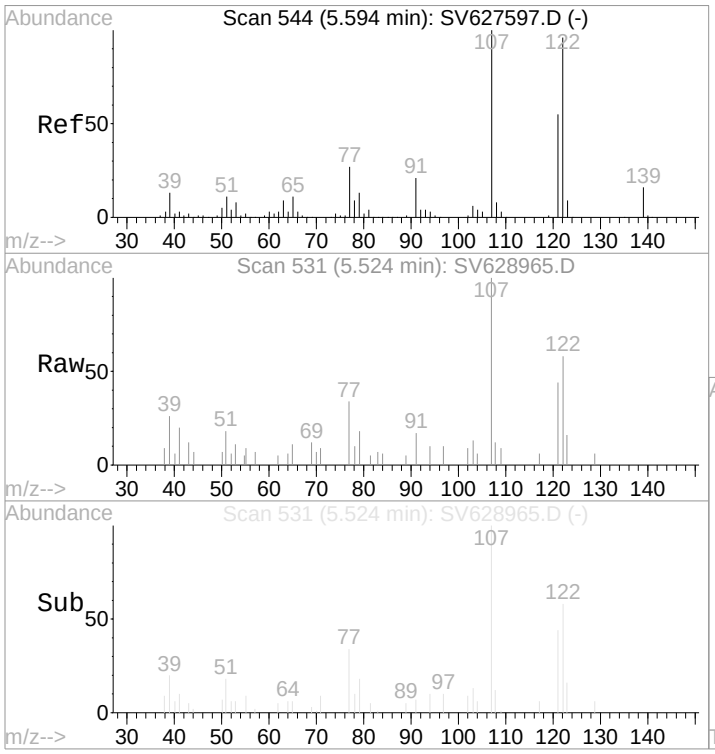


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.25 min Scan# 479
Delta R.T. -0.10 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion: 82 Resp: 68173

Ion	Ratio	Lower	Upper
82	100		
54	46.6	32.4	48.6
128	48.7	41.3	61.9

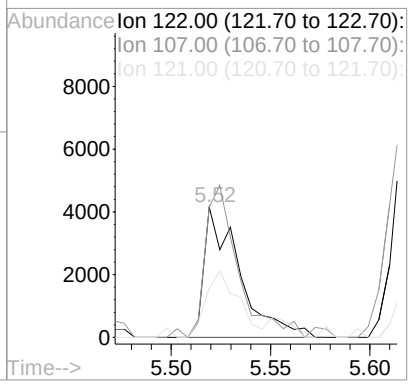


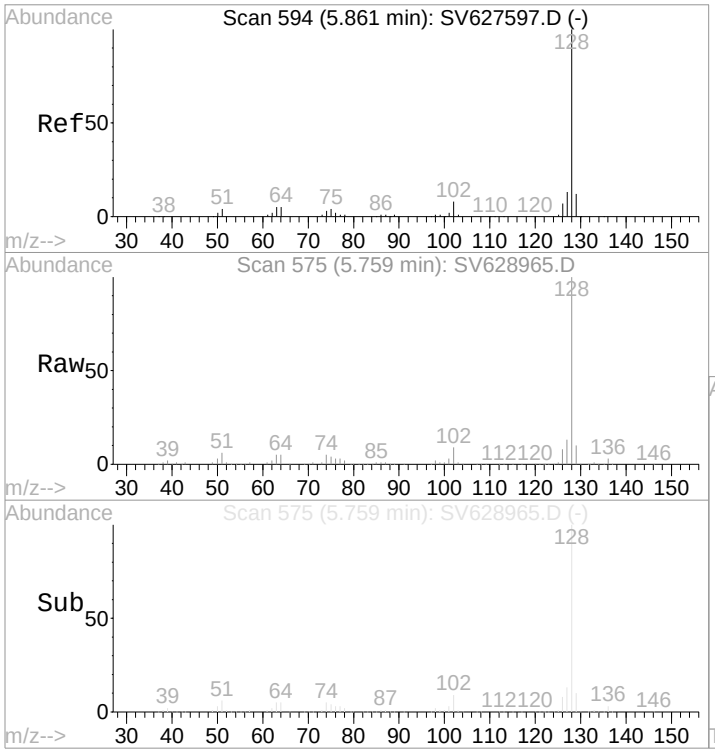


#26
2,4-Dimethylphenol
Concen: 1.54 ug/mL
RT: 5.52 min Scan# 531
Delta R.T. -0.07 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:122 Resp: 51627

Ion	Ratio	Lower	Upper
122	100		
107	109.2	80.7	121.1
121	38.8	44.6	66.8#

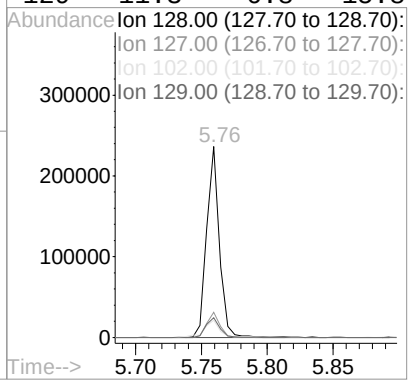


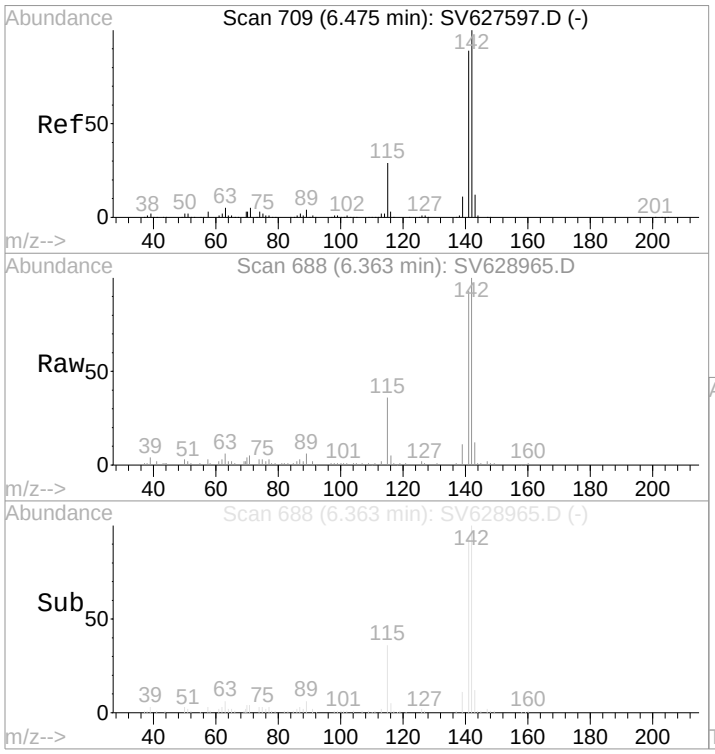


#32
Naphthalene
Concen: 16.76 ug/mL
RT: 5.76 min Scan# 575
Delta R.T. -0.10 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:128 Resp: 1597851

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
102	11.3	4.1	12.3
129	11.3	6.8	15.8

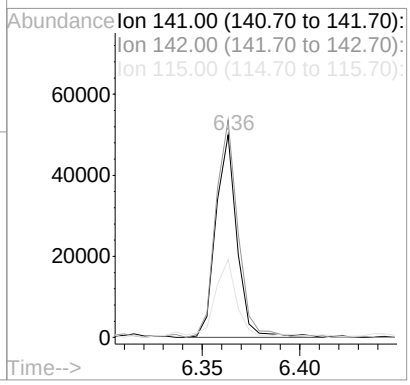


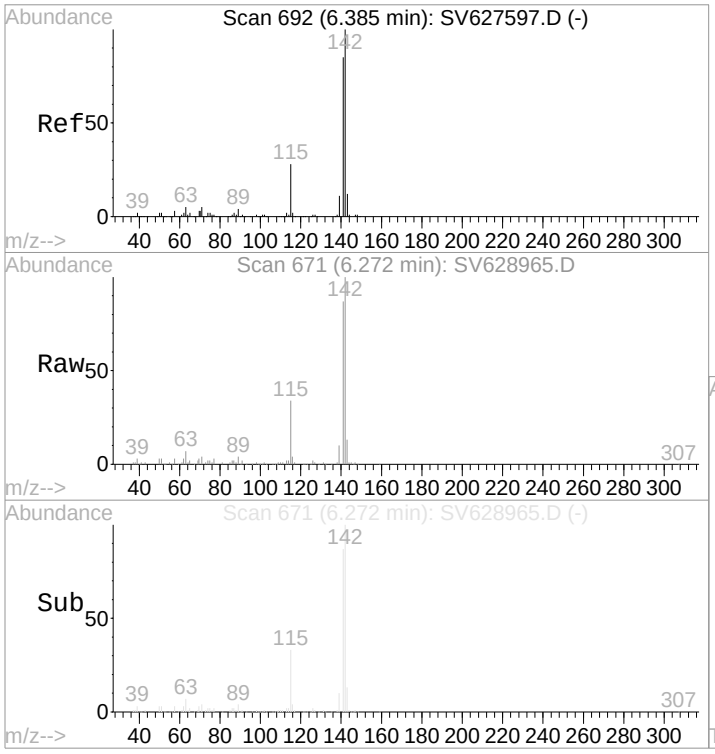


#37
1-Methylnaphthalene
Concen: 5.58 ug/mL
RT: 6.36 min Scan# 688
Delta R.T. -0.11 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:141 Resp: 376090

Ion	Ratio	Lower	Upper
141	100		
142	112.7	90.6	135.8
115	38.3	28.2	42.4

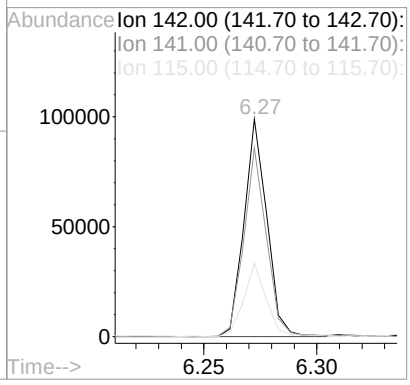


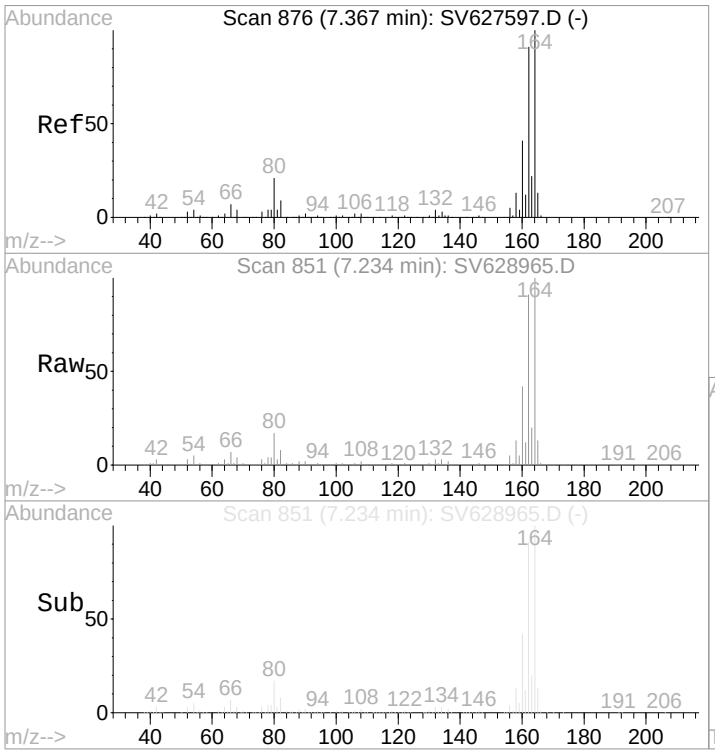


#38
2-Methylnaphthalene
Concen: 10.35 ug/mL
RT: 6.27 min Scan# 671
Delta R.T. -0.11 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:142 Resp: 696747

Ion	Ratio	Lower	Upper
142	100		
141	86.0	67.4	101.2
115	33.8	23.4	35.0

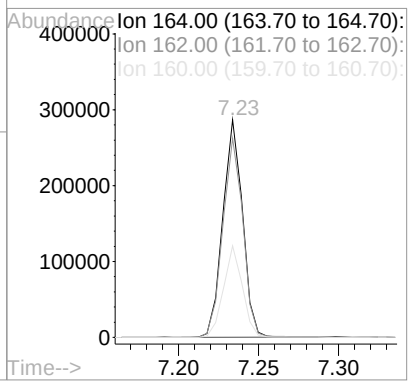


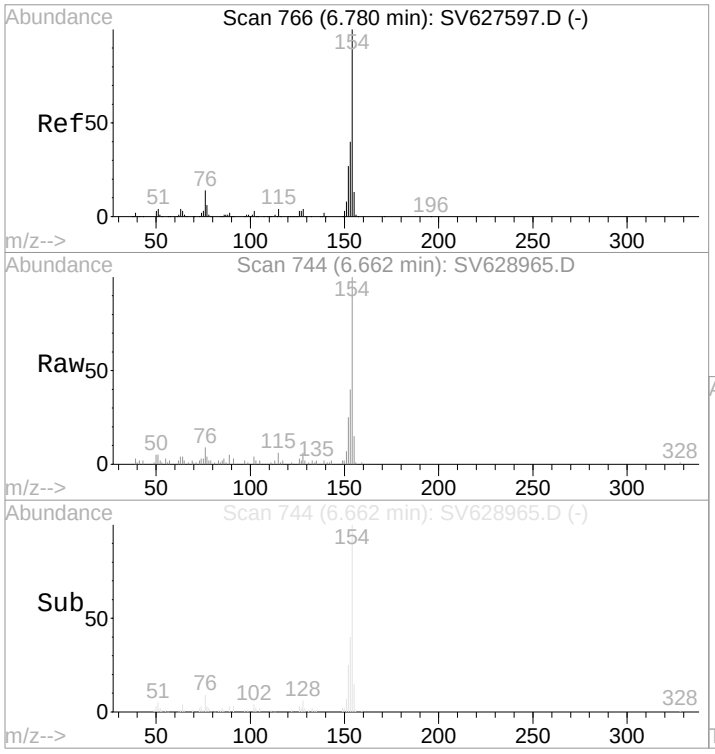


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.24 min Scan# 851
Delta R.T. -0.13 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:164 Resp: 2466246

Ion	Ratio	Lower	Upper
164	100		
162	93.0	46.5	139.3
160	40.7	20.9	62.7

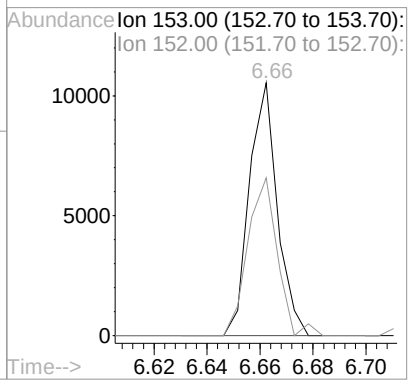


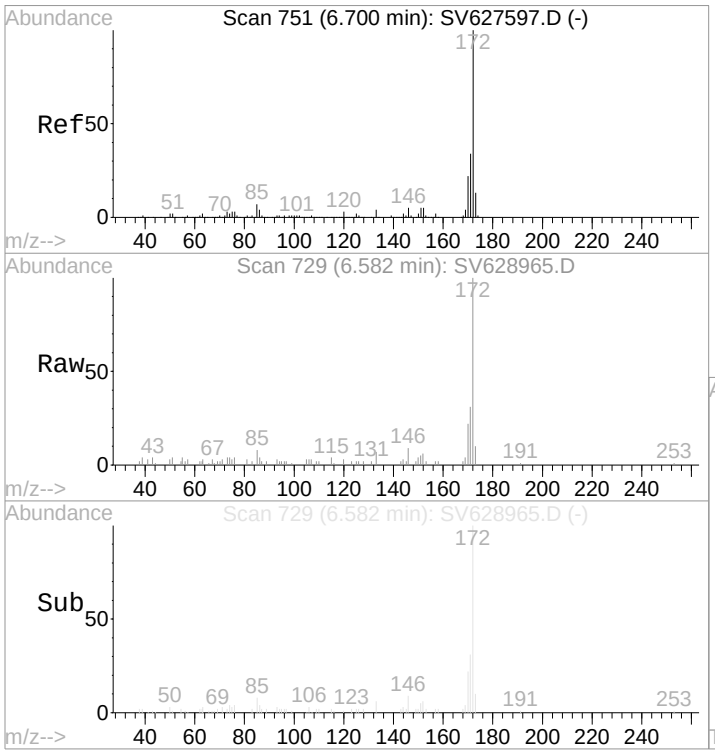


#42
Biphenyl
Concen: 1.90 ug/mL
RT: 6.66 min Scan# 744
Delta R.T. -0.12 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:153 Resp: 76972

Ion	Ratio	Lower	Upper
153	100		
152	64.5	54.2	81.4

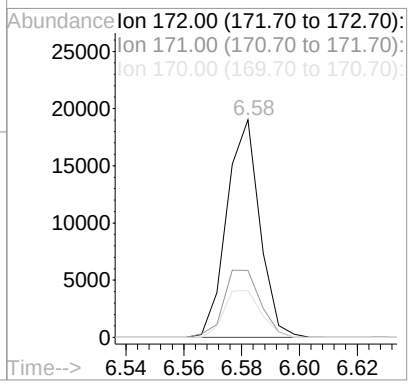


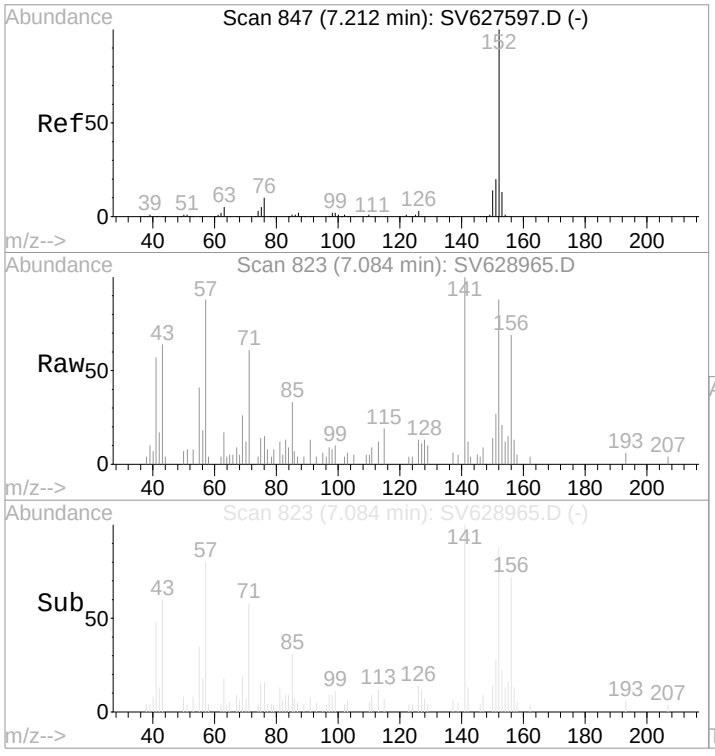


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 729
Delta R.T. -0.12 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:172 Resp: 150712

Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.2	40.8
170	24.2	18.1	27.1

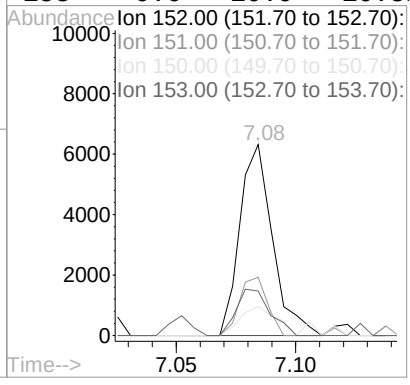


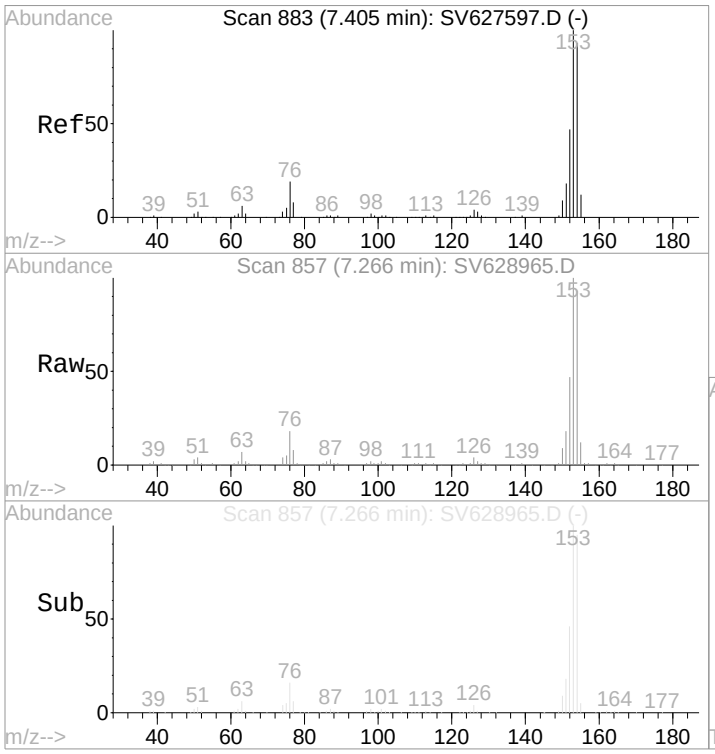


#50
Acenaphthylene
Concen: 0.47 ug/mL
RT: 7.09 min Scan# 823
Delta R.T. -0.13 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:152 Resp: 59875

Ion	Ratio	Lower	Upper
152	100		
151	26.0	15.7	23.5#
150	0.0	11.2	16.8#
153	0.0	10.9	16.3#

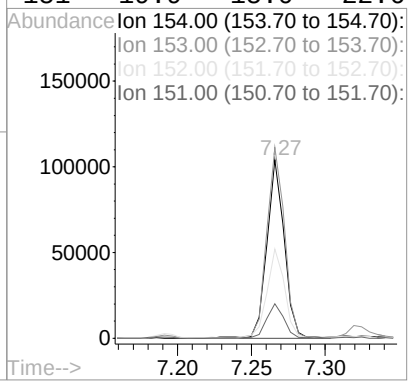


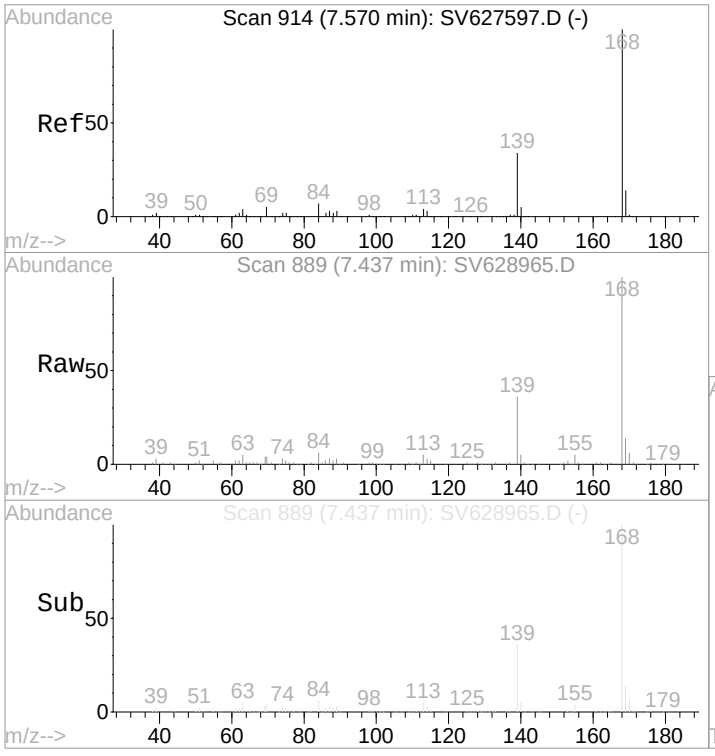


#52
Acenaphthene
Concen: 11.80 ug/mL
RT: 7.27 min Scan# 857
Delta R.T. -0.13 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:154 Resp: 851610

Ion	Ratio	Lower	Upper
154	100		
153	109.3	86.2	129.4
152	51.0	40.4	60.6
151	19.9	15.0	22.6

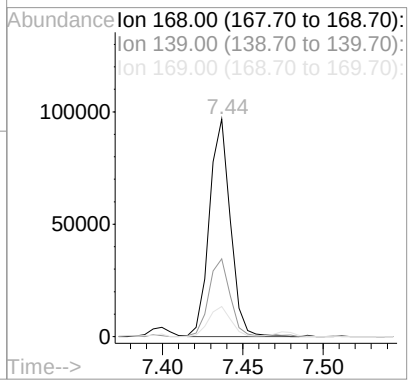


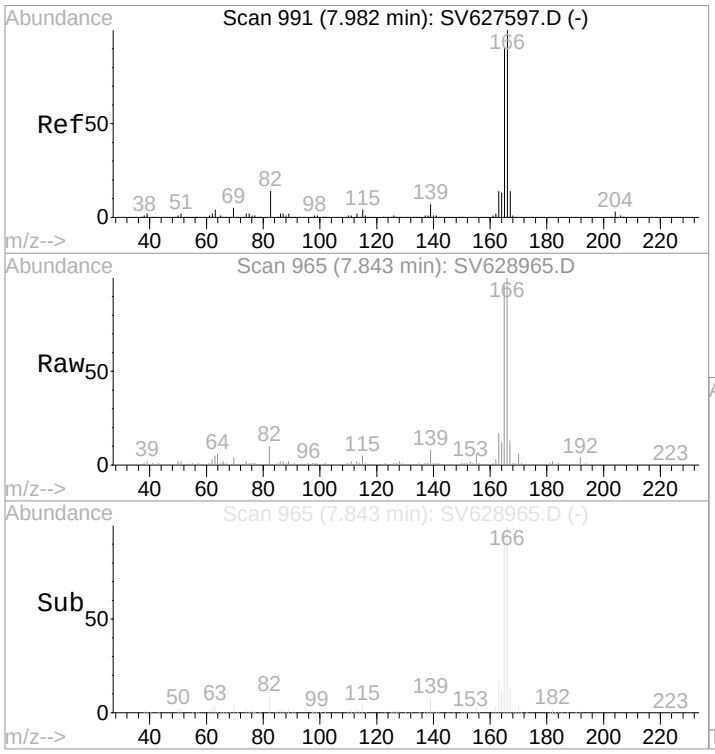


#54
Dibenzofuran
Concen: 7.90 ug/mL
RT: 7.44 min Scan# 889
Delta R.T. -0.13 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:168 Resp: 883481

Ion	Ratio	Lower	Upper
168	100		
139	35.3	26.6	40.0
169	14.7	11.0	16.4

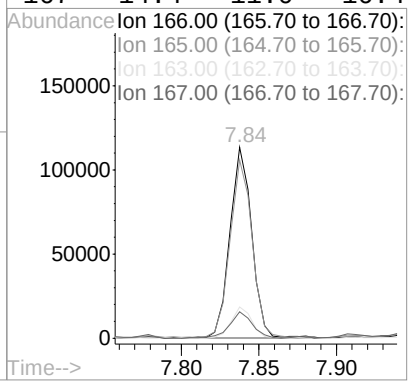


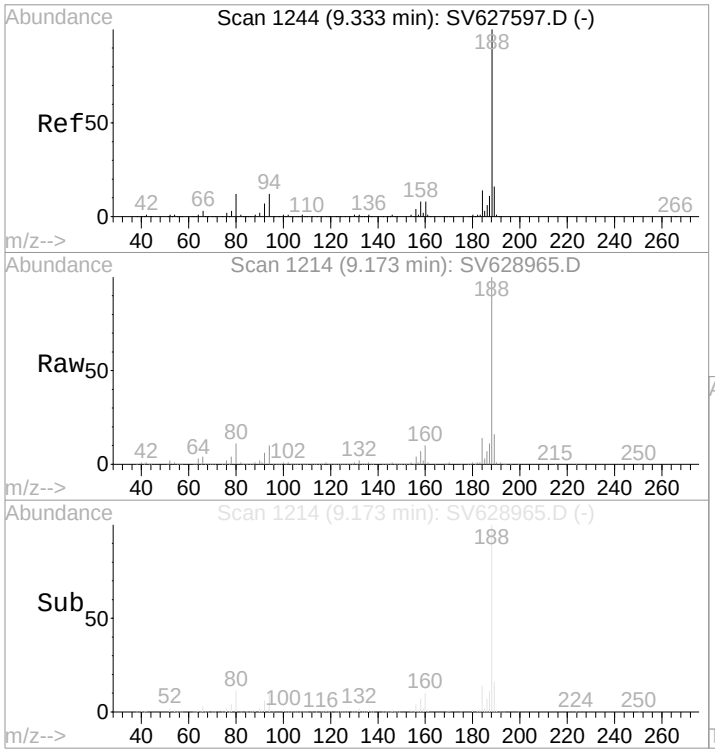


#59
Fluorene
Concen: 12.30 ug/mL
RT: 7.84 min Scan# 965
Delta R.T. -0.14 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:166 Resp: 1104853

Ion	Ratio	Lower	Upper
166	100		
165	95.2	72.6	109.0
163	15.6	11.5	17.3
167	14.4	11.0	16.4

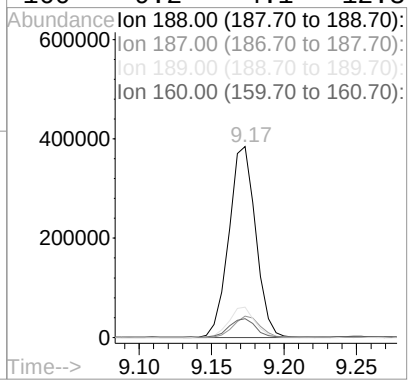


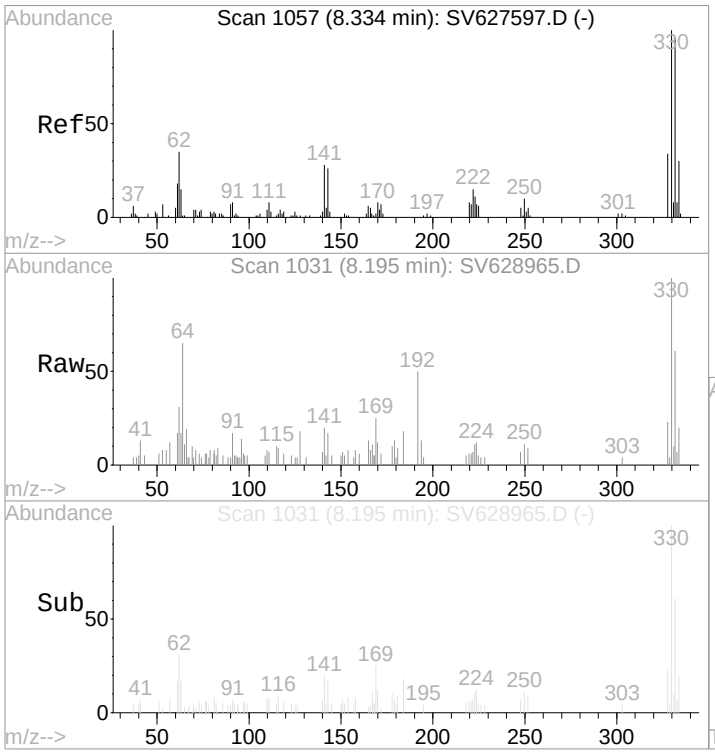


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.17 min Scan# 1214
Delta R.T. -0.16 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:188 Resp: 4947350

Ion	Ratio	Lower	Upper
188	100		
187	11.1	8.4	12.6
189	15.4	8.0	23.8
160	9.2	4.1	12.3

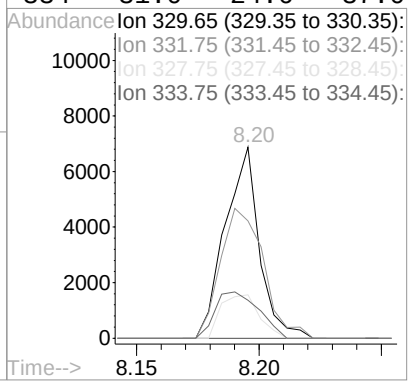


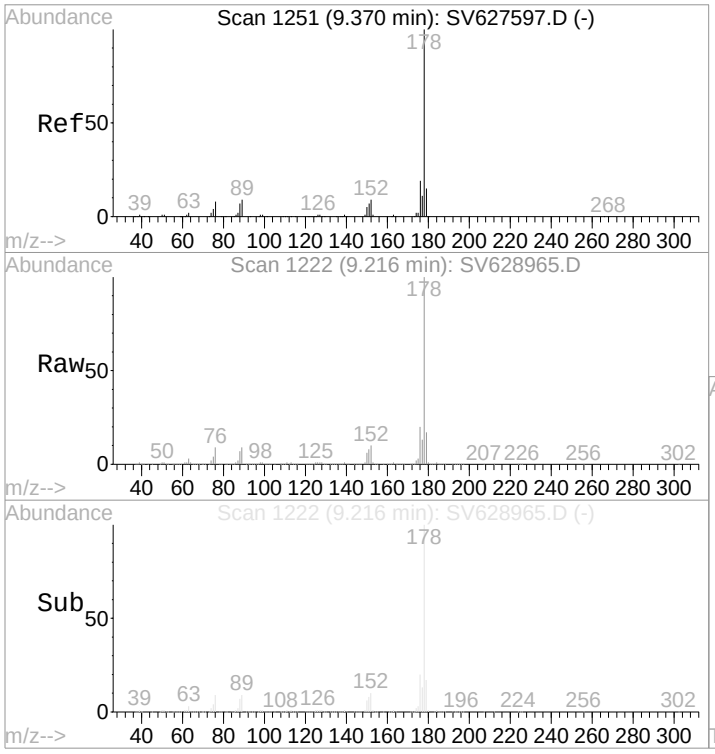


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.20 min Scan# 1031
Delta R.T. -0.13 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:330 Resp: 66818

Ion	Ratio	Lower	Upper
330	100		
332	85.7	74.2	111.2
328	0.0	28.5	42.7#
334	31.0	24.6	37.0

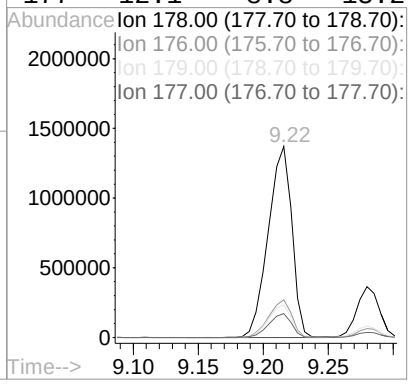


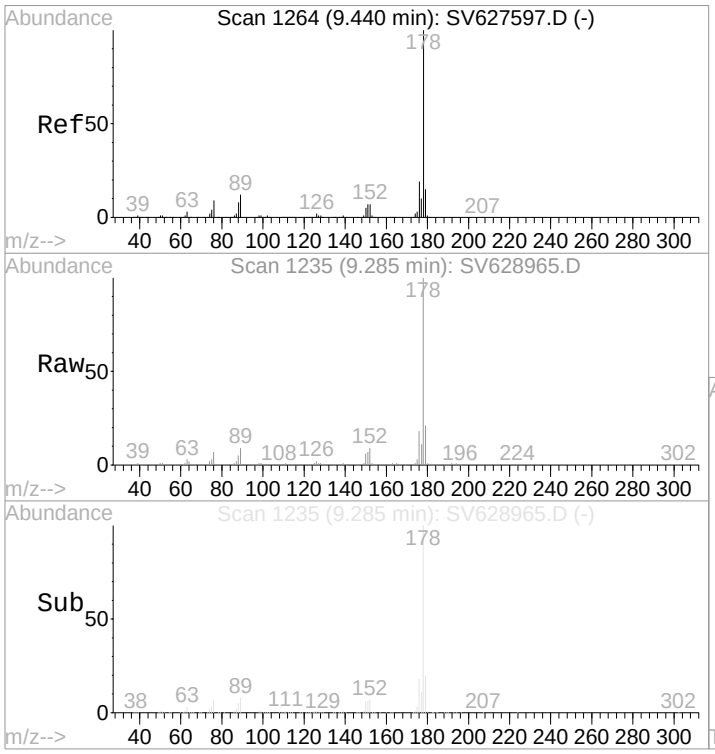


#73
Phenanthrene
Concen: 131.47 ug/mL
RT: 9.22 min Scan# 1222
Delta R.T. -0.15 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:178 Resp:17378290

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	16.7	12.5	18.7
177	12.1	8.8	13.2

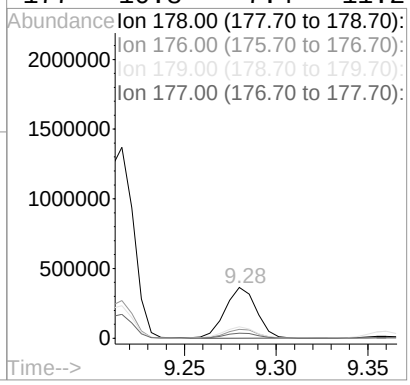


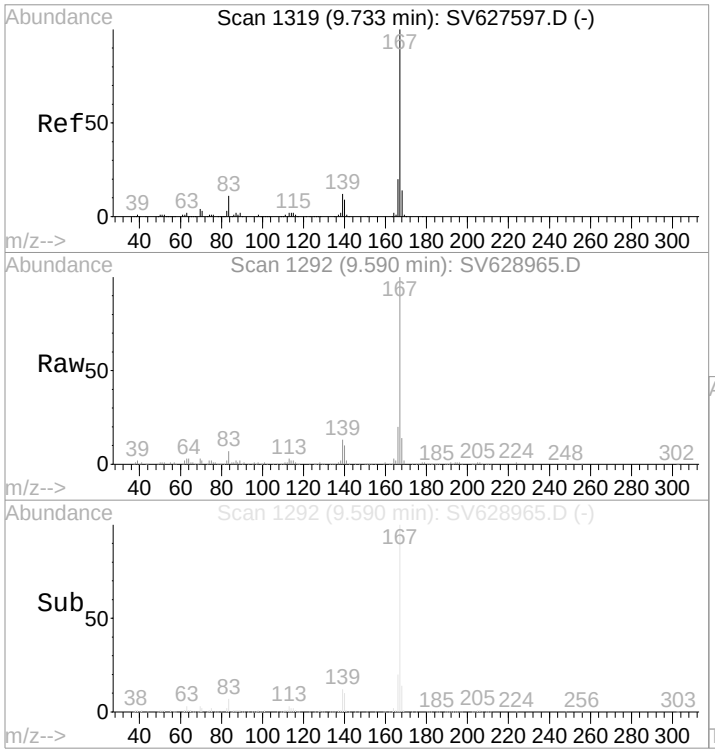


#74
Anthracene
Concen: 31.08 ug/mL
RT: 9.28 min Scan# 1235
Delta R.T. -0.15 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:178 Resp: 4349864

Ion	Ratio	Lower	Upper
178	100		
176	17.8	14.5	21.7
179	22.4	12.5	18.7#
177	10.8	7.4	11.2

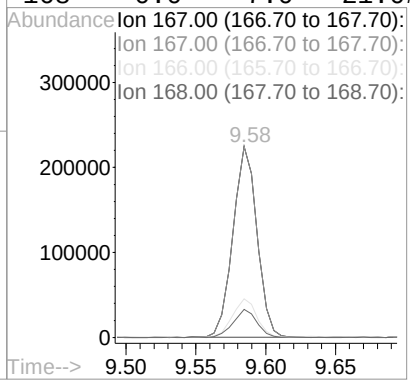


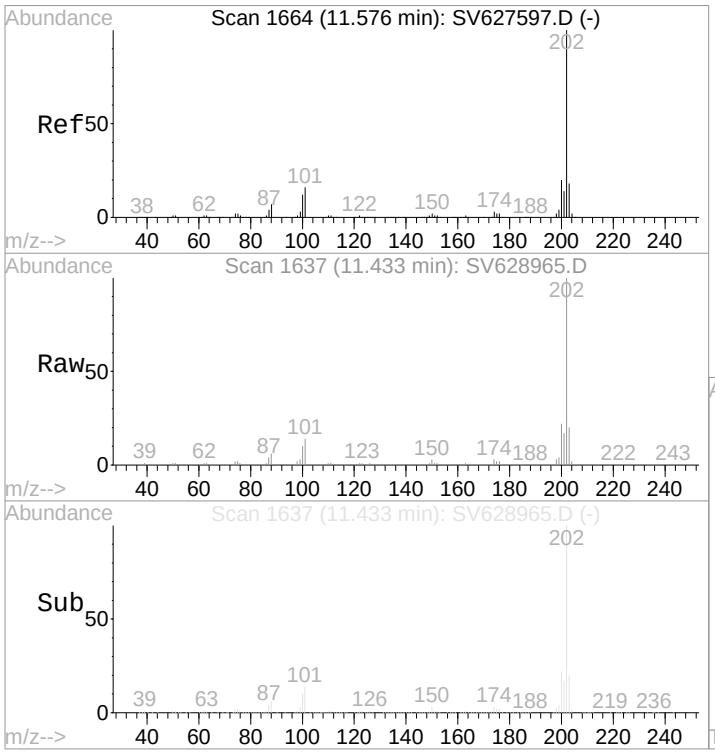


#75
Carbazole
Concen: 18.56 ug/mL
RT: 9.59 min Scan# 1292
Delta R.T. -0.14 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:167 Resp: 2698497

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	20.7	0.0	0.0#
168	0.0	7.0	21.0#

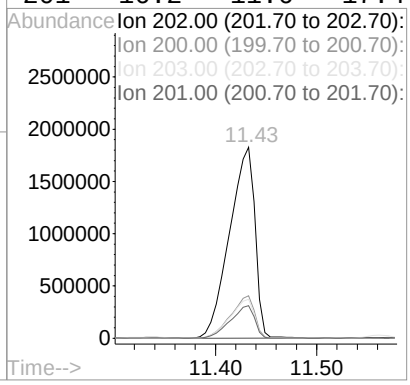


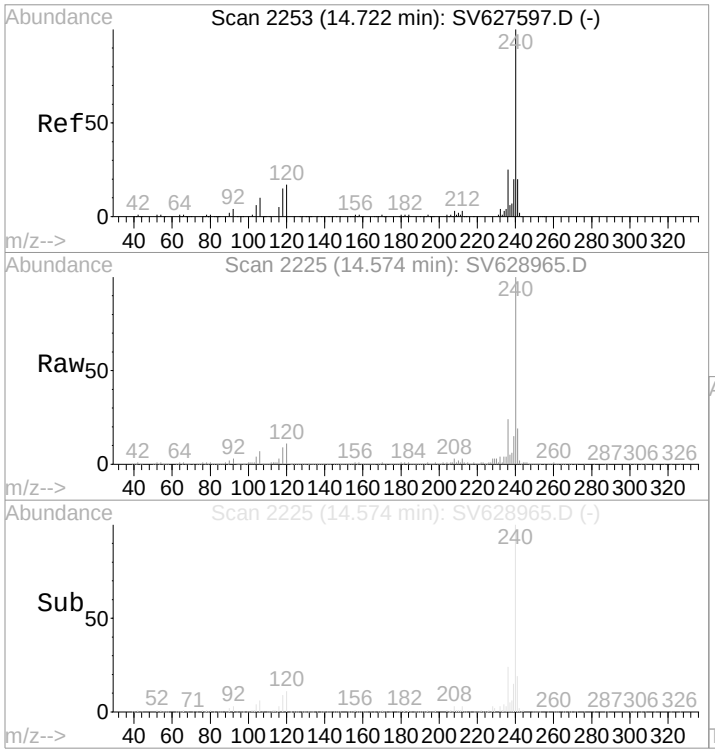


#78
Fluoranthene
Concen: 204.87 ug/mL
RT: 11.43 min Scan# 1637
Delta R.T. -0.14 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:202 Resp:32015021

Ion	Ratio	Lower	Upper
202	100		
200	20.9	15.8	23.6
203	19.7	14.1	21.1
201	16.2	11.6	17.4

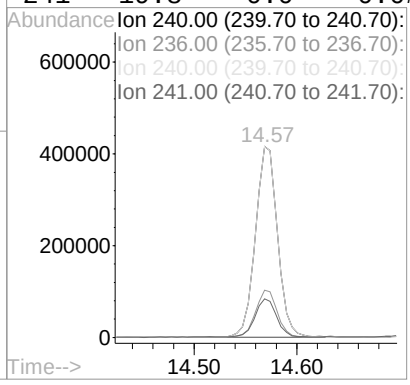


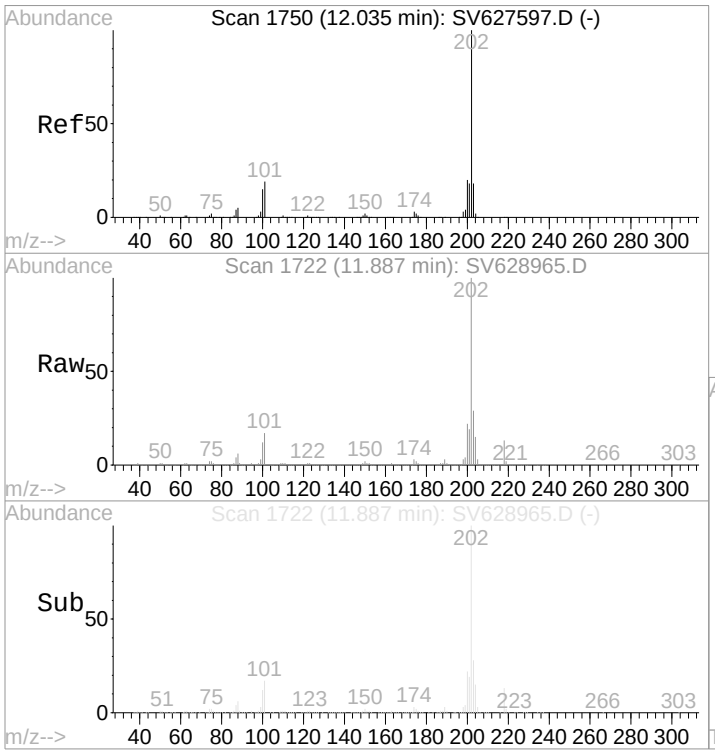


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.57 min Scan# 2225
Delta R.T. -0.15 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:240 Resp: 6229825

Ion	Ratio	Lower	Upper
240	100		
236	24.5	12.2	36.4
240	100.0	50.0	150.0
241	19.8	0.0	0.0#

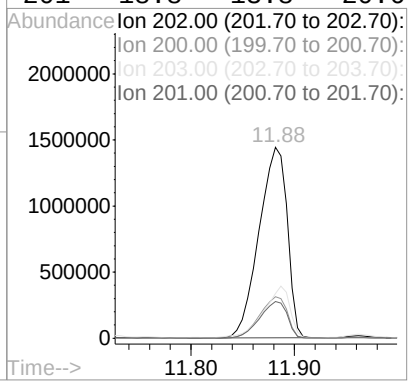


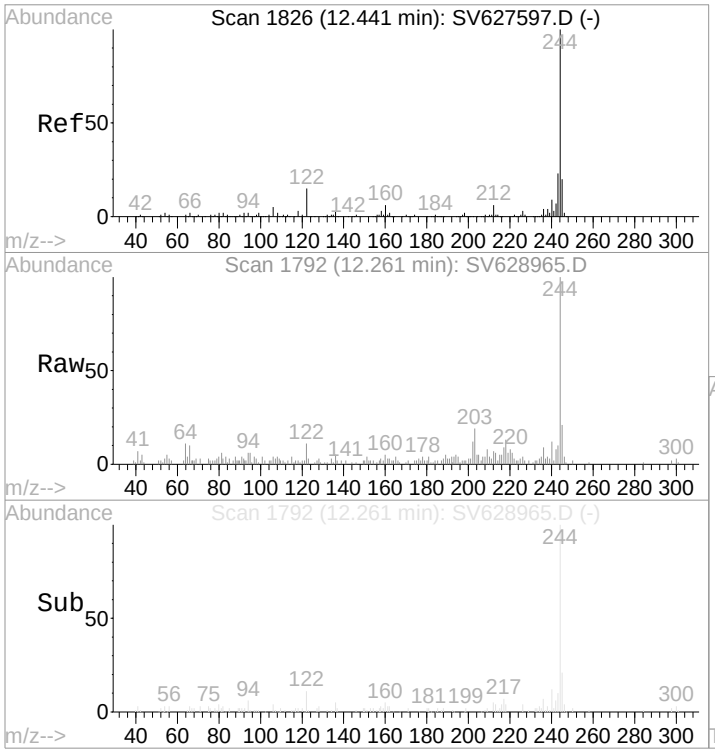


#81
Pyrene
Concen: 118.10 ug/mL
RT: 11.88 min Scan# 1722
Delta R.T. -0.15 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:202 Resp:27209658

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.2	24.2
203	25.8	14.6	22.0#
201	18.8	13.8	20.6

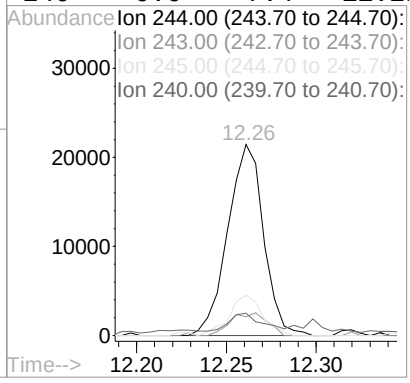


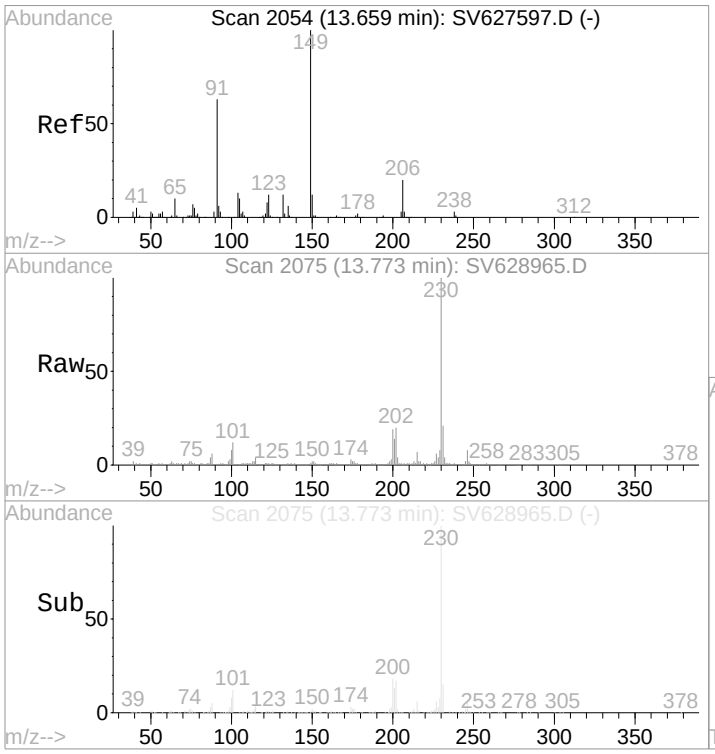


#82
Terphenyl-d14
Concen: 118.10 ug/mL m
RT: 12.26 min Scan# 1792
Delta R.T. -0.18 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:244 Resp: 298228

Ion	Ratio	Lower	Upper
244	100		
243	0.0	18.4	27.6#
245	0.0	15.4	23.0#
240	0.0	7.4	11.2#

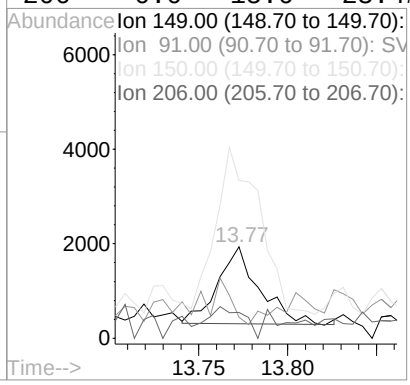


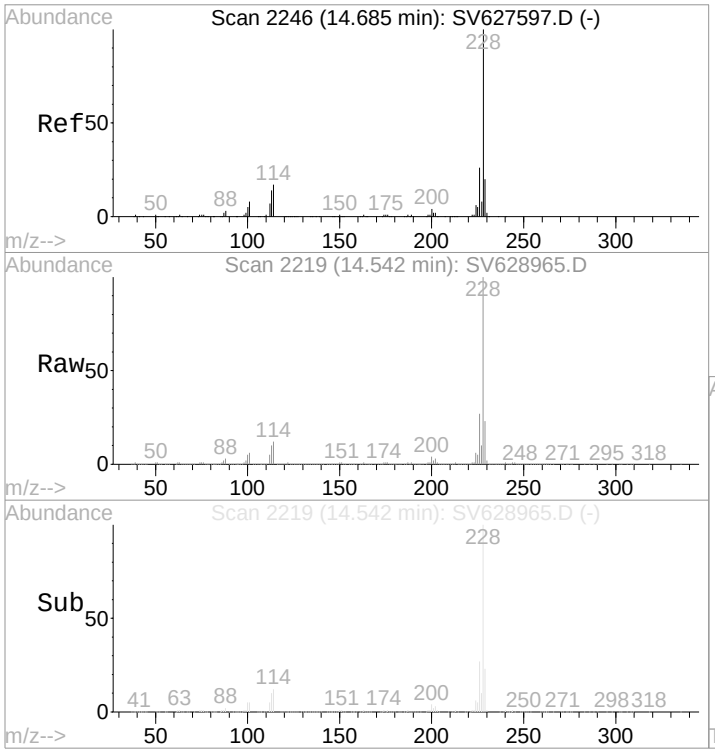


#83
Benzyl butyl phthalate
Concen: 0.24 ug/mL
RT: 13.77 min Scan# 2075
Delta R.T. 0.11 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:149 Resp: 26449

Ion	Ratio	Lower	Upper
149	100		
91	0.0	51.8	77.6#
150	232.3	9.6	14.4#
206	0.0	15.6	23.4#

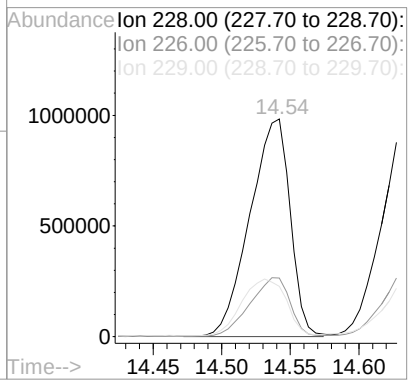


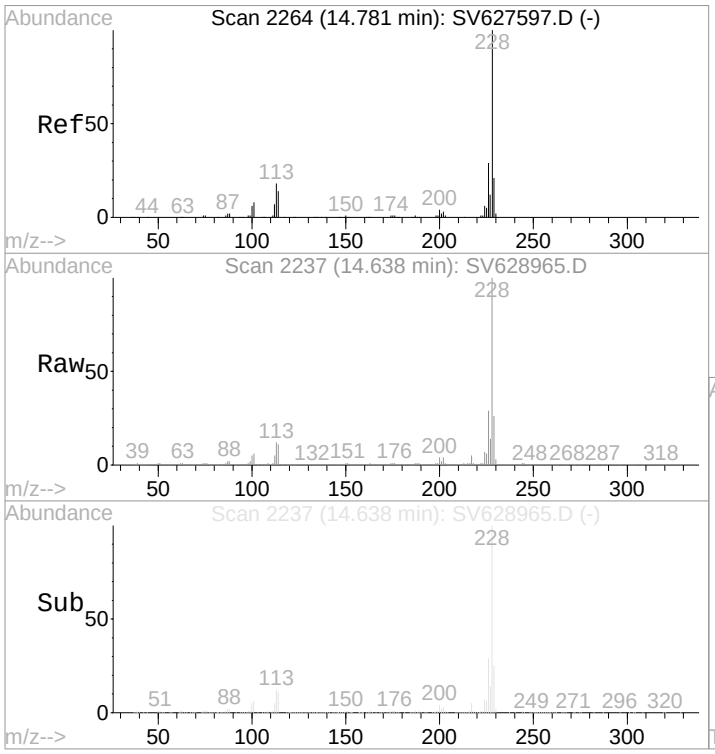


#85
Benz (a) anthracene
Concen: 95.87 ug/mL m
RT: 14.54 min Scan# 2219
Delta R.T. -0.14 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:228 Resp:20035606

Ion	Ratio	Lower	Upper
228	100		
226	28.4	21.3	31.9
229	23.8	16.4	24.6

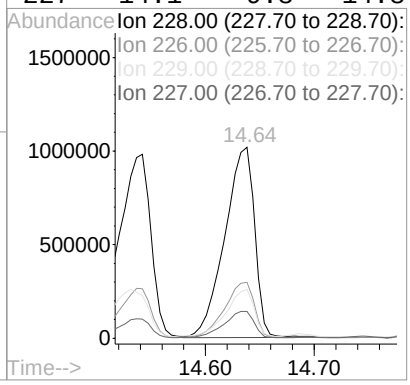


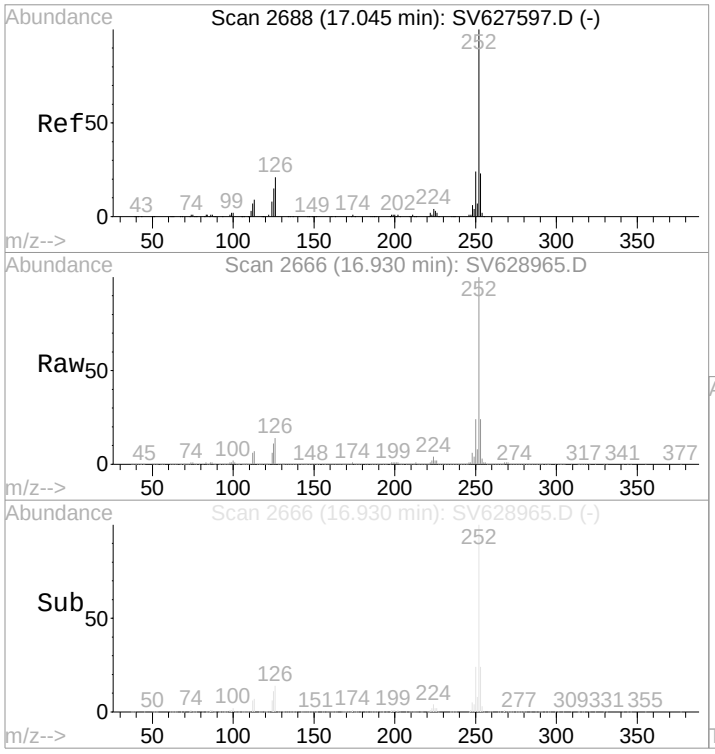


#87
Chrysene
Concen: 96.30 ug/mL
RT: 14.64 min Scan# 2237
Delta R.T. -0.14 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:228 Resp:19389329

Ion	Ratio	Lower	Upper
228	100		
226	28.8	23.6	35.4
229	24.7	15.5	23.3#
227	14.1	9.8	14.8

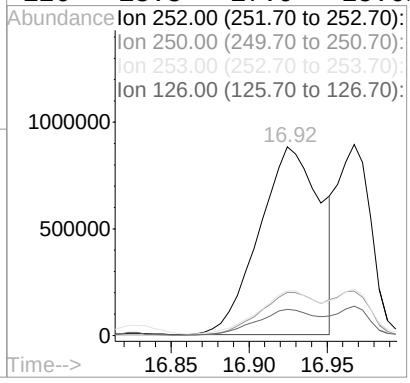


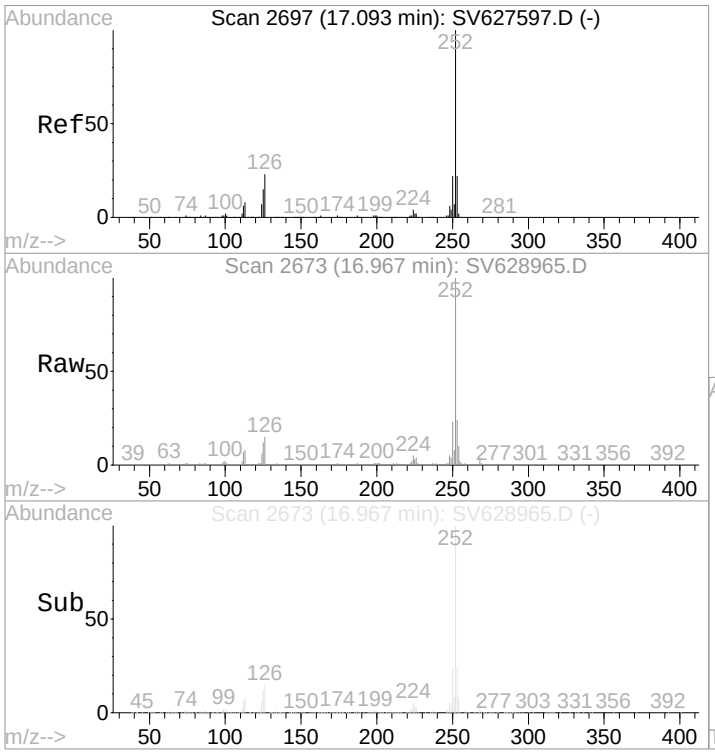


#89
Benzo(b)fluoranthene
Concen: 113.85 ug/mL
RT: 16.93 min Scan# 2666
Delta R.T. -0.11 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:252 Resp:21593010

Ion	Ratio	Lower	Upper
252	100		
250	22.6	18.2	27.4
253	23.9	17.9	26.9
126	13.8	17.0	25.6#

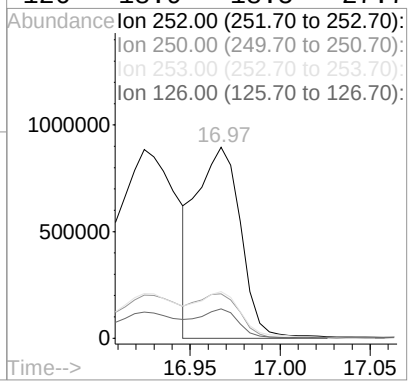


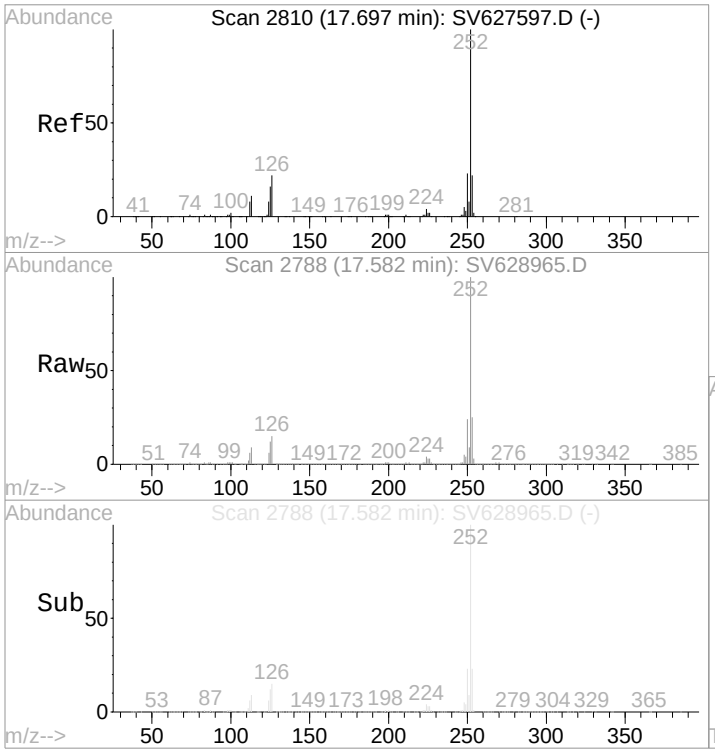


#90
Benzo(k)fluoranthene
Concen: 69.92 ug/mL m
RT: 16.97 min Scan# 2673
Delta R.T. -0.12 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:252 Resp:15798781

Ion	Ratio	Lower	Upper
252	100		
250	30.8	17.2	25.8#
253	32.2	18.1	27.1#
126	18.9	18.5	27.7

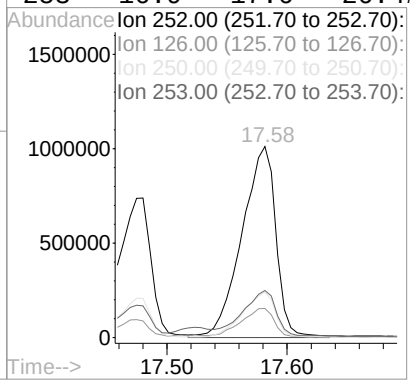


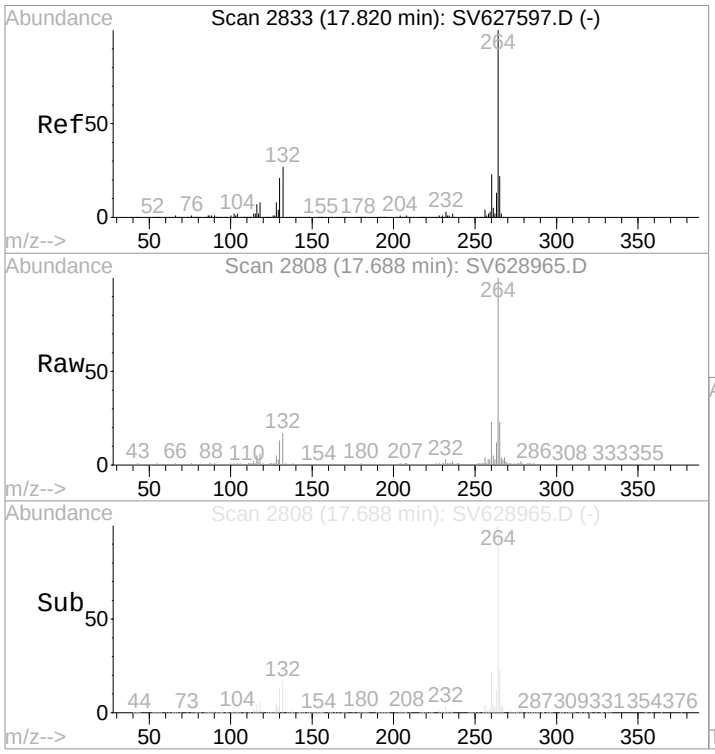


#91
Benzo(a)pyrene
Concen: 105.92 ug/mL m
RT: 17.58 min Scan# 2788
Delta R.T. -0.11 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:252 Resp:19993415

Ion	Ratio	Lower	Upper
252	100		
126	9.0	18.4	27.6#
250	19.1	17.8	26.8
253	16.9	17.6	26.4#

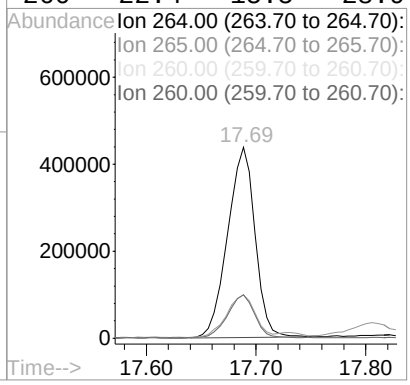


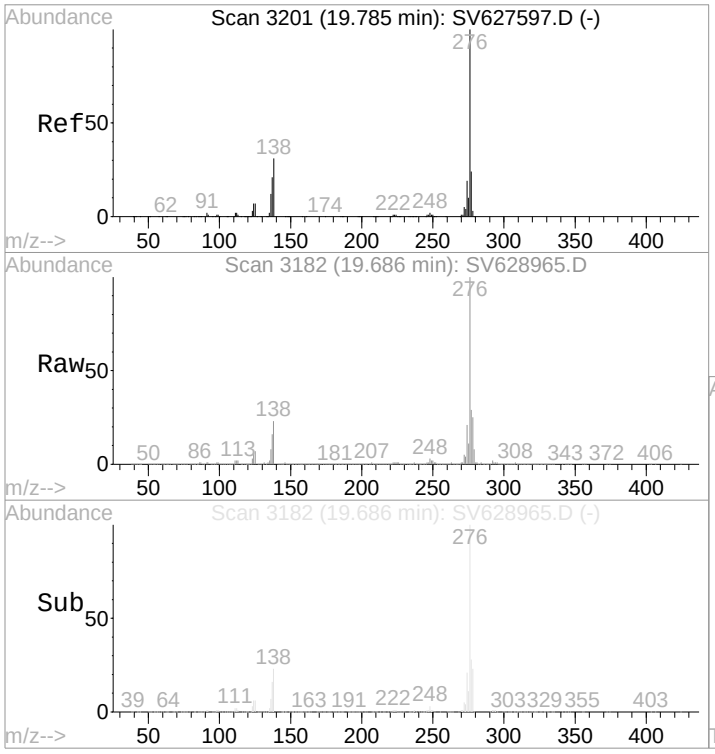


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.69 min Scan# 2808
Delta R.T. -0.13 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:264 Resp: 7593760

Ion	Ratio	Lower	Upper
264	100		
265	23.4	0.0	0.0#
260	22.4	17.8	26.6
260	22.4	15.5	28.9

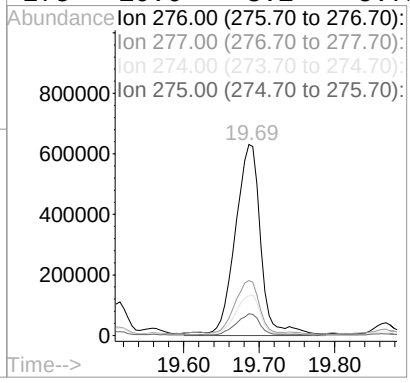


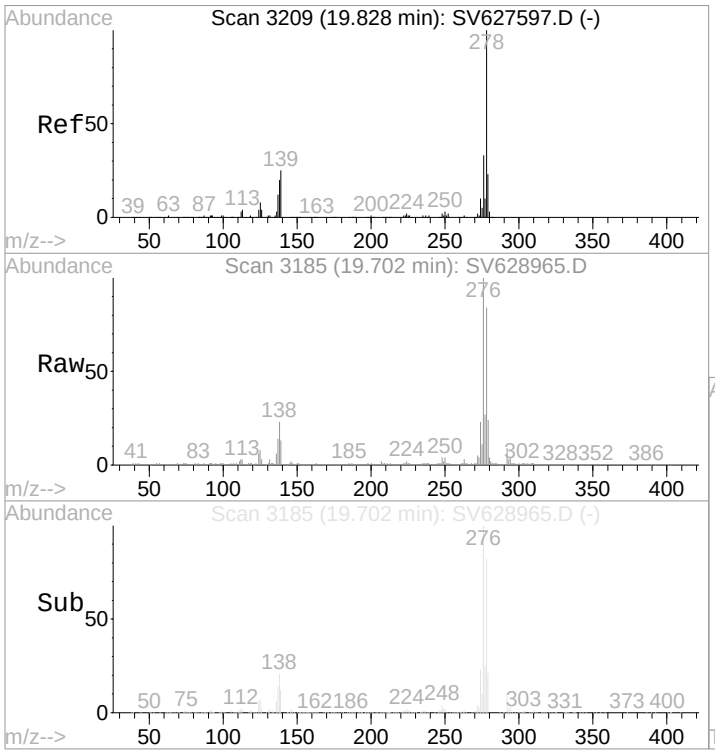


#93
Indeno(1,2,3-cd)pyrene
Concen: 64.11 ug/mL m
RT: 19.69 min Scan# 3182
Delta R.T. -0.09 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:276 Resp:14919213

Ion	Ratio	Lower	Upper
276	100		
277	25.0	12.9	19.3#
274	19.0	10.8	16.2#
275	10.6	3.1	5.7#

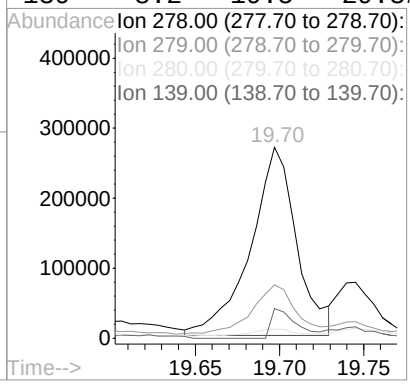


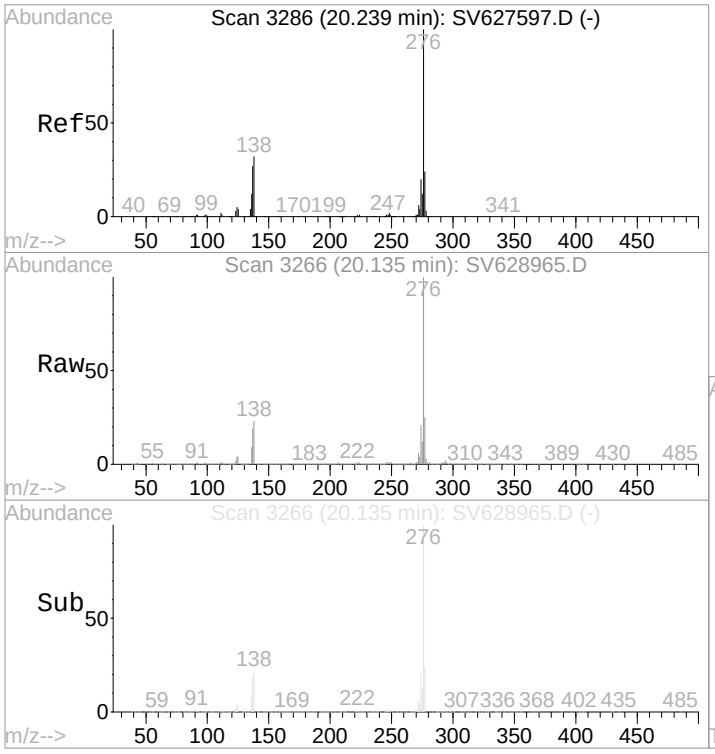


#94
Dibenz(a,h)anthracene
Concen: 30.08 ug/mL
RT: 19.70 min Scan# 3185
Delta R.T. -0.12 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:278 Resp: 5006908

Ion	Ratio	Lower	Upper
278	100		
279	24.6	18.5	27.7
280	3.3	0.0	5.0
139	8.2	19.5	29.3#

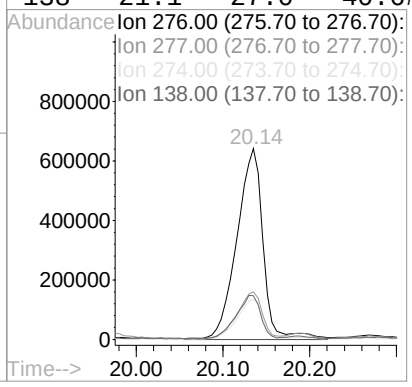




#95
Benzo(g,h,i)perylene
Concen: 61.68 ug/mL m
RT: 20.14 min Scan# 3266
Delta R.T. -0.09 min
Lab File: SV628965.D
Acq: 11 Feb 2020 10:38 am

Tgt Ion:276 Resp:13556608

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
274	19.2	0.0	42.2
138	21.1	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02RE2 File ID: SV628964.D

Sampled: 02/04/20 10:10 Prepared: 02/10/20 07:21 Analyzed: 02/11/20 10:06

Solids: 76.97 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BB00363 Sequence: Y0B1127 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
56-55-3	Benzo(a)anthracene	50	45500	D
50-32-8	Benzo(a)pyrene	50	50000	D
205-99-2	Benzo(b)fluoranthene	50	47900	D
191-24-2	Benzo(g,h,i)perylene	50	27400	D
207-08-9	Benzo(k)fluoranthene	50	38300	D
218-01-9	Chrysene	50	44700	D
193-39-5	Indeno(1,2,3-cd)pyrene	50	29200	D
85-01-8	Phenanthrene	50	60900	D
129-00-0	Pyrene	50	58800	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2130	1020	48.0	20 - 108	D
SURR: Phenol-d5	2130	1040	49.0	23 - 114	D
SURR: Nitrobenzene-d5	1060	703	66.0	22 - 108	D
SURR: 2-Fluorobiphenyl	1060	724	68.0	21 - 113	D
SURR: 2,4,6-Tribromophenol	2130	1870	88.0	19 - 110	D
SURR: Terphenyl-d14	1060	895	84.0	24 - 116	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	887310	4.8	819990	4.8	
ISTD: Naphthalene-d8	3667431	5.75	3574569	5.74	
ISTD: Acenaphthene-d10	2324768	7.24	2127881	7.24	
ISTD: Phenanthrene-d10	4700474	9.17	4393448	9.17	
ISTD: Chrysene-d12	5572925	14.56	4923971	14.56	
ISTD: Perylene-d12	6960131	17.67	5758184	17.67	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021120A\SV628964.D Vial: 5
Acq On : 11 Feb 2020 10:06 am Operator: OW
Sample : 20B0093-02RE2 Inst : BNA#6
Misc : QBSV6021120A RE 50X 8270 COMP Multiplr: 50.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:33 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

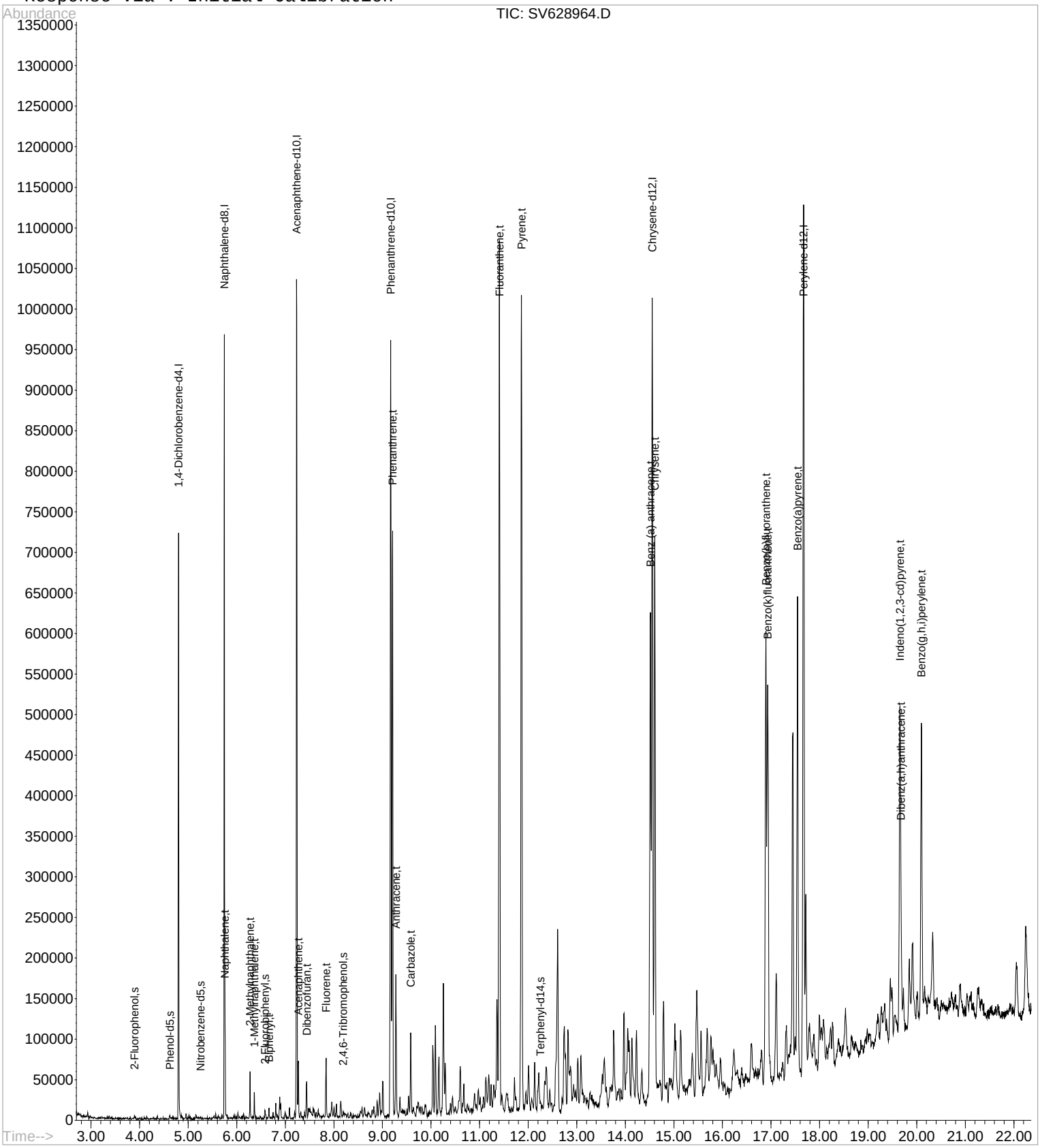
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	887310	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.75	136	3667431	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2324768	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	4700474	40.00	ug/mL	-0.16
80) Chrysene-d12	14.56	240	5572925	40.00	ug/mL	-0.16
92) Perylene-d12	17.67	264	6960131	40.00	ug/mL	-0.15
System Monitoring Compounds						
4) 2-Fluorophenol	3.89	112	15663m	0.48	ug/mL	-0.09
Spiked Amount 75.000	Range 15 - 87		Recovery =	0.64%#		
5) Phenol-d5	4.62	99	20064	0.49	ug/mL	-0.04
Spiked Amount 75.000	Range 10 - 100		Recovery =	0.65%#		
22) Nitrobenzene-d5	5.25	82	10575m	0.33	ug/mL	-0.09
Spiked Amount 50.000	Range 26 - 120		Recovery =	0.66%#		
45) 2-Fluorobiphenyl	6.58	172	27176	0.34	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery =	0.68%#		
67) 2,4,6-Tribromophenol	8.19	330	10512m	0.88	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery =	1.17%#		
82) Terphenyl-d14	12.26	244	57004m	0.42	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery =	0.84%#		
Target Compounds						Qvalue
32) Naphthalene	5.76	128	312473	3.31	ug/mL#	95
37) 1-Methylnaphthalene	6.36	141	75056	1.12	ug/mL	94
38) 2-Methylnaphthalene	6.28	142	137716	2.07	ug/mL	94
42) Biphenyl	6.66	153	14906m	0.39	ug/mL	
52) Acenaphthene	7.27	154	173493	2.55	ug/mL	97
54) Dibenzofuran	7.44	168	168342	1.60	ug/mL	99
59) Fluorene	7.84	166	220553	2.60	ug/mL	99
73) Phenanthrene	9.21	178	3589775	28.58	ug/mL	99
74) Anthracene	9.28	178	904221m	6.80	ug/mL	
75) Carbazole	9.58	167	550687	3.99	ug/mL#	96
78) Fluoranthene	11.41	202	6852435	46.15	ug/mL	100
81) Pyrene	11.86	202	5693474	27.62	ug/mL#	95
85) Benz (a) anthracene	14.52	228	3993172m	21.36	ug/mL	
87) Chrysene	14.61	228	3781718	21.00	ug/mL	97
89) Benzo(b)fluoranthene	16.90	252	3812789	22.47	ug/mL#	93
90) Benzo(k)fluoranthene	16.93	252	3629546m	17.96	ug/mL	
91) Benzo(a)pyrene	17.55	252	3963679m	23.47	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.66	276	2921507	13.70	ug/mL#	78
94) Dibenz(a,h)anthracene	19.68	278	1003507	6.58	ug/mL#	81
95) Benzo(g,h,i)perylene	20.10	276	2594112	12.88	ug/mL#	90

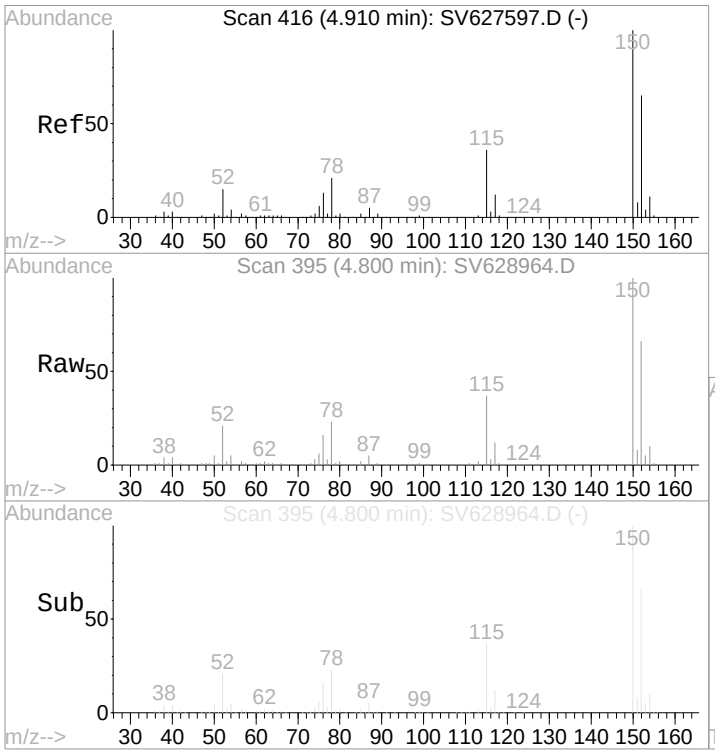
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021120A\SV628964.D Vial: 5
Acq On : 11 Feb 2020 10:06 am Operator: OW
Sample : 20B0093-02RE2 Inst : BNA#6
Misc : QBSV6021120A RE 50X 8270 COMP Multiplr: 50.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:33 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

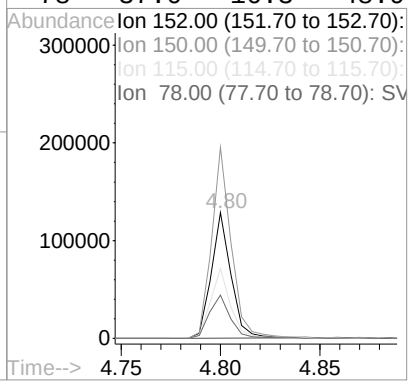


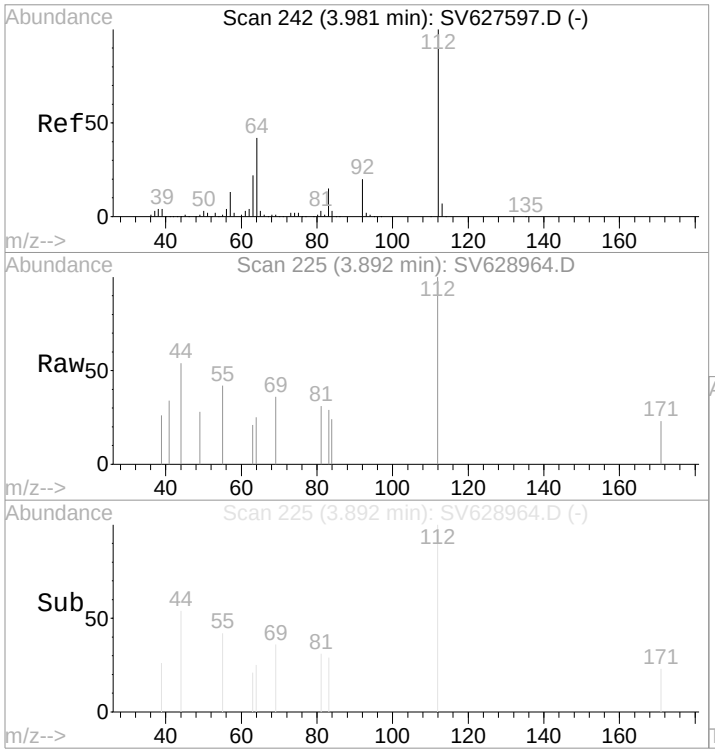


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 395
Delta R.T. -0.11 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:152 Resp: 887310

Ion	Ratio	Lower	Upper
152	100		
150	150.9	84.8	254.4
115	56.5	27.5	82.4
78	37.0	16.3	48.9

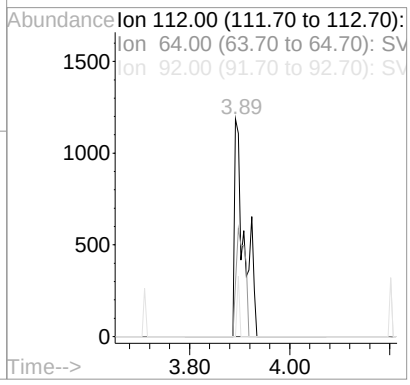


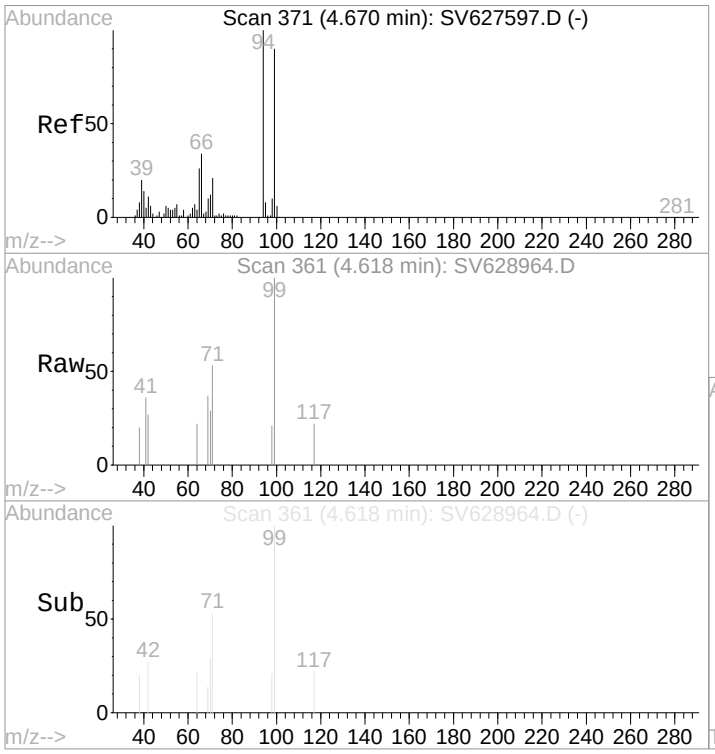


#4
2-Fluorophenol
Concen: N.D. ug/mL m
RT: 3.89 min Scan# 225
Delta R.T. -0.09 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:112 Resp: 15663

Ion	Ratio	Lower	Upper
112	100		
64	0.0	36.6	54.8#
92	0.0	16.2	24.4#

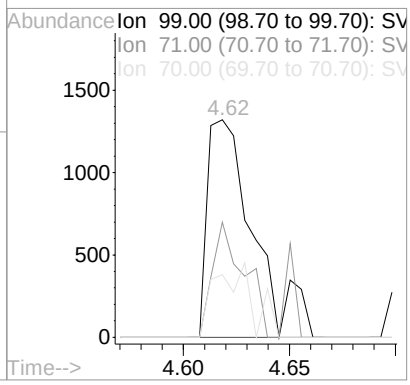


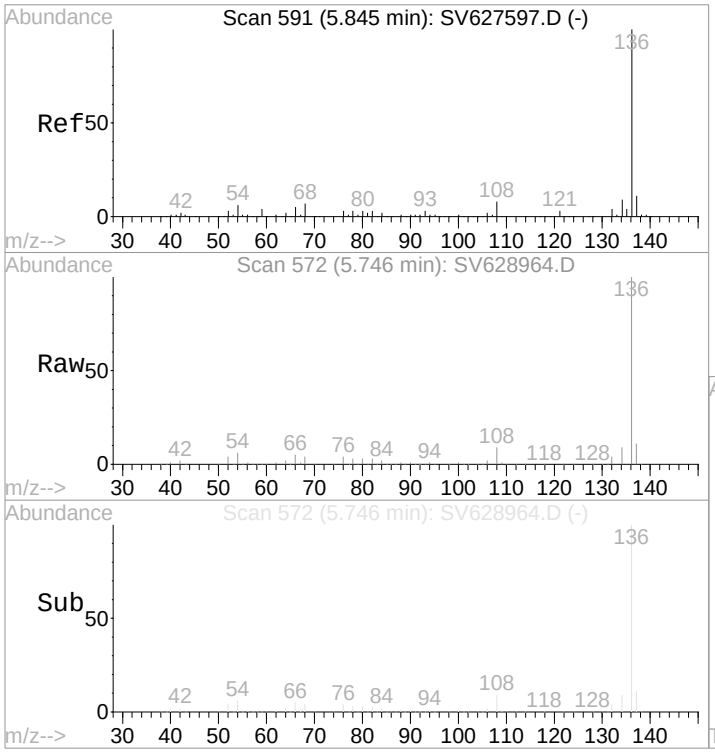


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.62 min Scan# 361
Delta R.T. -0.04 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion: 99 Resp: 20064

Ion	Ratio	Lower	Upper
99	100		
71	0.0	20.5	30.7#
70	0.0	10.3	15.5#

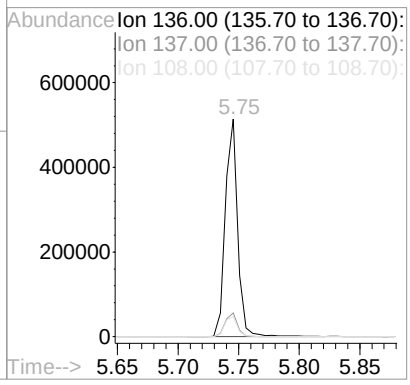


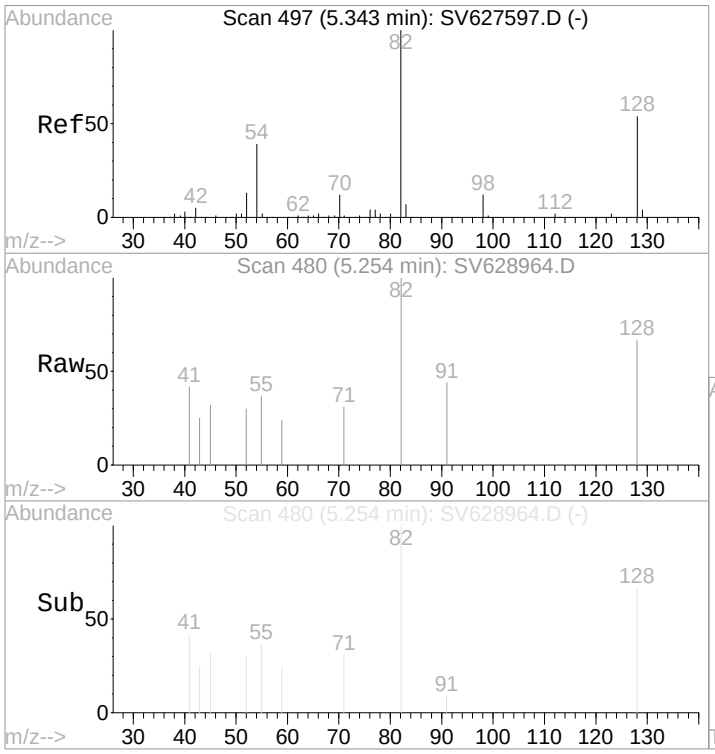


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.75 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:136 Resp: 3667431

Ion	Ratio	Lower	Upper
136	100		
137	11.0	5.7	17.0
108	9.5	4.2	12.4

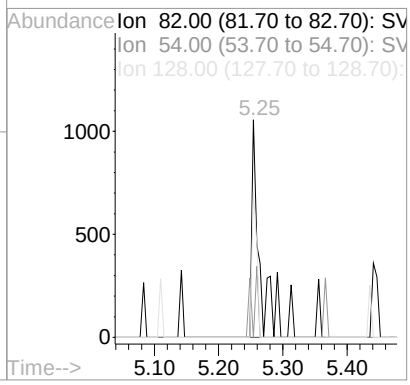


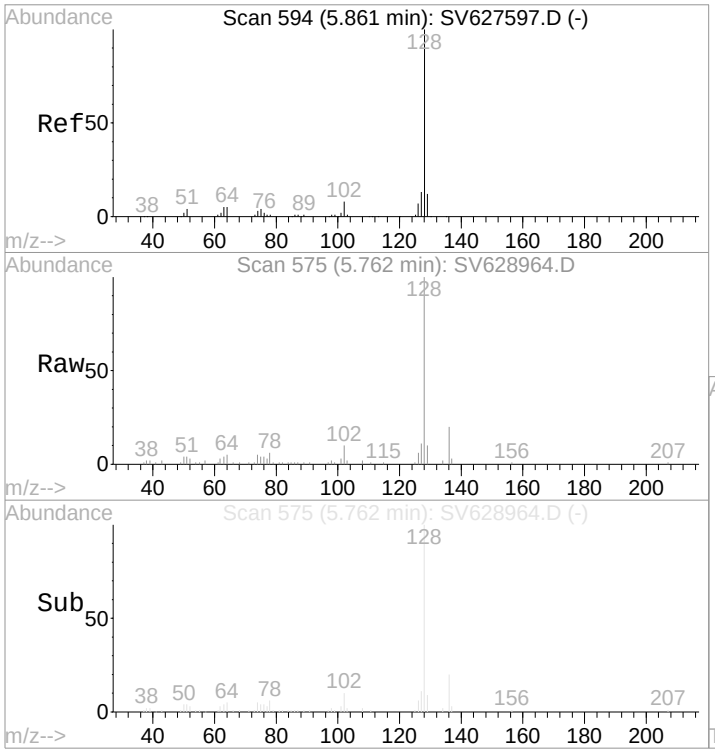


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL m
RT: 5.25 min Scan# 480
Delta R.T. -0.09 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion: 82 Resp: 10575

Ion	Ratio	Lower	Upper
82	100		
54	0.0	32.4	48.6#
128	0.0	41.3	61.9#

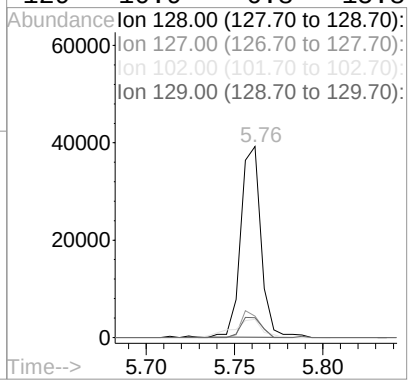


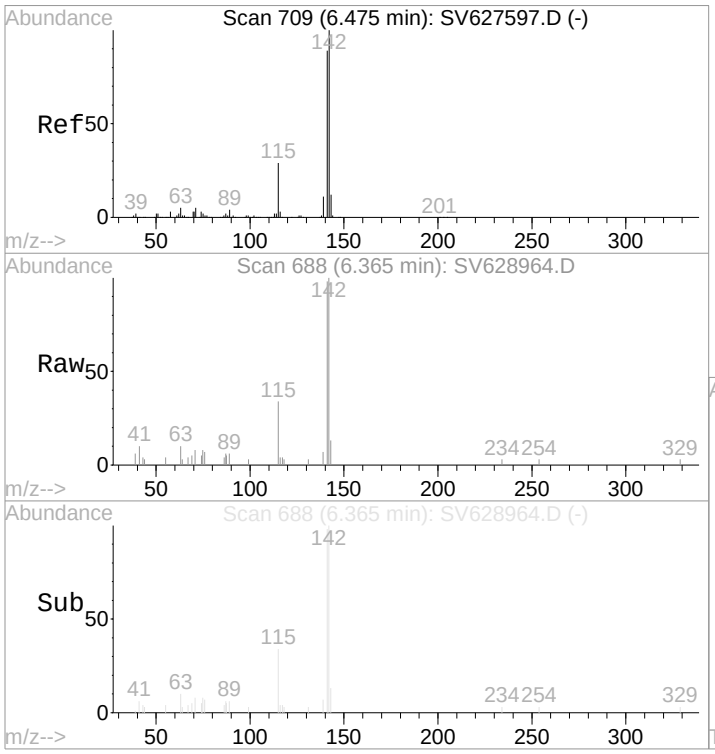


#32
Naphthalene
Concen: 3.31 ug/mL
RT: 5.76 min Scan# 575
Delta R.T. -0.10 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:128 Resp: 312473

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.4	15.6
102	13.7	4.1	12.3#
129	10.9	6.8	15.8

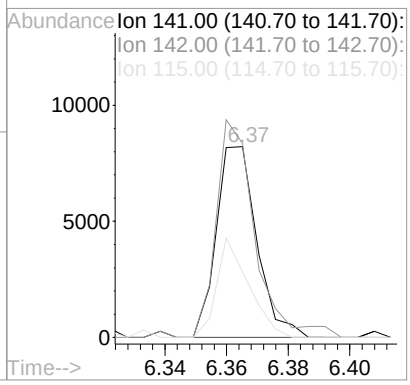


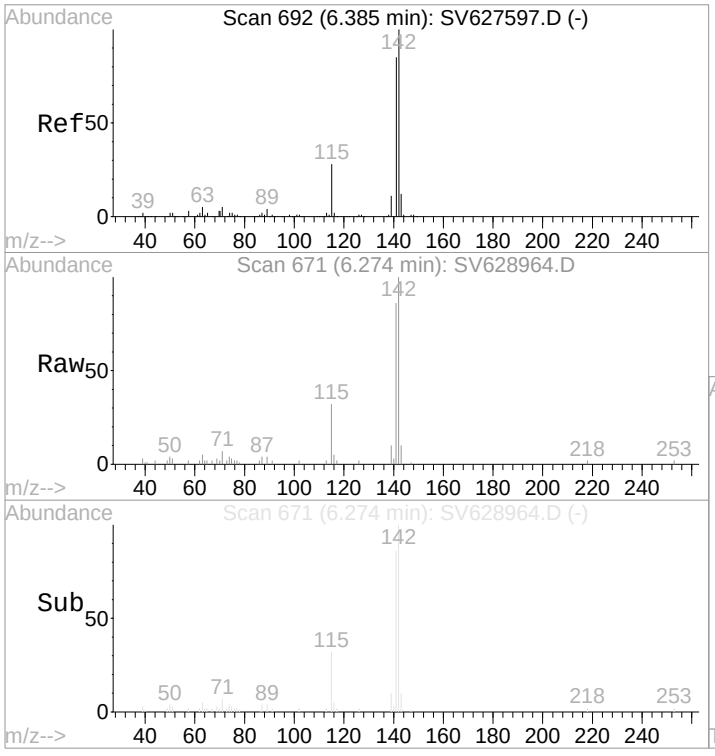


#37
1-Methylnaphthalene
Concen: 1.12 ug/mL
RT: 6.36 min Scan# 688
Delta R.T. -0.11 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:141 Resp: 75056

Ion	Ratio	Lower	Upper
141	100		
142	108.8	90.6	135.8
115	41.2	28.2	42.4

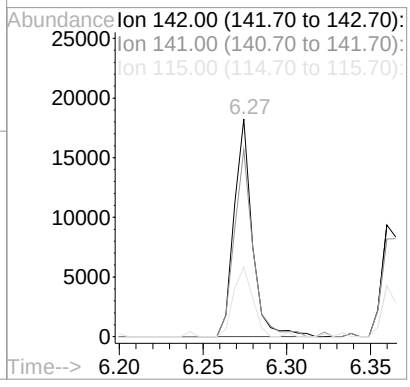


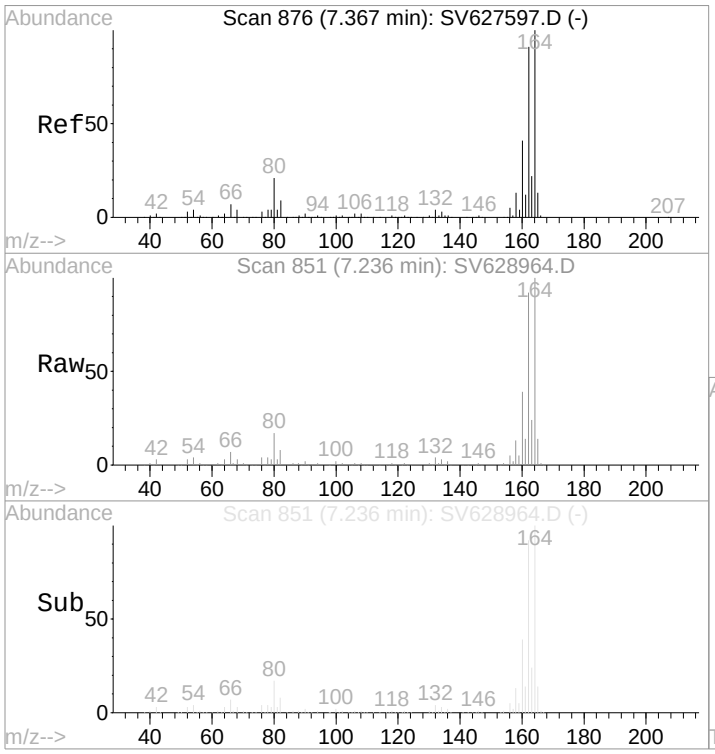


#38
2-Methylnaphthalene
Concen: 2.07 ug/mL
RT: 6.28 min Scan# 671
Delta R.T. -0.11 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:142 Resp: 137716

Ion	Ratio	Lower	Upper
142	100		
141	88.4	67.4	101.2
115	34.6	23.4	35.0

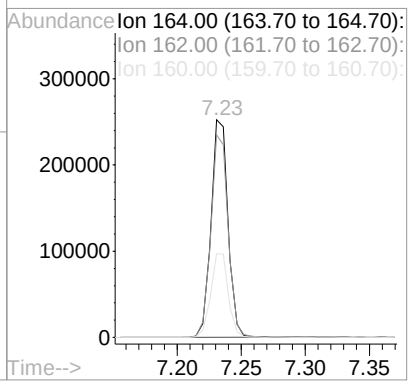


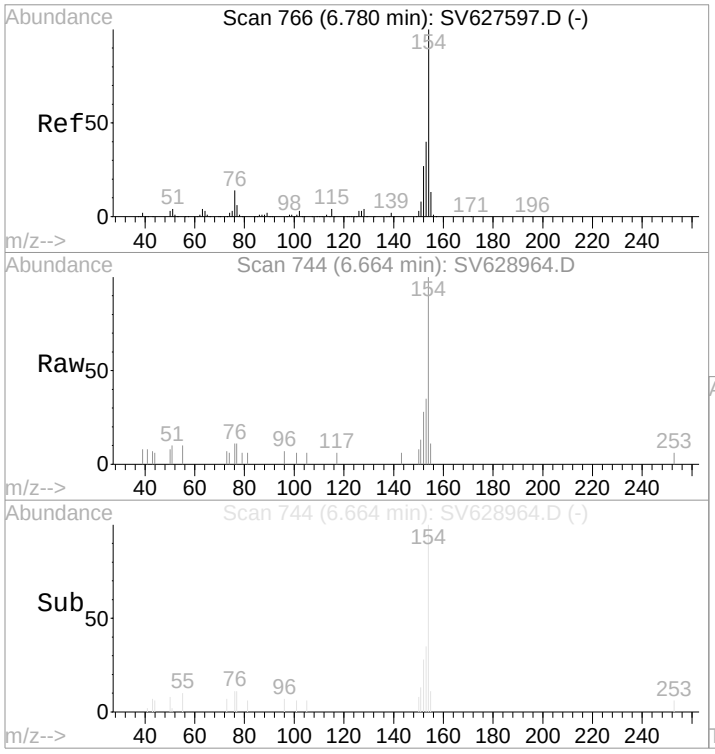


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.24 min Scan# 851
Delta R.T. -0.13 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:164 Resp: 2324768

Ion	Ratio	Lower	Upper
164	100		
162	94.5	46.5	139.3
160	39.6	20.9	62.7

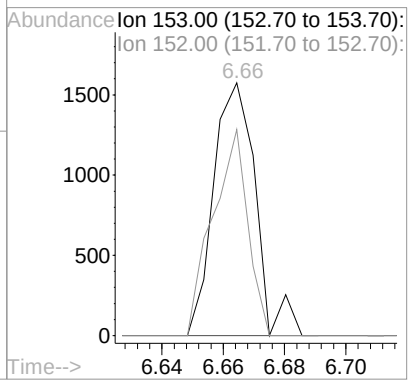


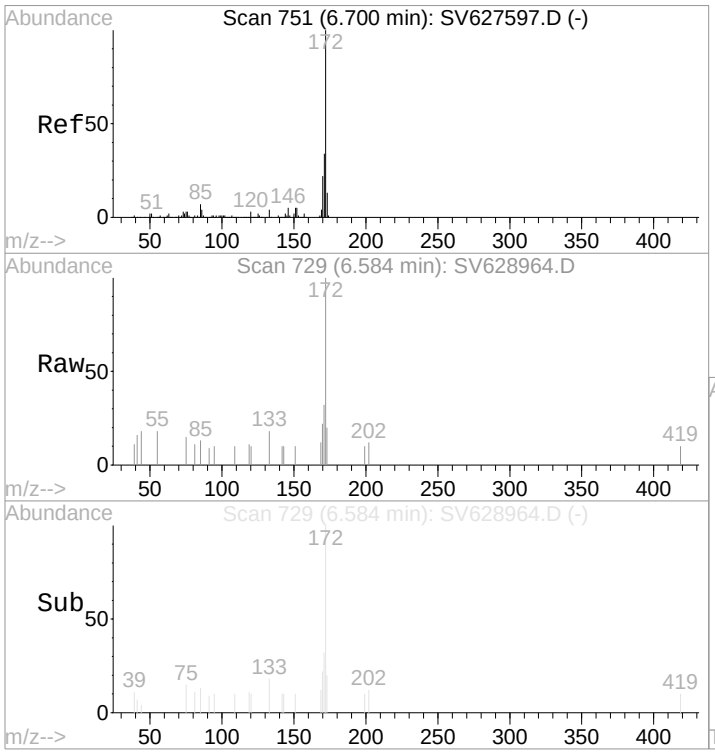


#42
Biphenyl
Concen: 0.39 ug/mL m
RT: 6.66 min Scan# 744
Delta R.T. -0.12 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:153 Resp: 14906

Ion	Ratio	Lower	Upper
153	100		
152	0.0	54.2	81.4#

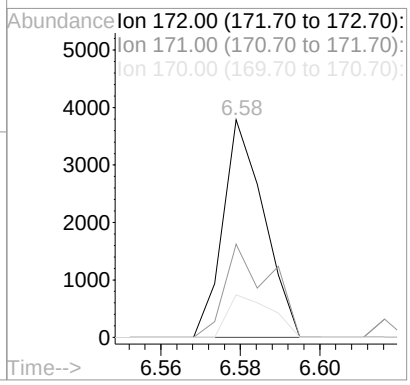


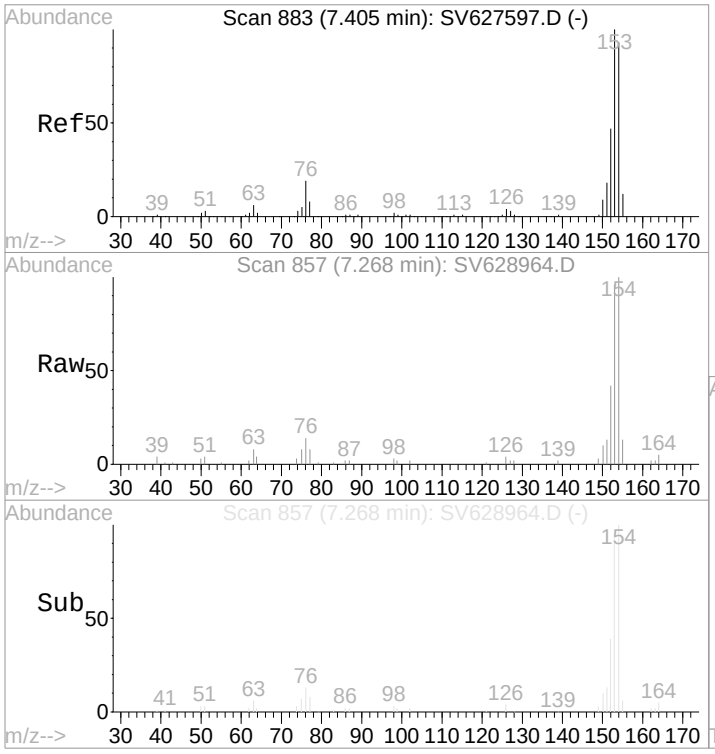


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 729
Delta R.T. -0.12 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:172 Resp: 27176

Ion	Ratio	Lower	Upper
172	100		
171	0.0	27.2	40.8#
170	0.0	18.1	27.1#

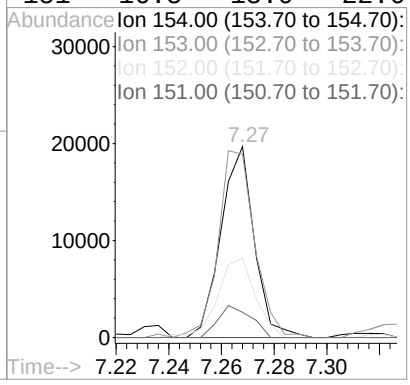


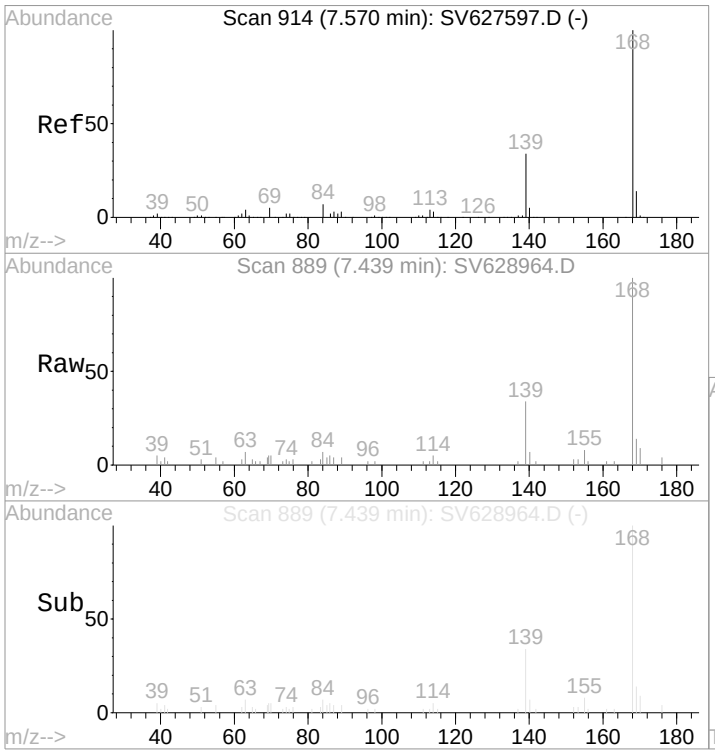


#52
Acenaphthene
Concen: 2.55 ug/mL
RT: 7.27 min Scan# 857
Delta R.T. -0.13 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:154 Resp: 173493

Ion	Ratio	Lower	Upper
154	100		
153	105.9	86.2	129.4
152	47.1	40.4	60.6
151	16.5	15.0	22.6

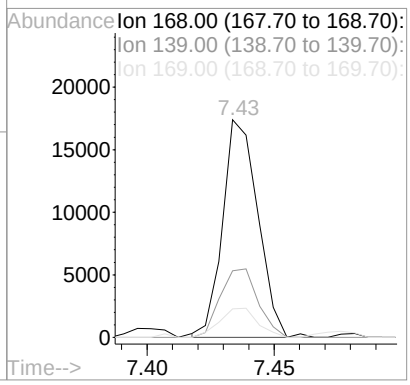


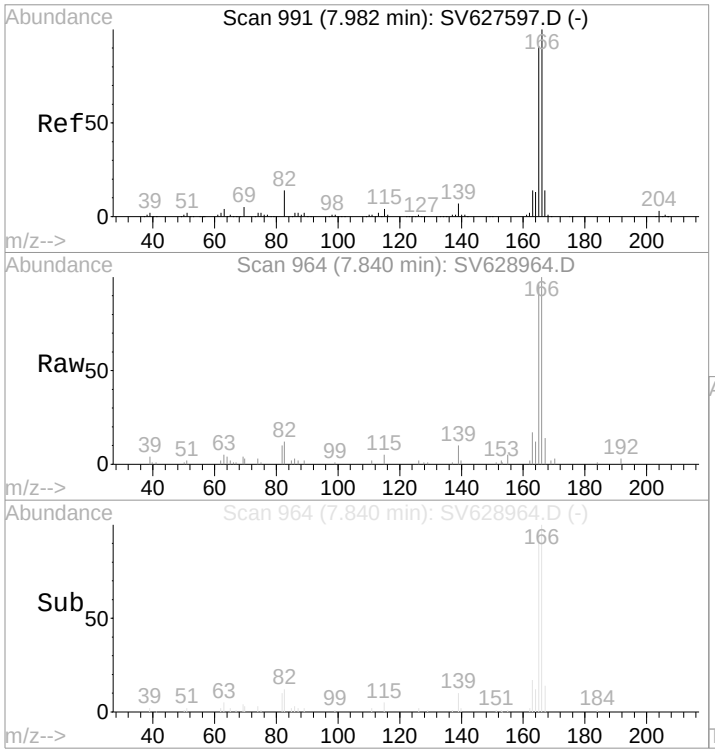


#54
Dibenzofuran
Concen: 1.60 ug/mL
RT: 7.44 min Scan# 889
Delta R.T. -0.13 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:168 Resp: 168342

Ion	Ratio	Lower	Upper
168	100		
139	33.5	26.6	40.0
169	14.5	11.0	16.4

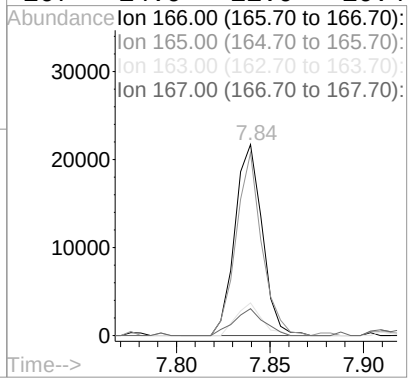


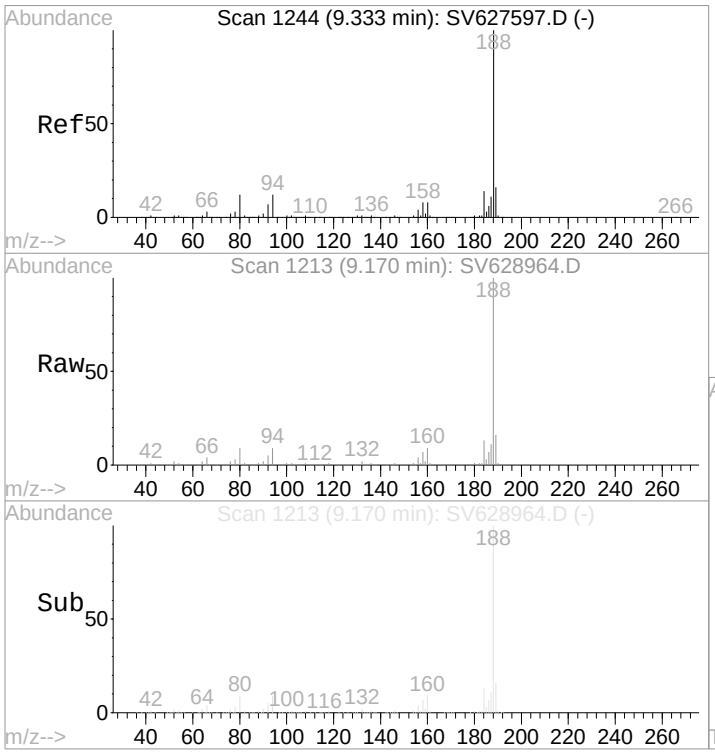


#59
Fluorene
Concen: 2.60 ug/mL
RT: 7.84 min Scan# 964
Delta R.T. -0.14 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:166 Resp: 220553

Ion	Ratio	Lower	Upper
166	100		
165	90.7	72.6	109.0
163	15.9	11.5	17.3
167	14.9	11.0	16.4

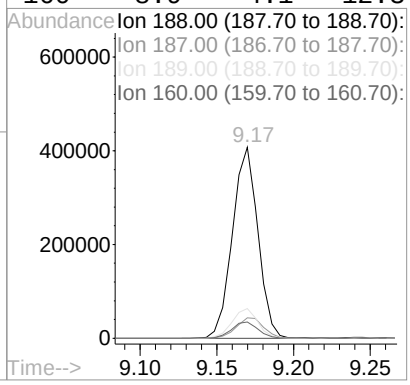


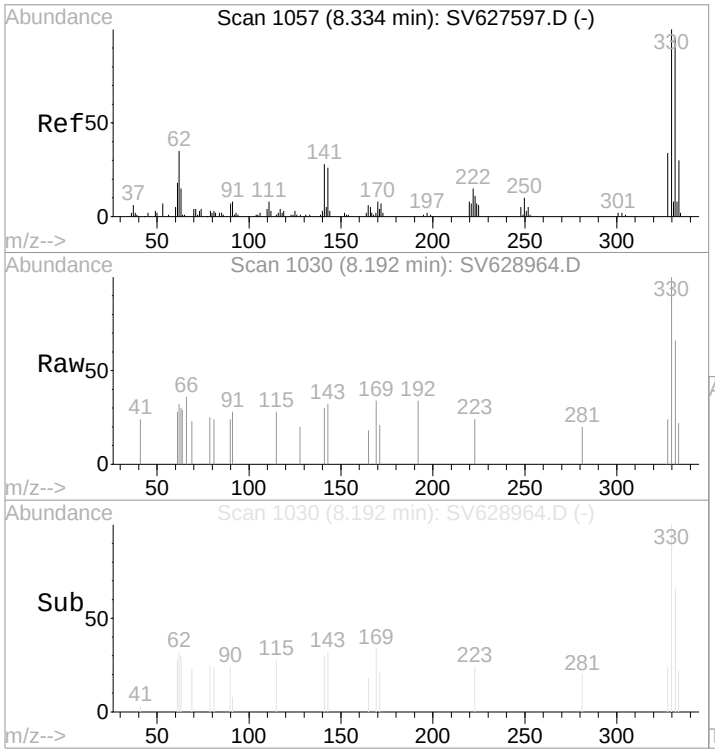


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.17 min Scan# 1213
Delta R.T. -0.16 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:188 Resp: 4700474

Ion	Ratio	Lower	Upper
188	100		
187	11.3	8.4	12.6
189	15.5	8.0	23.8
160	8.9	4.1	12.3

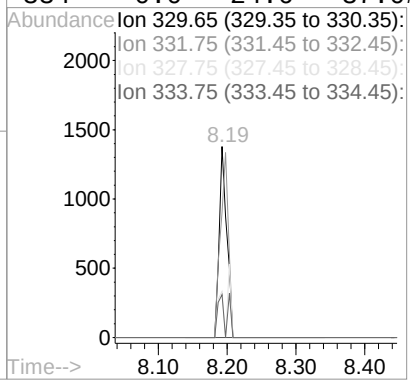


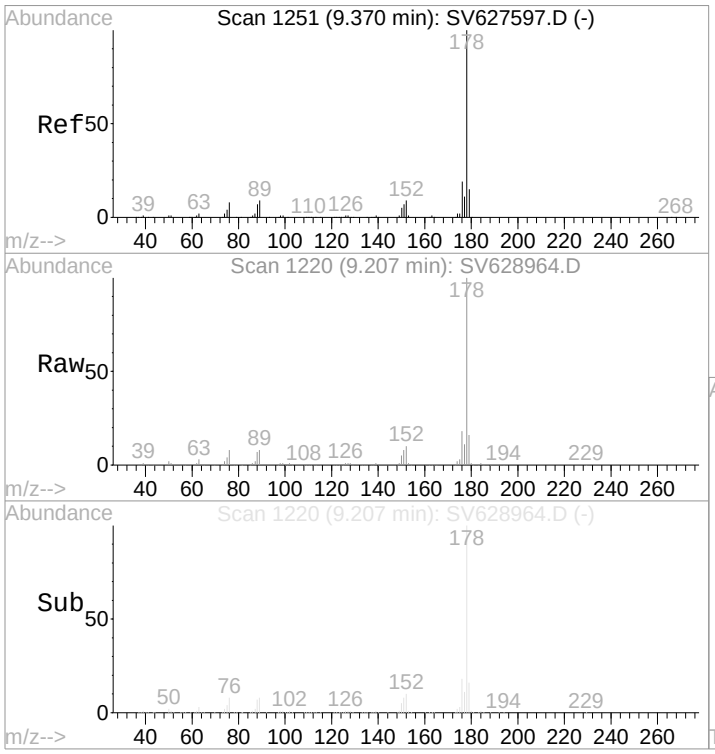


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL m
RT: 8.19 min Scan# 1030
Delta R.T. -0.14 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:330 Resp: 10512

Ion	Ratio	Lower	Upper
330	100		
332	0.0	74.2	111.2#
328	0.0	28.5	42.7#
334	0.0	24.6	37.0#

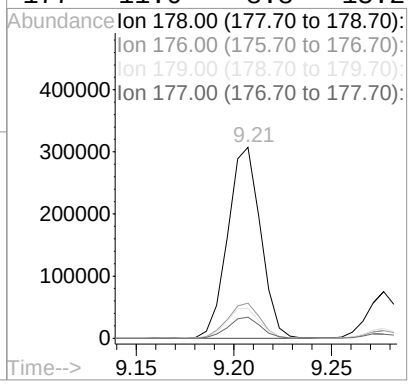


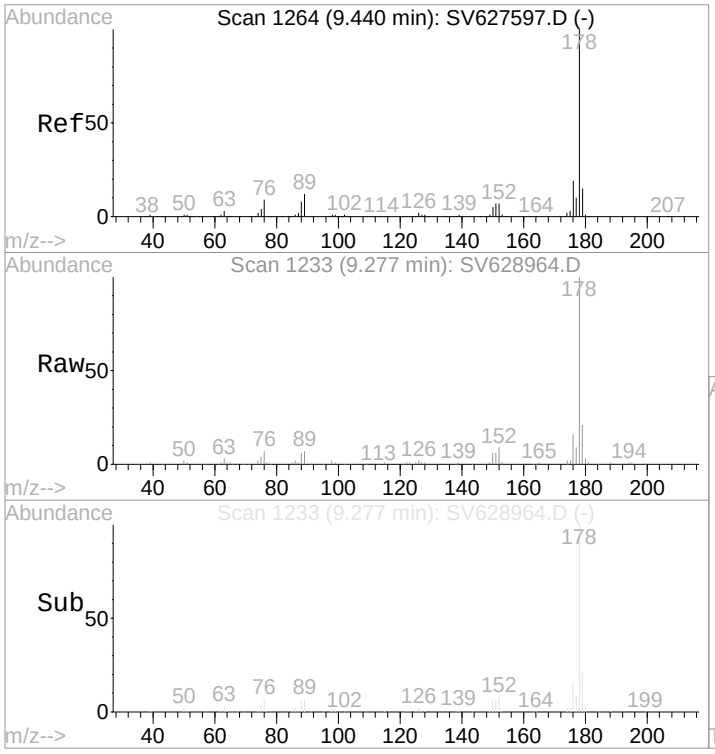


#73
Phenanthrene
Concen: 28.58 ug/mL
RT: 9.21 min Scan# 1220
Delta R.T. -0.16 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:178 Resp: 3589775

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.2	22.8
179	16.0	12.5	18.7
177	11.0	8.8	13.2

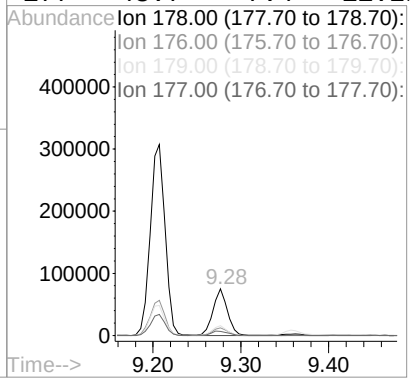


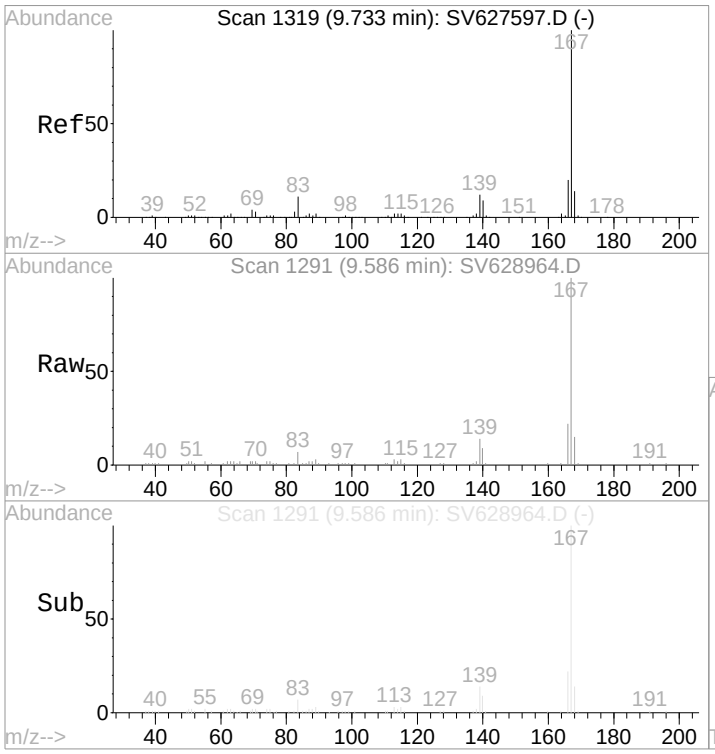


#74
Anthracene
Concen: 6.80 ug/mL m
RT: 9.28 min Scan# 1233
Delta R.T. -0.16 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:178 Resp: 904221

Ion	Ratio	Lower	Upper
178	100		
176	72.8	14.5	21.7#
179	63.1	12.5	18.7#
177	43.7	7.4	11.2#

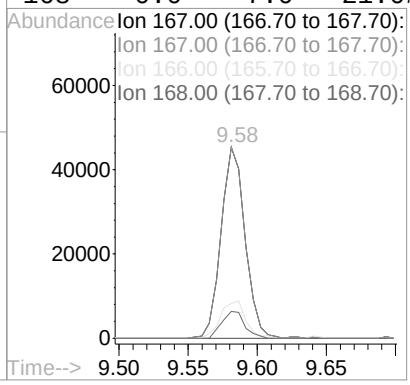


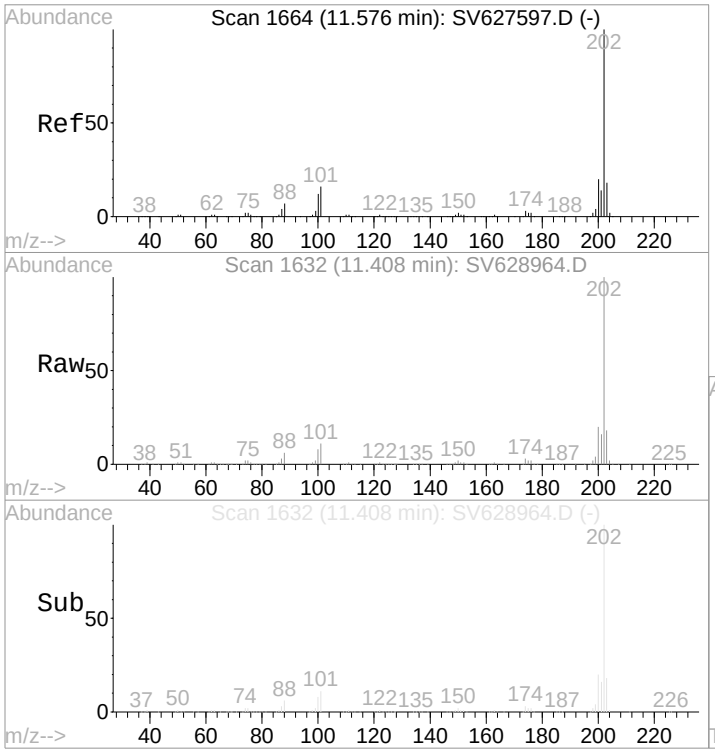


#75
Carbazole
Concen: 3.99 ug/mL
RT: 9.58 min Scan# 1291
Delta R.T. -0.15 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:167 Resp: 550687

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	0.0	0.0	0.0
168	0.0	7.0	21.0#

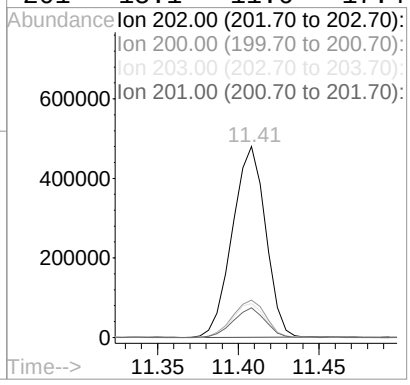


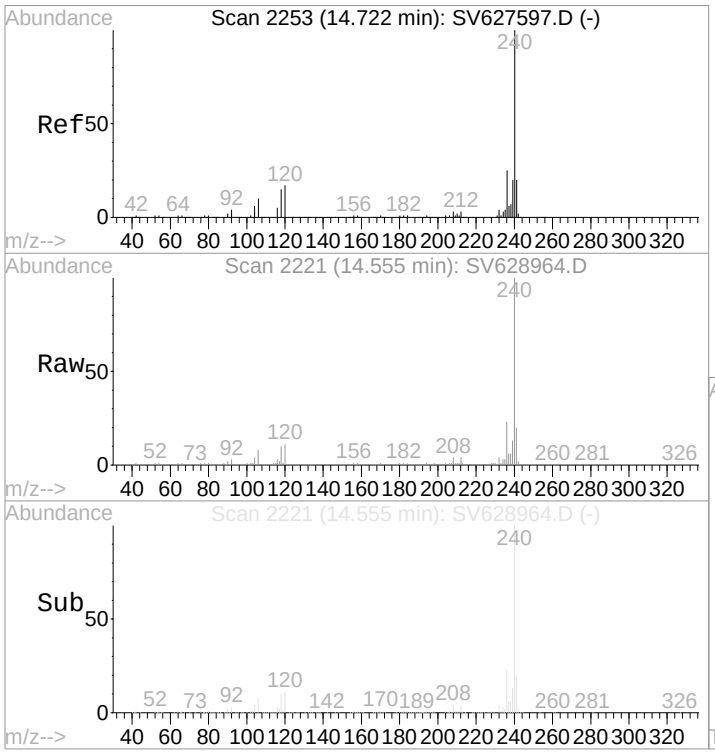


#78
Fluoranthene
Concen: 46.15 ug/mL
RT: 11.41 min Scan# 1632
Delta R.T. -0.17 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:202 Resp: 6852435

Ion	Ratio	Lower	Upper
202	100		
200	19.6	15.8	23.6
203	17.6	14.1	21.1
201	15.1	11.6	17.4

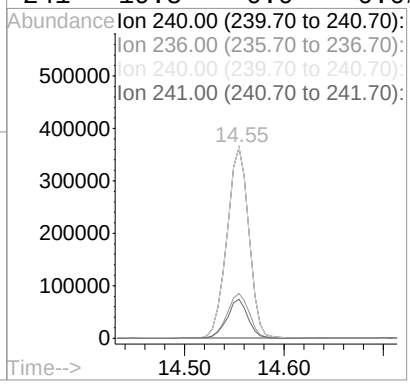


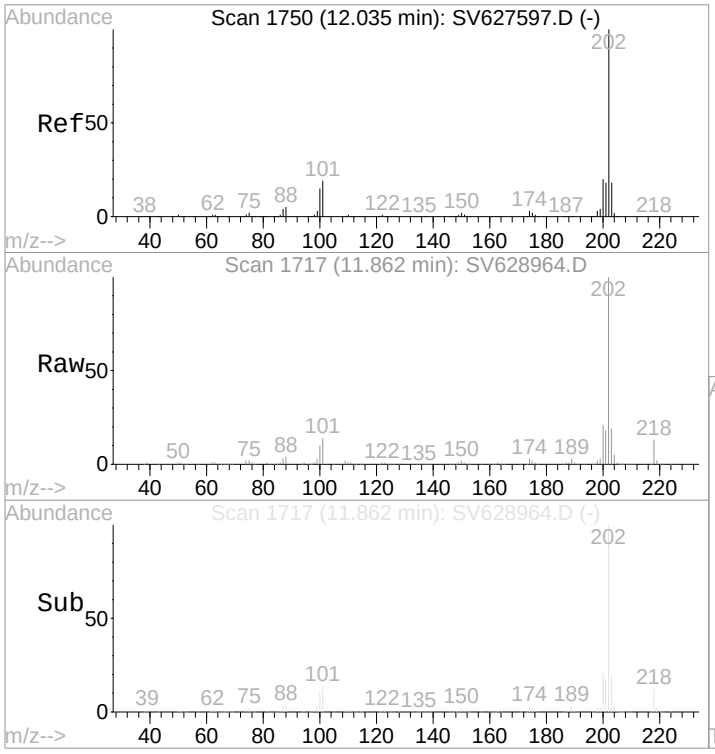


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.56 min Scan# 2221
Delta R.T. -0.16 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:240 Resp: 5572925

Ion	Ratio	Lower	Upper
240	100		
236	23.8	12.2	36.4
240	100.0	50.0	150.0
241	19.5	0.0	0.0#

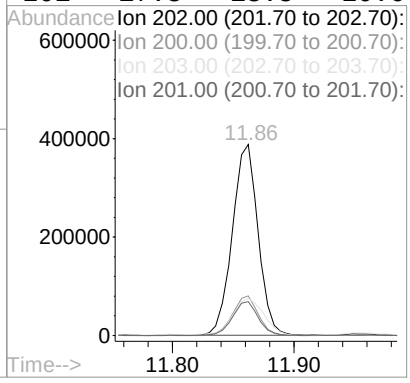


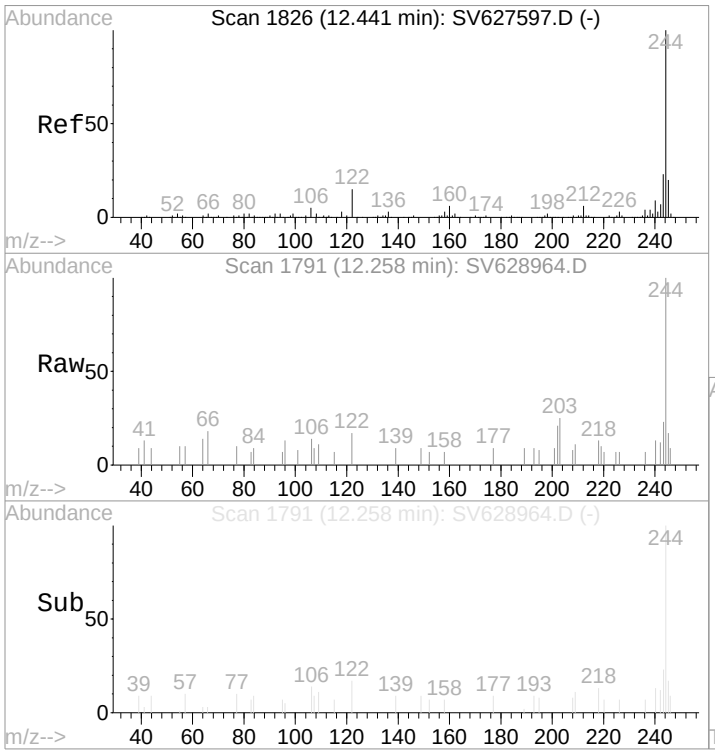


#81
Pyrene
Concen: 27.62 ug/mL
RT: 11.86 min Scan# 1717
Delta R.T. -0.17 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:202 Resp: 5693474

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.2	24.2
203	23.9	14.6	22.0#
201	17.8	13.8	20.6

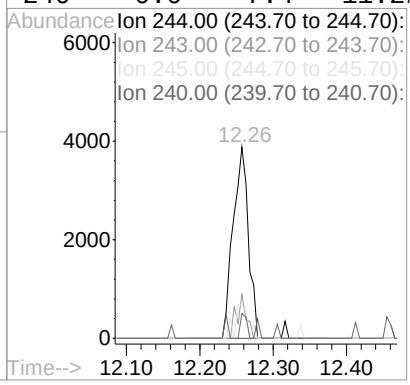


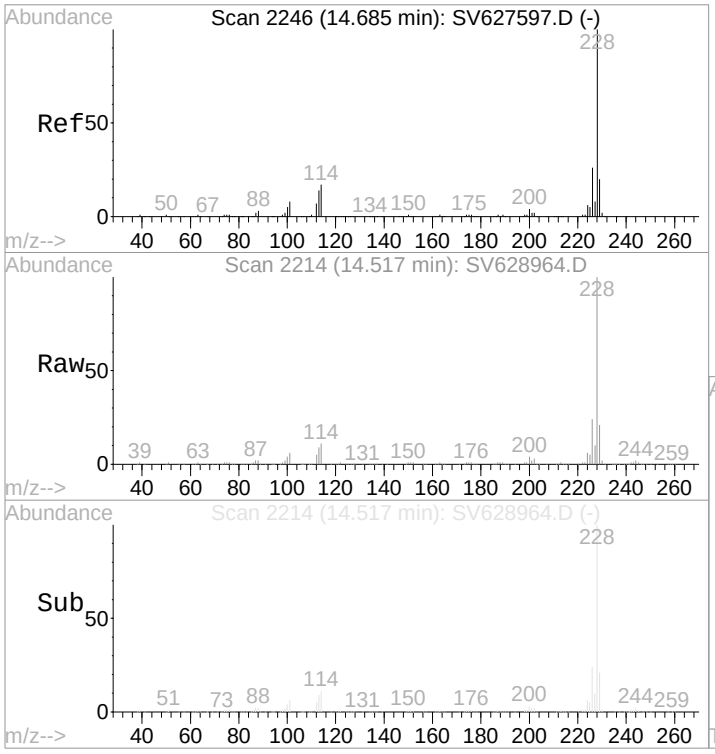


#82
Terphenyl-d14
Concen: 27.62 ug/mL m
RT: 12.26 min Scan# 1791
Delta R.T. -0.18 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:244 Resp: 57004

Ion	Ratio	Lower	Upper
244	100		
243	0.0	18.4	27.6#
245	0.0	15.4	23.0#
240	0.0	7.4	11.2#

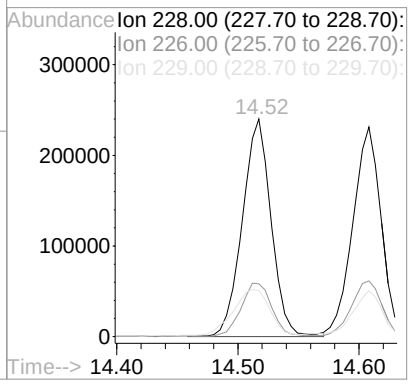


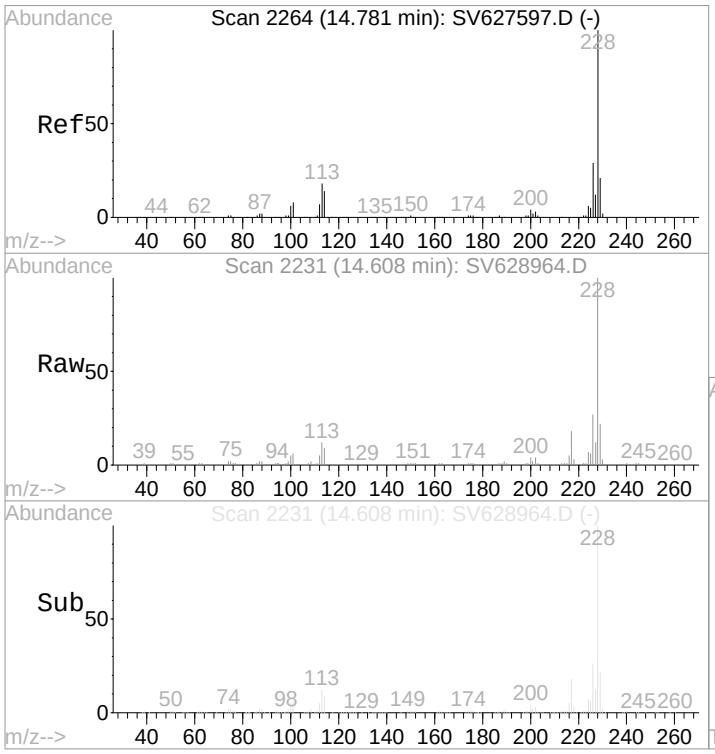


#85
Benz (a) anthracene
Concen: 21.36 ug/mL m
RT: 14.52 min Scan# 2214
Delta R.T. -0.16 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:228 Resp: 3993172

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.3	31.9
229	20.2	16.4	24.6

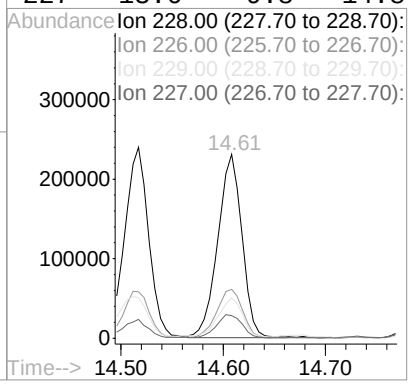


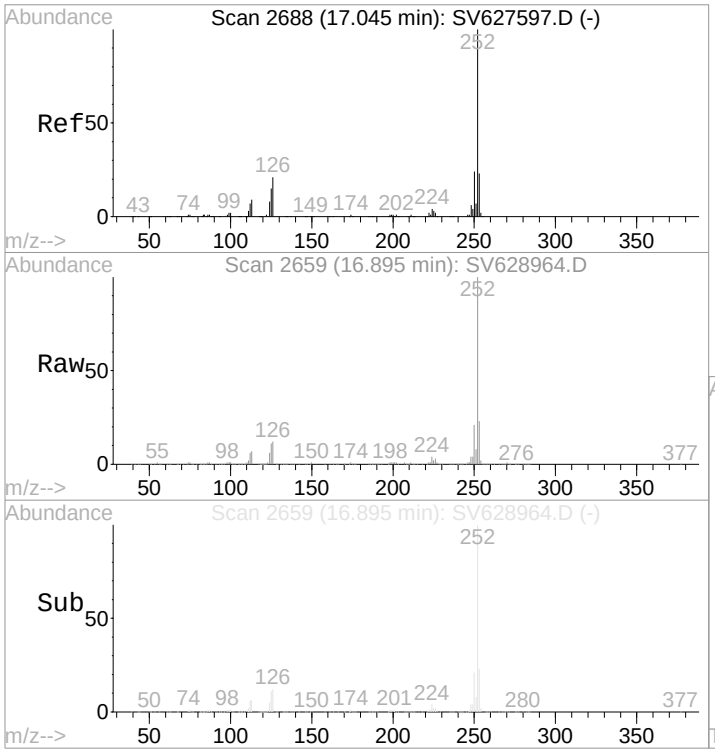


#87
Chrysene
Concen: 21.00 ug/mL
RT: 14.61 min Scan# 2231
Delta R.T. -0.16 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:228 Resp: 3781718

Ion	Ratio	Lower	Upper
228	100		
226	28.0	23.6	35.4
229	21.3	15.5	23.3
227	13.6	9.8	14.8

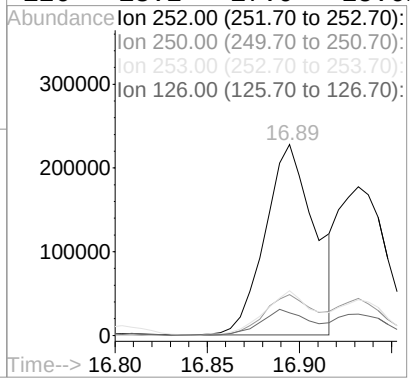


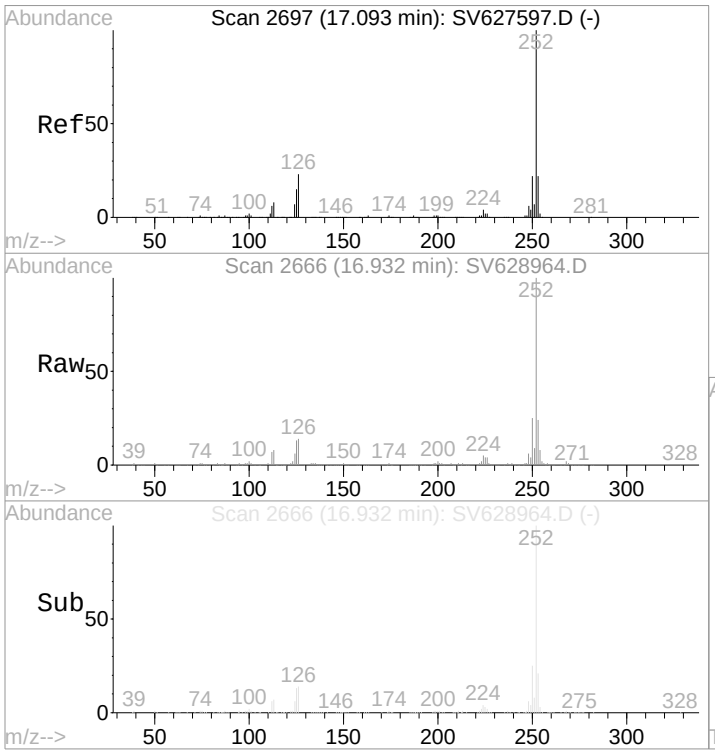


#89
Benzo(b)fluoranthene
Concen: 22.47 ug/mL
RT: 16.90 min Scan# 2659
Delta R.T. -0.14 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:252 Resp: 3812789

Ion	Ratio	Lower	Upper
252	100		
250	22.0	18.2	27.4
253	23.6	17.9	26.9
126	13.2	17.0	25.6#

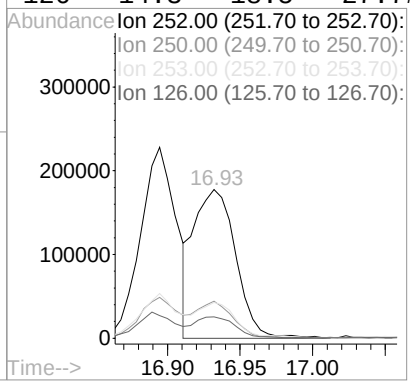


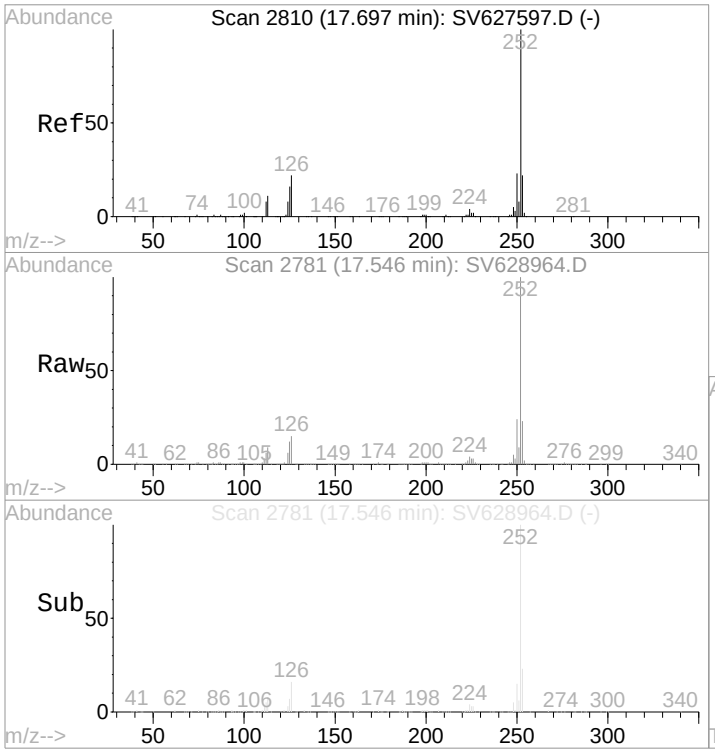


#90
Benzo(k)fluoranthene
Concen: 17.96 ug/mL m
RT: 16.93 min Scan# 2666
Delta R.T. -0.15 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:252 Resp: 3629546

Ion	Ratio	Lower	Upper
252	100		
250	23.1	17.2	25.8
253	24.8	18.1	27.1
126	14.3	18.5	27.7#

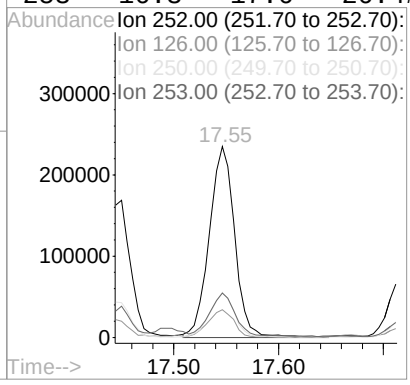


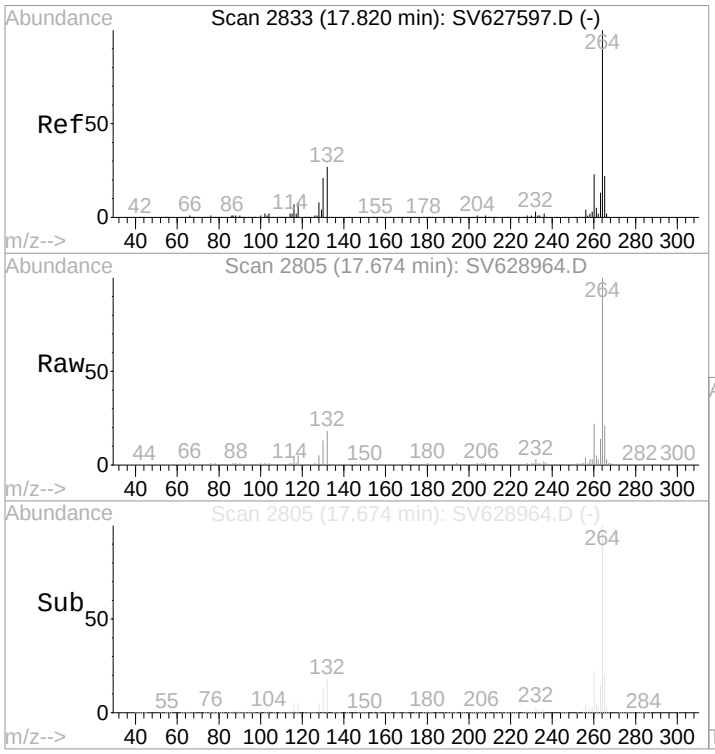


#91
Benzo(a)pyrene
Concen: 23.47 ug/mL m
RT: 17.55 min Scan# 2781
Delta R.T. -0.14 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:252 Resp: 3963679

Ion	Ratio	Lower	Upper
252	100		
126	8.6	18.4	27.6#
250	19.2	17.8	26.8
253	16.3	17.6	26.4#

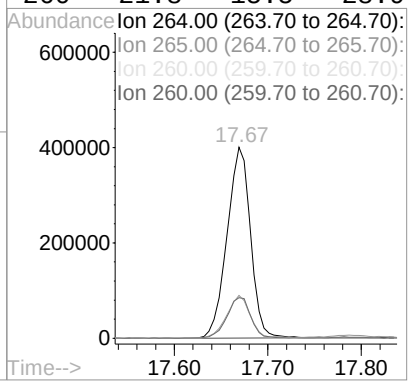


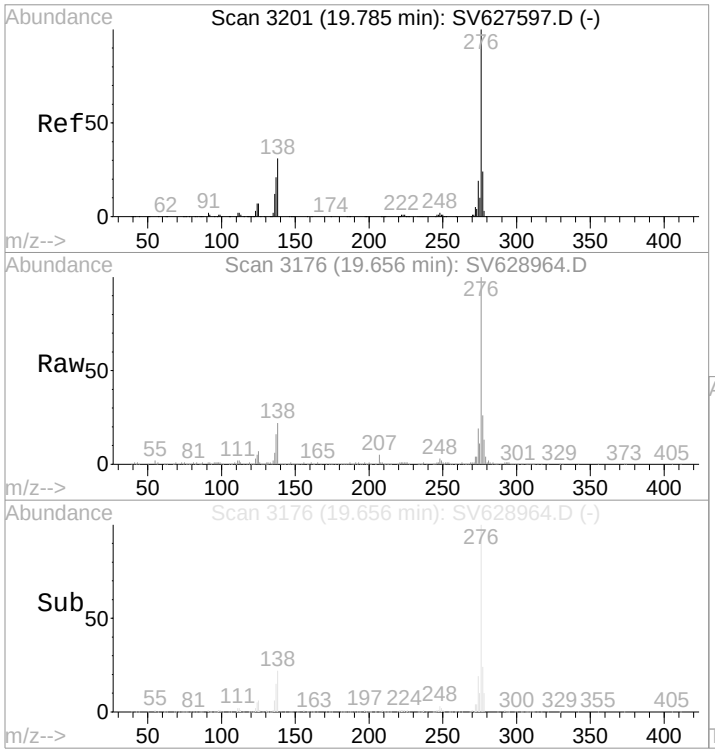


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.67 min Scan# 2805
Delta R.T. -0.15 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:264 Resp: 6960131

Ion	Ratio	Lower	Upper
264	100		
265	0.0	0.0	0.0
260	21.8	17.8	26.6
260	21.8	15.5	28.9

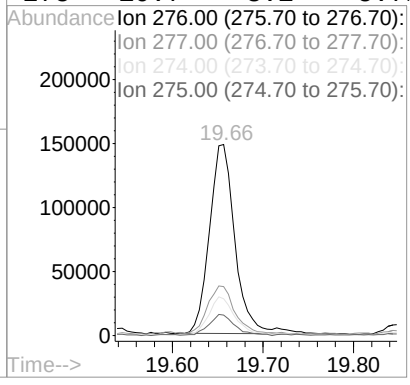


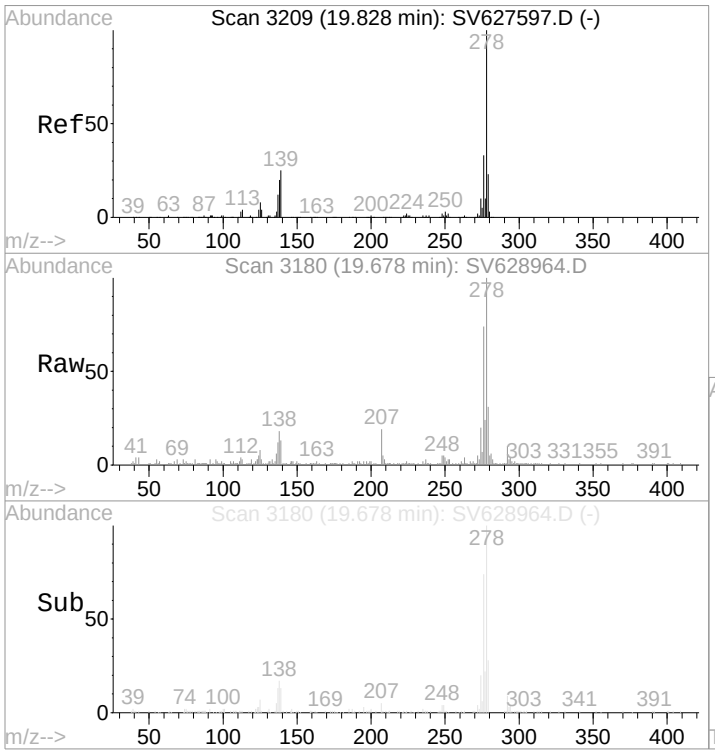


#93
Indeno(1,2,3-cd)pyrene
Concen: 13.70 ug/mL
RT: 19.66 min Scan# 3176
Delta R.T. -0.12 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:276 Resp: 2921507

Ion	Ratio	Lower	Upper
276	100		
277	28.3	12.9	19.3#
274	19.3	10.8	16.2#
275	10.7	3.1	5.7#

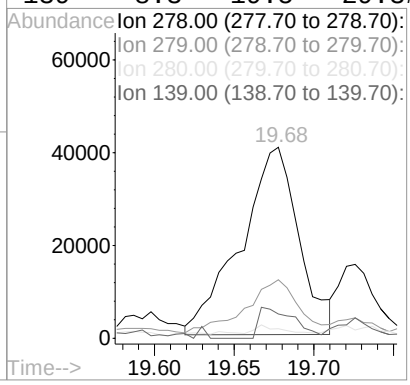


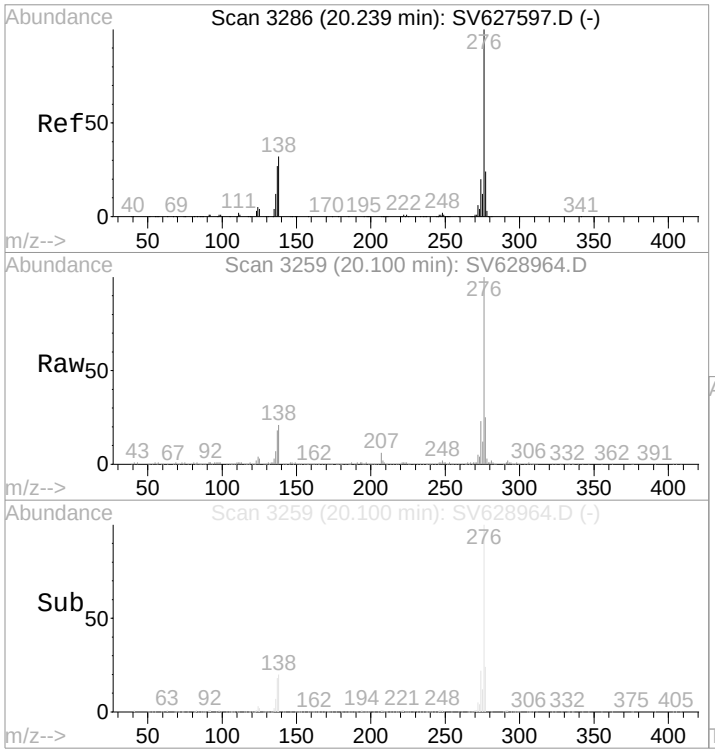


#94
Dibenz(a,h)anthracene
Concen: 6.58 ug/mL
RT: 19.68 min Scan# 3180
Delta R.T. -0.14 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:278 Resp: 1003507

Ion	Ratio	Lower	Upper
278	100		
279	25.8	18.5	27.7
280	0.0	0.0	5.0
139	8.3	19.5	29.3#

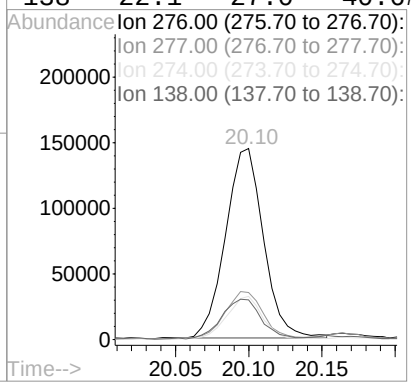




#95
Benzo(g,h,i)perylene
Concen: 12.88 ug/mL
RT: 20.10 min Scan# 3259
Delta R.T. -0.12 min
Lab File: SV628964.D
Acq: 11 Feb 2020 10:06 am

Tgt Ion:276 Resp: 2594112

Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.1	28.7
274	21.0	0.0	42.2
138	22.1	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-1 (11-13)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-02RE3	File ID:	SV628967.D
Sampled:	02/04/20 10:10	Prepared:	02/10/20 07:21	Analyzed:	02/11/20 11:41
Solids:	76.97	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BB00363	Sequence:	Y0B1127	Calibration:	YL90003
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
206-44-0	Fluoranthene	100	112000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2130	0.00		20 - 108	D
SURR: Phenol-d5	2130	1020	48.0	23 - 114	D
SURR: Nitrobenzene-d5	1060	0.00		22 - 108	D
SURR: 2-Fluorobiphenyl	1060	937	88.0	21 - 113	D
SURR: 2,4,6-Tribromophenol	2130	0.00		19 - 110	D
SURR: Terphenyl-d14	1060	1190	112	24 - 116	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	909903	4.8	819990	4.8	
ISTD: Naphthalene-d8	3599265	5.75	3574569	5.74	
ISTD: Acenaphthene-d10	2238280	7.24	2127881	7.24	
ISTD: Phenanthrene-d10	4629471	9.17	4393448	9.17	
ISTD: Chrysene-d12	5335683	14.56	4923971	14.56	
ISTD: Perylene-d12	6197779	17.68	5758184	17.67	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021120A\SV628967.D Vial: 8
Acq On : 11 Feb 2020 11:41 am Operator: OW
Sample : 20B0093-02RE3 Inst : BNA#6
Misc : QBSV6021120A RE 100X 8270 COMP Multiplr: 100.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:40 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

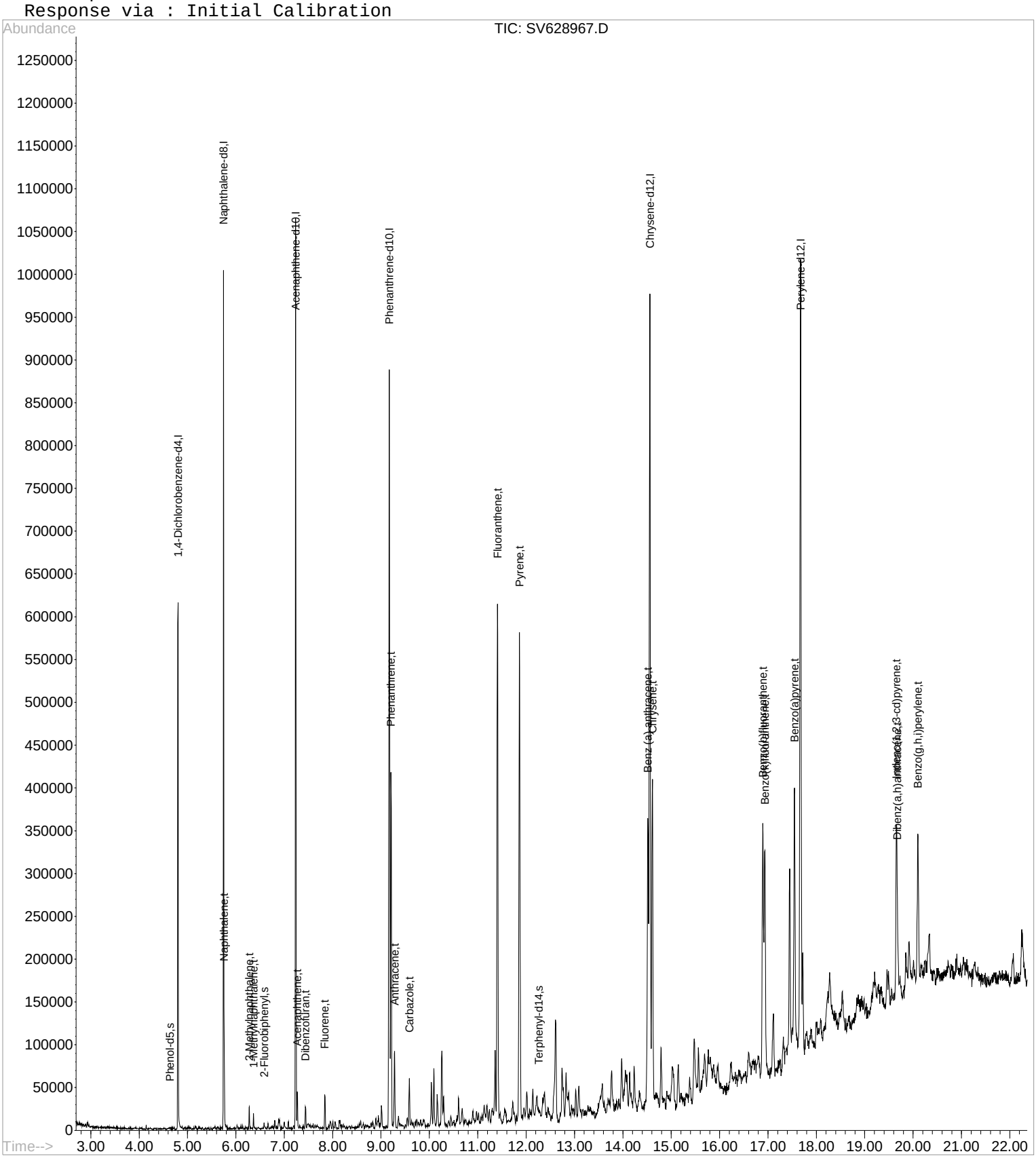
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	909903	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.75	136	3599265	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2238280	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	4629471	40.00	ug/mL	-0.16
80) Chrysene-d12	14.56	240	5335683	40.00	ug/mL	-0.16
92) Perylene-d12	17.68	264	6197779	40.00	ug/mL	-0.14
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0	0.00	ug/mL	
Spiked Amount 75.000	Range 15 - 87		Recovery =	0.00%#		
5) Phenol-d5	4.63	99	10147	0.24	ug/mL	-0.04
Spiked Amount 75.000	Range 10 - 100		Recovery =	0.32%#		
22) Nitrobenzene-d5	0.00	82	0	0.00	ug/mL	
Spiked Amount 50.000	Range 26 - 120		Recovery =	0.00%#		
45) 2-Fluorobiphenyl	6.58	172	16971	0.22	ug/mL	-0.11
Spiked Amount 50.000	Range 29 - 120		Recovery =	0.44%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/mL	
Spiked Amount 75.000	Range 35 - 126		Recovery =	0.00%#		
82) Terphenyl-d14	12.26	244	36264m	0.28	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery =	0.56%#		
Target Compounds						Qvalue
32) Naphthalene	5.76	128	176406	1.90	ug/mL#	93
37) 1-Methylnaphthalene	6.37	141	41194	0.63	ug/mL	96
38) 2-Methylnaphthalene	6.28	142	73373	1.12	ug/mL	98
52) Acenaphthene	7.27	154	92121	1.41	ug/mL	98
54) Dibenzofuran	7.44	168	99935	0.98	ug/mL#	88
59) Fluorene	7.84	166	122694	1.50	ug/mL#	90
73) Phenanthrene	9.21	178	2034516	16.45	ug/mL	99
74) Anthracene	9.28	178	474744	3.63	ug/mL#	95
75) Carbazole	9.59	167	303129	2.23	ug/mL#	100
78) Fluoranthene	11.41	202	3844174	26.29	ug/mL	100
81) Pyrene	11.86	202	3259688	16.52	ug/mL#	96
85) Benz (a) anthracene	14.51	228	2178076m	12.17	ug/mL	
87) Chrysene	14.61	228	2117300	12.28	ug/mL	96
89) Benzo(b)fluoranthene	16.90	252	2066663	12.72	ug/mL#	93
90) Benzo(k)fluoranthene	16.93	252	1839685m	9.51	ug/mL	
91) Benzo(a)pyrene	17.55	252	2125114m	13.15	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.66	276	1377534	7.25	ug/mL#	76
94) Dibenz(a,h)anthracene	19.68	278	507606	3.74	ug/mL#	86
95) Benzo(g,h,i)perylene	20.10	276	1243106	6.93	ug/mL#	90

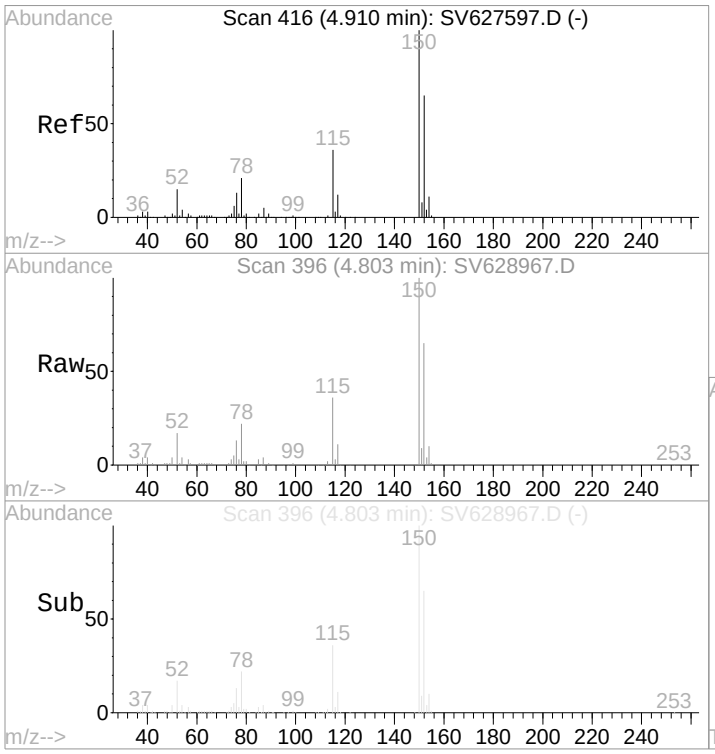
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021120A\SV628967.D Vial: 8
Acq On : 11 Feb 2020 11:41 am Operator: OW
Sample : 20B0093-02RE3 Inst : BNA#6
Misc : QBSV6021120A RE 100X 8270 COMP Multiplr: 100.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:40 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

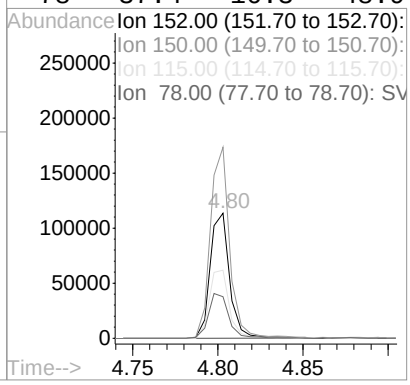


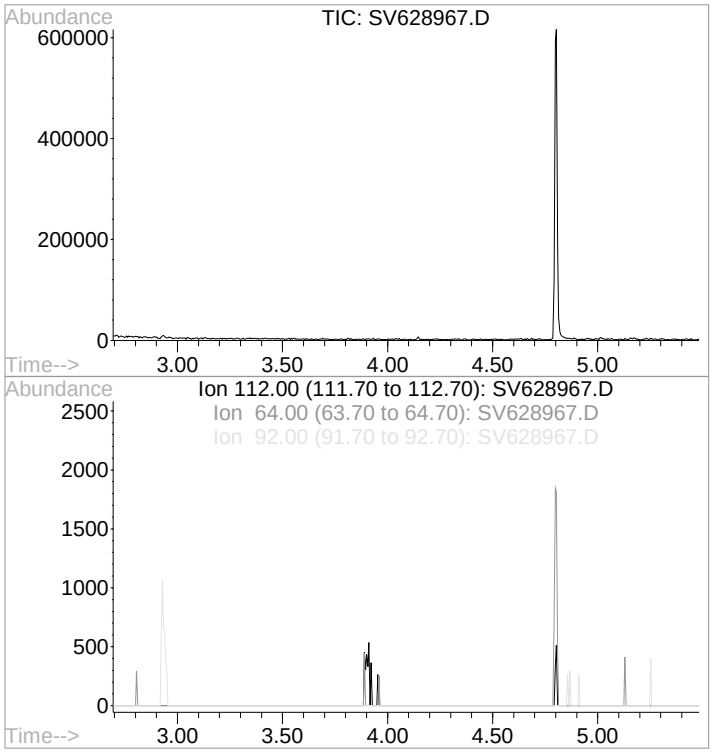


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 396
Delta R.T. -0.11 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:152 Resp: 909903

Ion	Ratio	Lower	Upper
152	100		
150	149.6	84.8	254.4
115	55.8	27.5	82.4
78	37.4	16.3	48.9



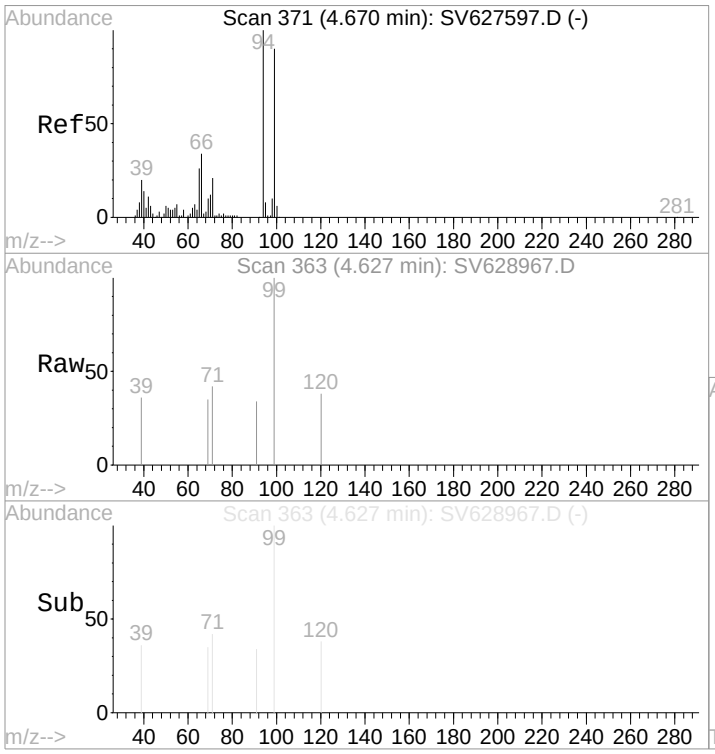


#4
2-Fluorophenol
Concen: N.D. ug/mL
Expected RT: 3.98 min

Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion: 112

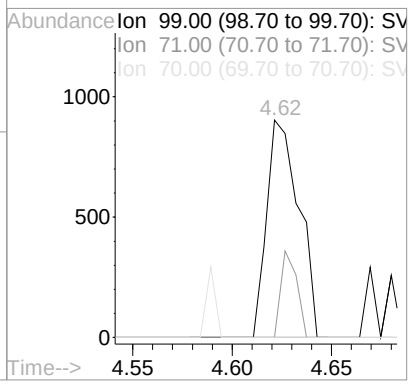
Sig	Exp Ratio
112	100
64	45.7
92	20.3

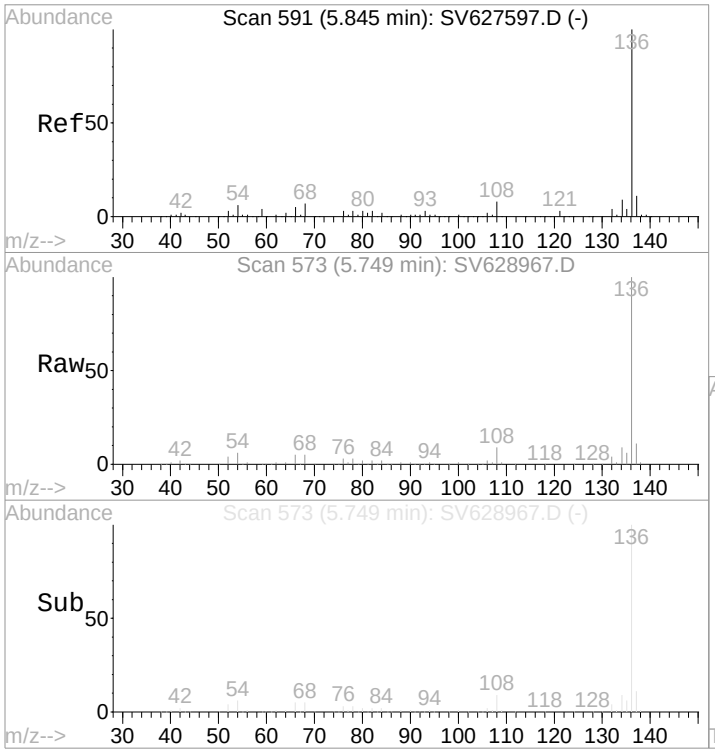


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.63 min Scan# 363
Delta R.T. -0.04 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion: 99 Resp: 10147

Ion	Ratio	Lower	Upper
99	100		
71	0.0	20.5	30.7#
70	0.0	10.3	15.5#

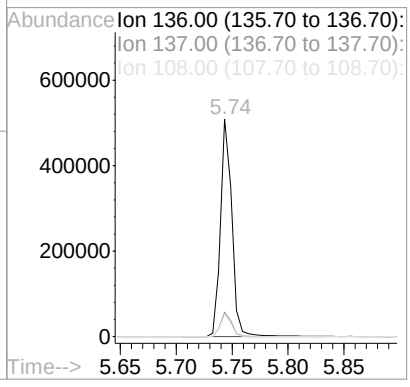


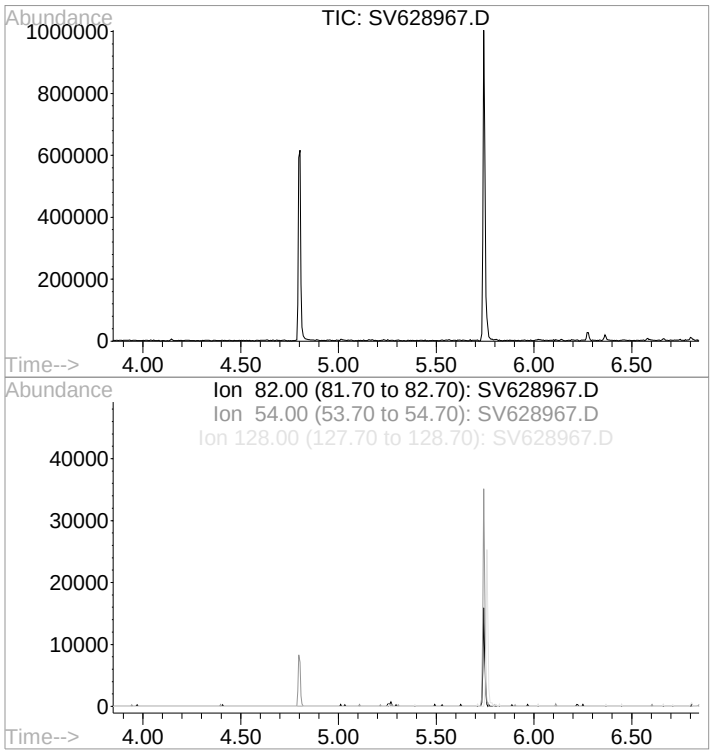


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.75 min Scan# 573
Delta R.T. -0.10 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:136 Resp: 3599265

Ion	Ratio	Lower	Upper
136	100		
137	11.1	5.7	17.0
108	9.5	4.2	12.4



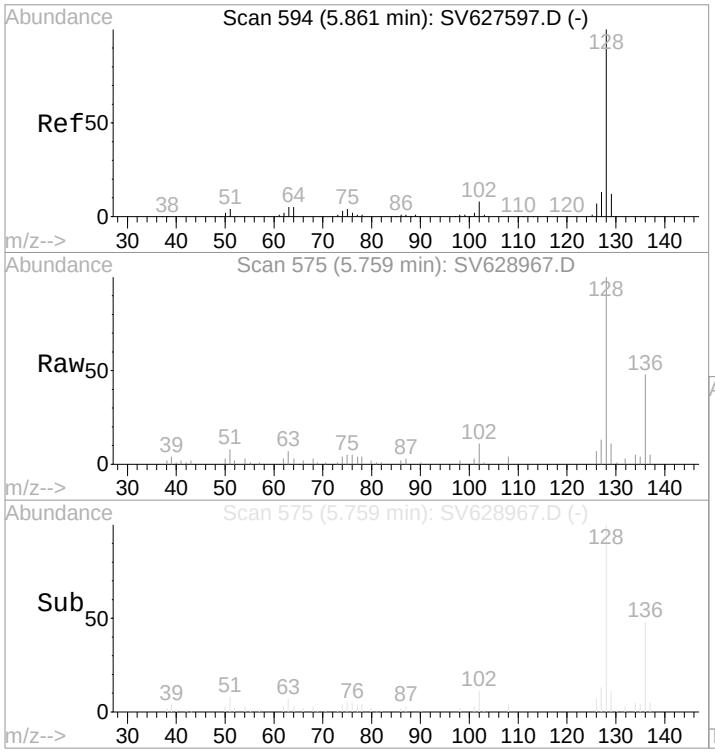


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
Expected RT: 5.34 min

Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion: 82

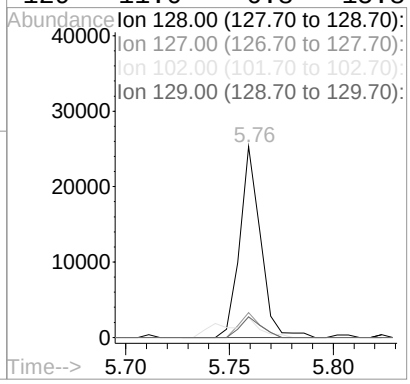
Sig	Exp Ratio
82	100
54	40.5
128	51.6

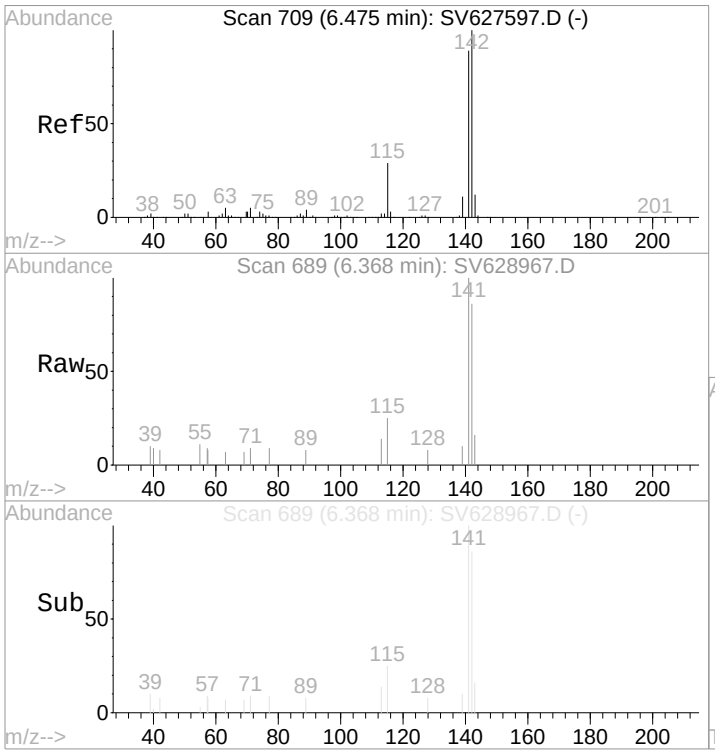


#32
Naphthalene
Concen: 1.90 ug/mL
RT: 5.76 min Scan# 575
Delta R.T. -0.10 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:128 Resp: 176406

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
102	18.1	4.1	12.3#
129	11.0	6.8	15.8

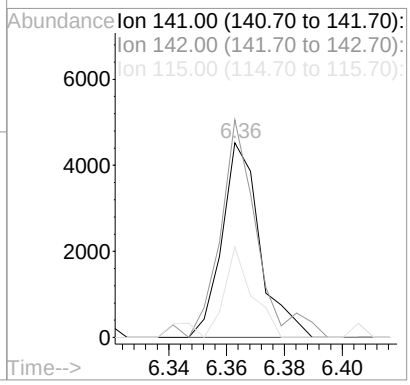


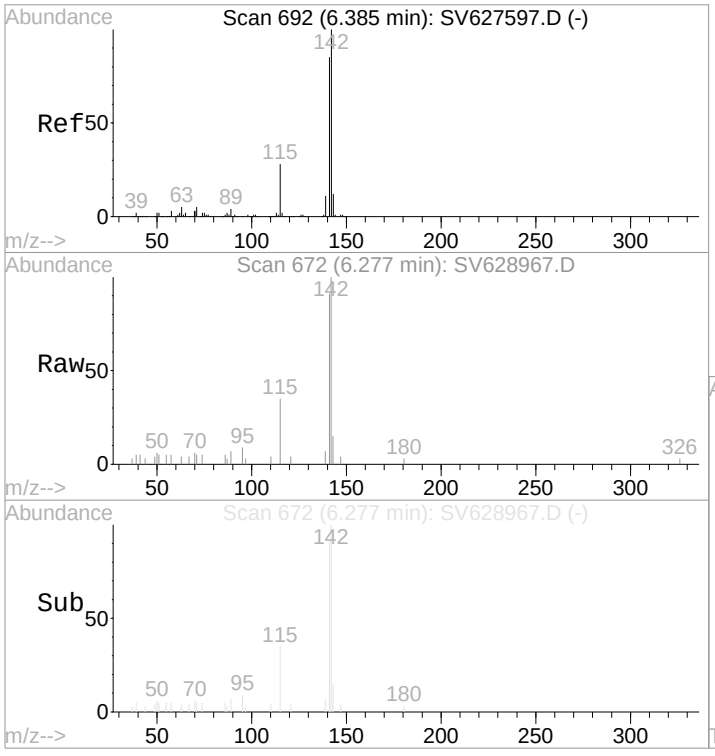


#37
1-Methylnaphthalene
Concen: 0.63 ug/mL
RT: 6.37 min Scan# 689
Delta R.T. -0.11 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:141 Resp: 41194

Ion	Ratio	Lower	Upper
141	100		
142	108.4	90.6	135.8
115	33.9	28.2	42.4

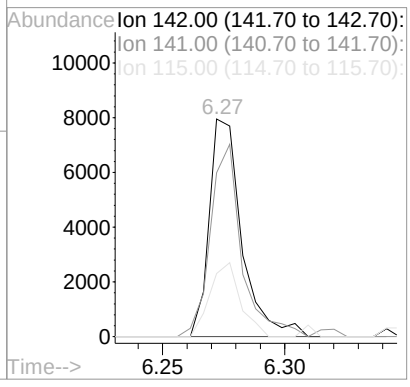


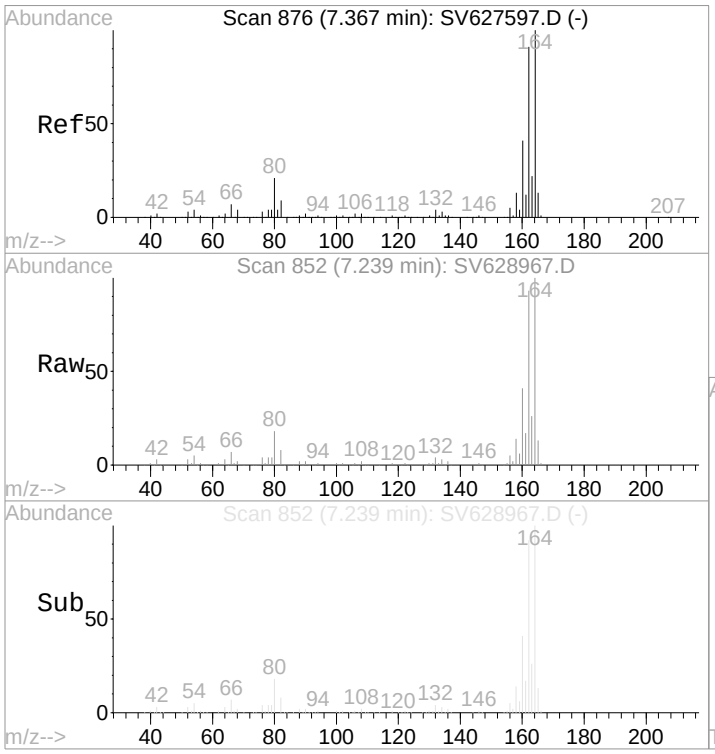


#38
2-Methylnaphthalene
Concen: 1.12 ug/mL
RT: 6.28 min Scan# 672
Delta R.T. -0.11 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:142 Resp: 73373

Ion	Ratio	Lower	Upper
142	100		
141	85.3	67.4	101.2
115	31.9	23.4	35.0

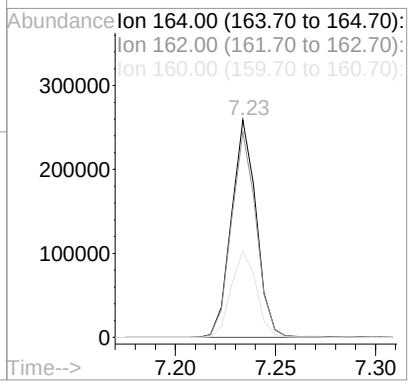


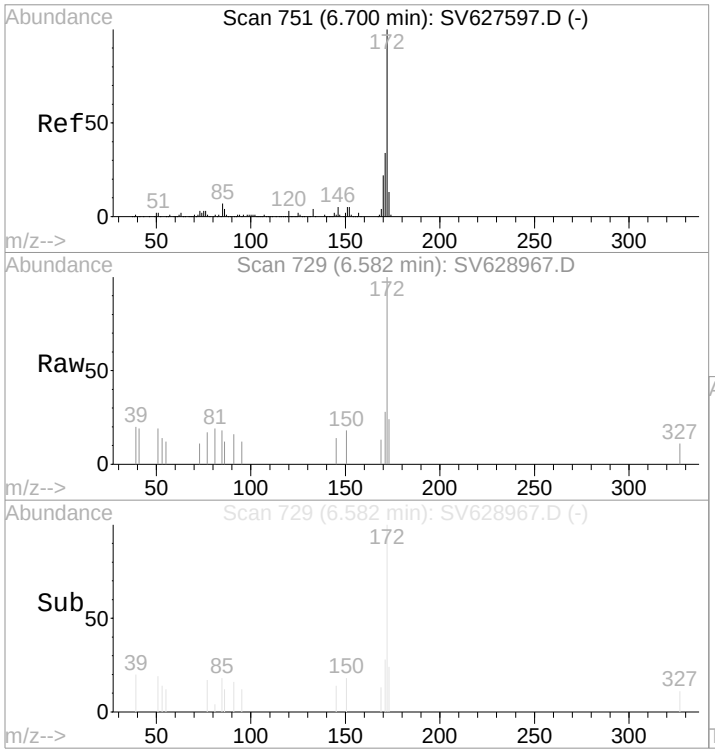


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.24 min Scan# 852
Delta R.T. -0.13 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:164 Resp: 2238280

Ion	Ratio	Lower	Upper
164	100		
162	94.5	46.5	139.3
160	40.4	20.9	62.7

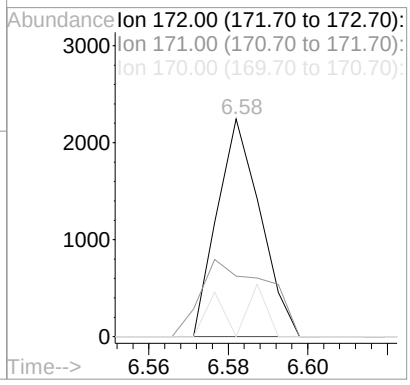


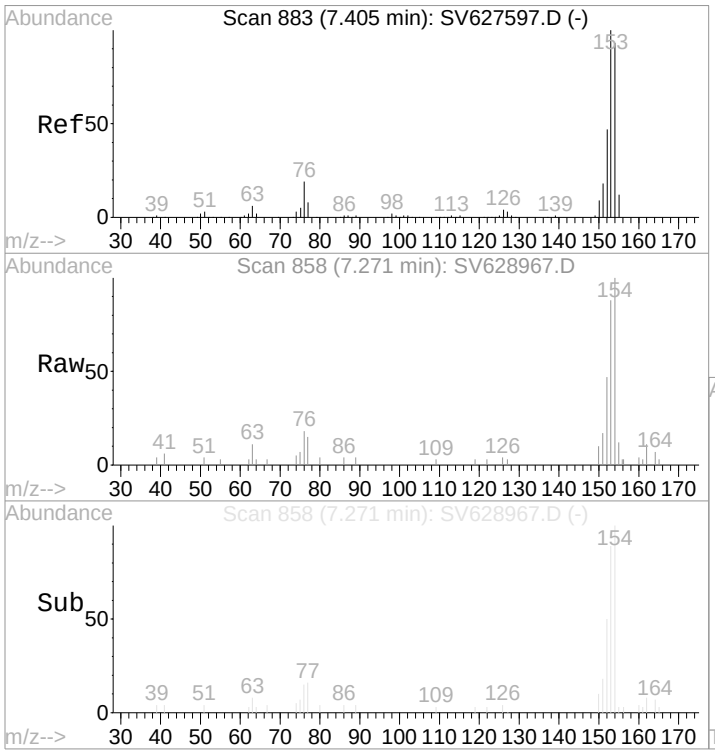


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 729
Delta R.T. -0.11 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:172 Resp: 16971

Ion	Ratio	Lower	Upper
172	100		
171	0.0	27.2	40.8#
170	0.0	18.1	27.1#

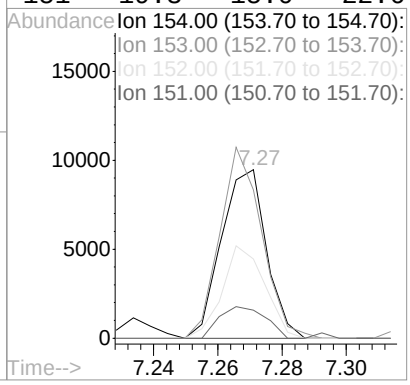


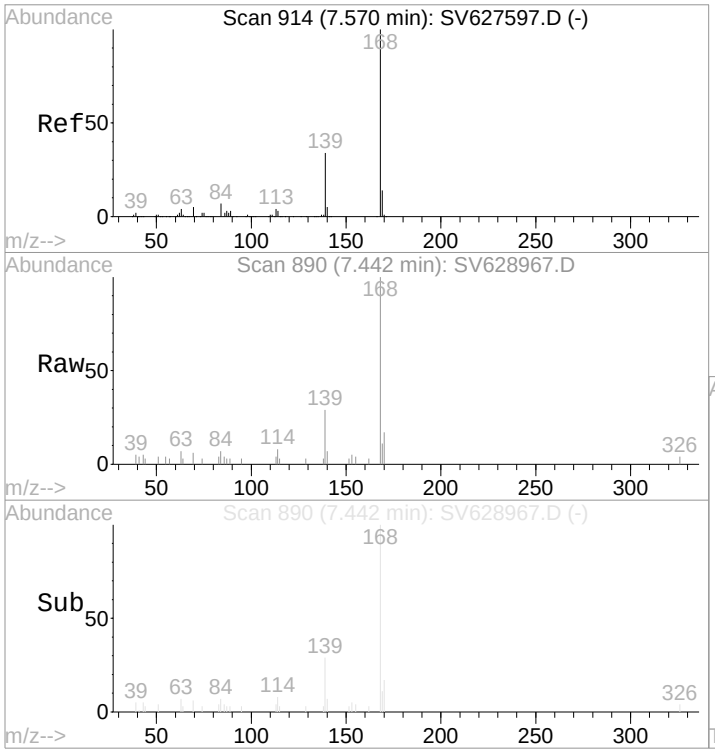


#52
Acenaphthene
Concen: 1.41 ug/mL
RT: 7.27 min Scan# 858
Delta R.T. -0.13 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:154 Resp: 92121

Ion	Ratio	Lower	Upper
154	100		
153	105.0	86.2	129.4
152	51.8	40.4	60.6
151	19.3	15.0	22.6

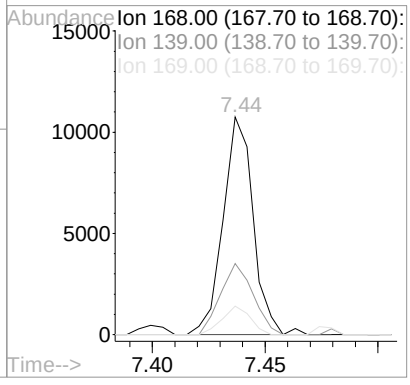


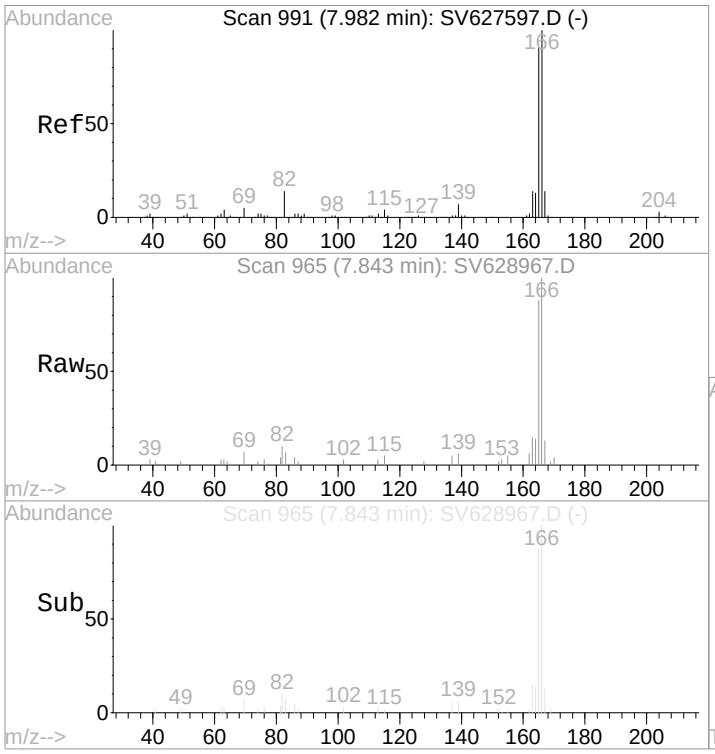


#54
Dibenzofuran
Concen: 0.98 ug/mL
RT: 7.44 min Scan# 890
Delta R.T. -0.13 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:168 Resp: 99935

Ion	Ratio	Lower	Upper
168	100		
139	35.4	26.6	40.0
169	0.0	11.0	16.4#

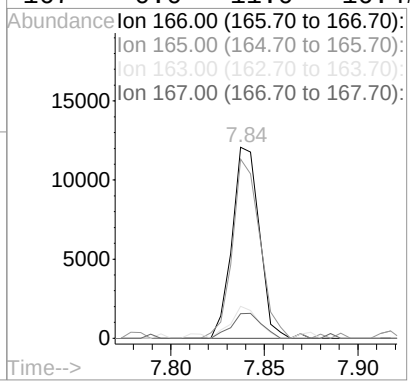


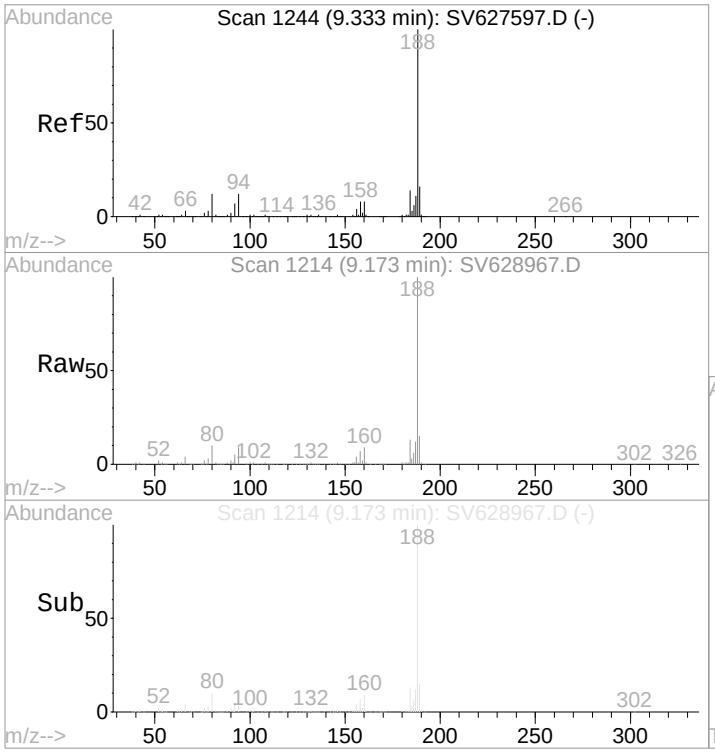


#59
Fluorene
Concen: 1.50 ug/mL
RT: 7.84 min Scan# 965
Delta R.T. -0.14 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:166 Resp: 122694

Ion	Ratio	Lower	Upper
166	100		
165	96.6	72.6	109.0
163	17.9	11.5	17.3#
167	0.0	11.0	16.4#

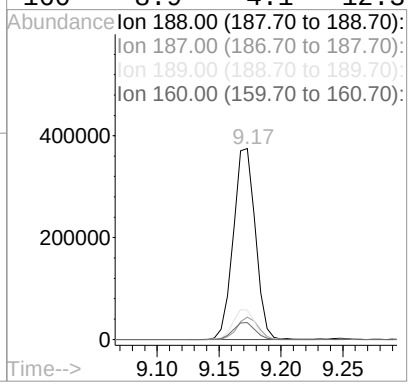


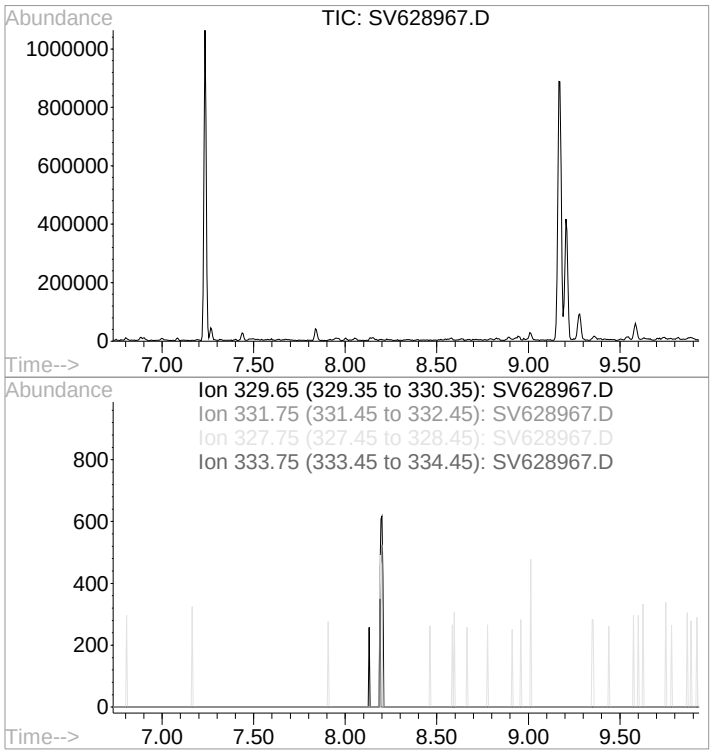


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.17 min Scan# 1214
Delta R.T. -0.16 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:188 Resp: 4629471

Ion	Ratio	Lower	Upper
188	100		
187	11.2	8.4	12.6
189	15.5	8.0	23.8
160	8.9	4.1	12.3



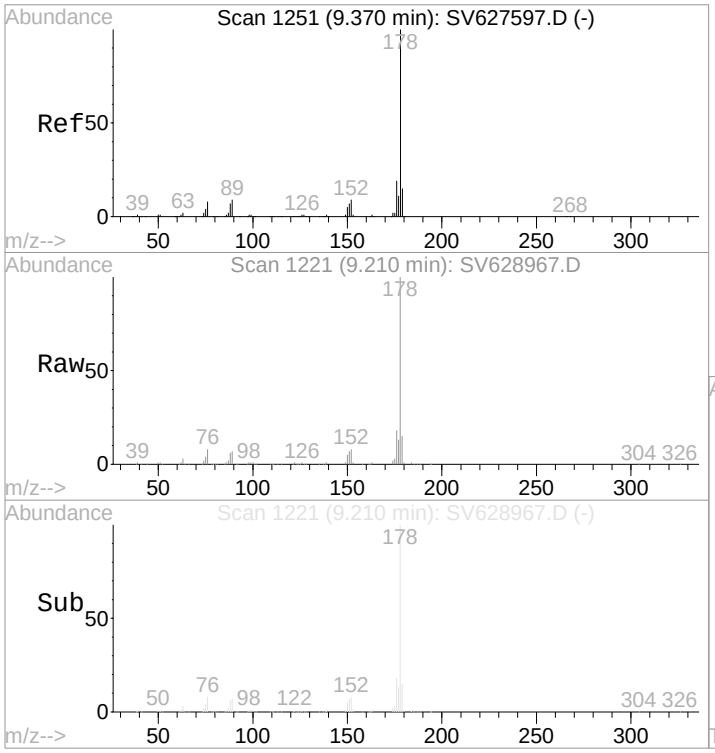


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
Expected RT: 8.33 min

Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion: 330

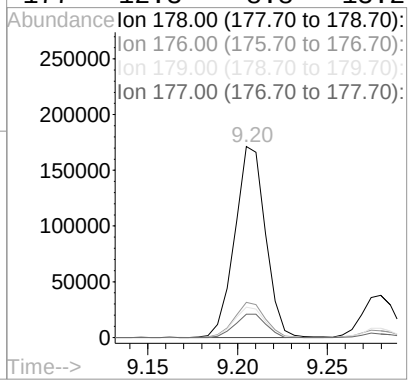
Sig	Exp Ratio
330	100
332	92.7
328	35.6
334	30.8

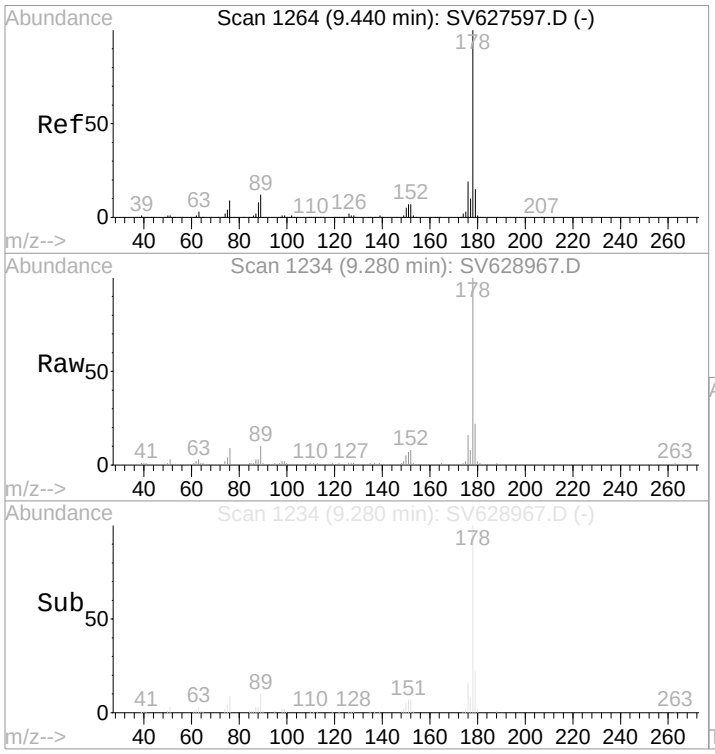


#73
Phenanthrene
Concen: 16.45 ug/mL
RT: 9.21 min Scan# 1221
Delta R.T. -0.16 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:178 Resp: 2034516

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.2	22.8
179	15.8	12.5	18.7
177	12.3	8.8	13.2

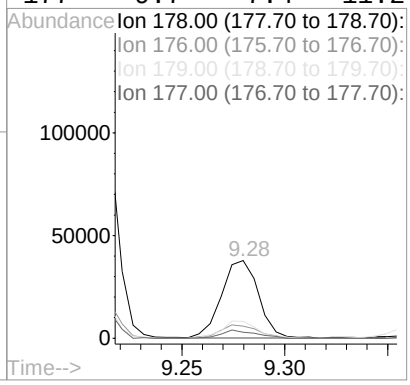


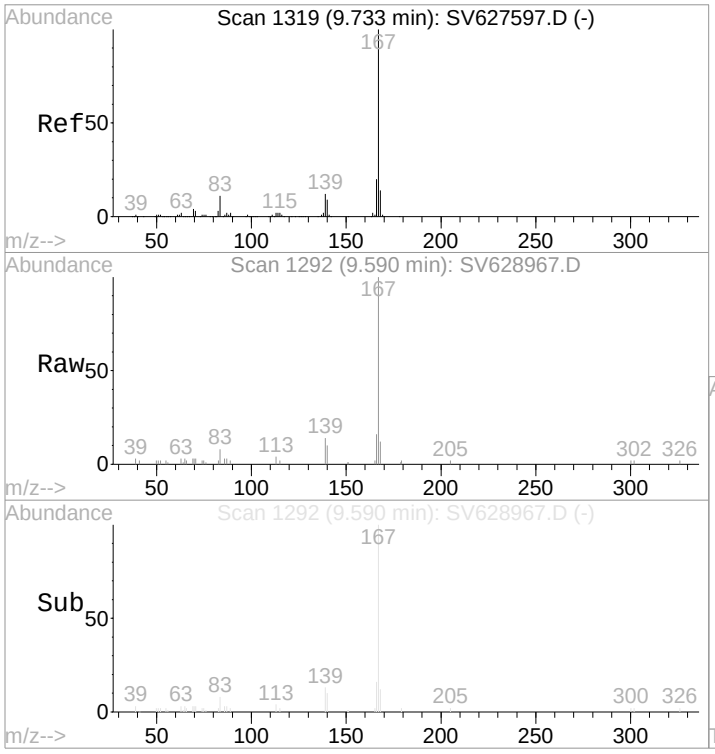


#74
Anthracene
Concen: 3.63 ug/mL
RT: 9.28 min Scan# 1234
Delta R.T. -0.16 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:178 Resp: 474744

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.5	21.7
179	21.1	12.5	18.7#
177	9.7	7.4	11.2

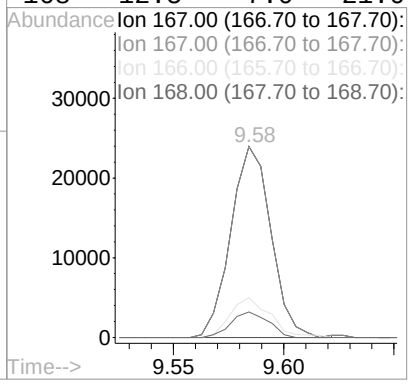


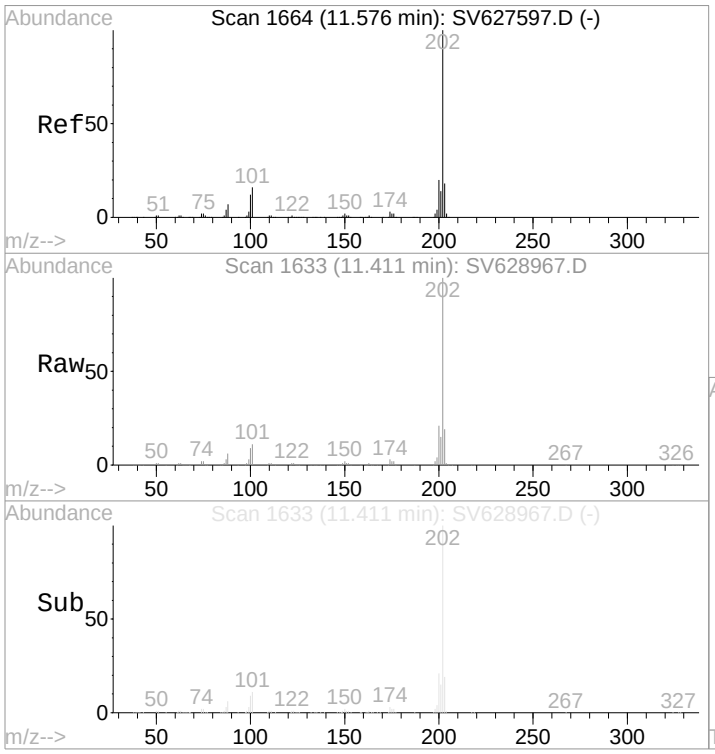


#75
Carbazole
Concen: 2.23 ug/mL
RT: 9.59 min Scan# 1292
Delta R.T. -0.14 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:167 Resp: 303129

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	20.8	0.0	0.0#
168	12.5	7.0	21.0

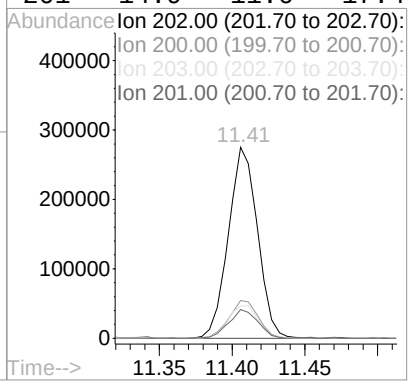


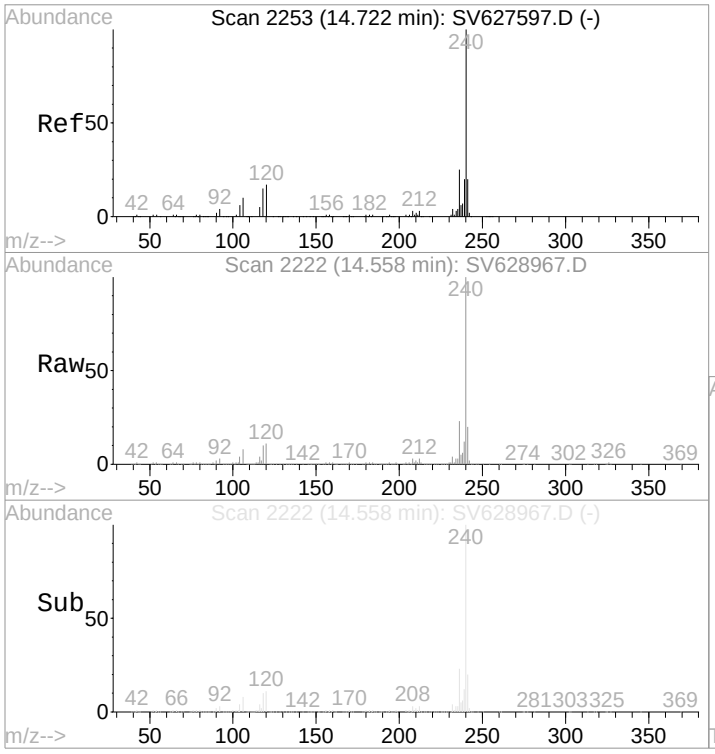


#78
Fluoranthene
Concen: 26.29 ug/mL
RT: 11.41 min Scan# 1633
Delta R.T. -0.17 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:202 Resp: 3844174

Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.8	23.6
203	17.7	14.1	21.1
201	14.9	11.6	17.4

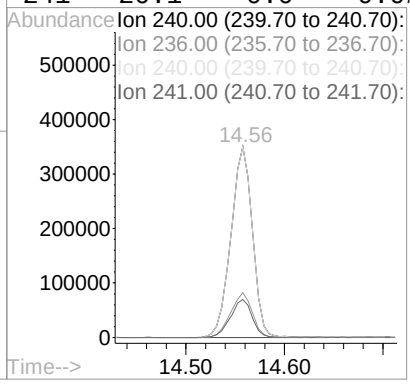


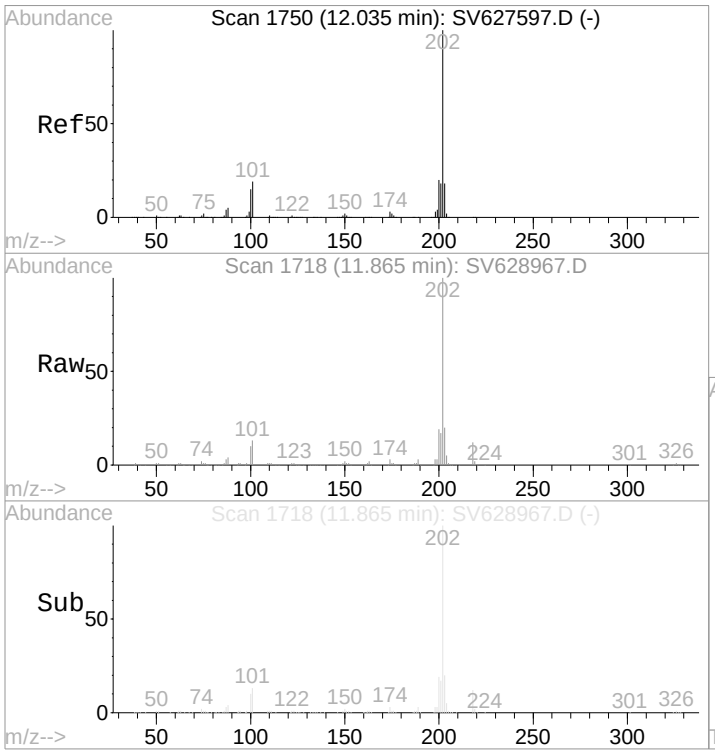


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.56 min Scan# 2222
Delta R.T. -0.16 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:240 Resp: 5335683

Ion	Ratio	Lower	Upper
240	100		
236	0.0	12.2	36.4#
240	100.0	50.0	150.0
241	20.1	0.0	0.0#

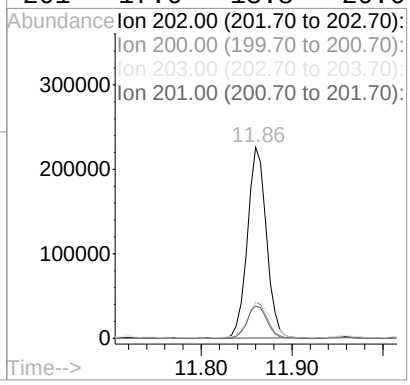


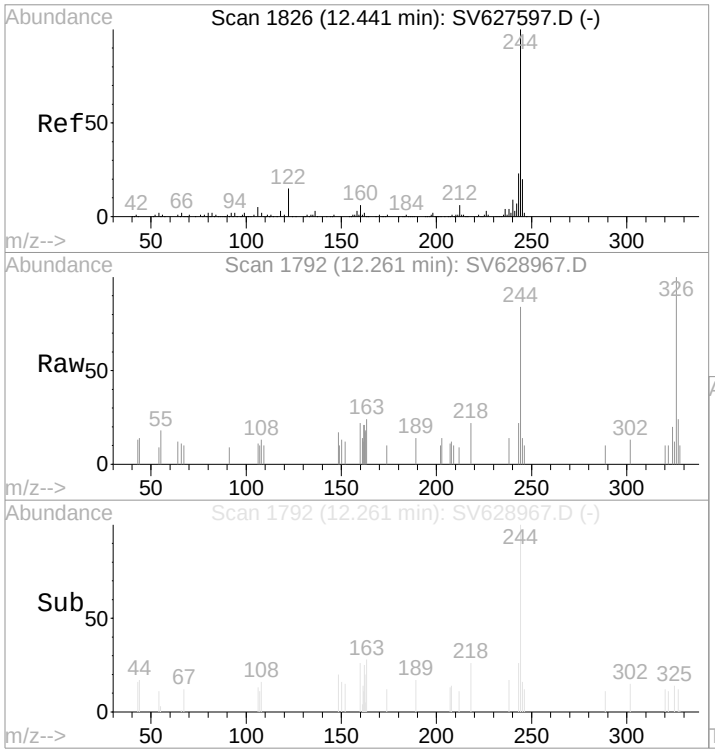


#81
Pyrene
Concen: 16.52 ug/mL
RT: 11.86 min Scan# 1718
Delta R.T. -0.17 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:202 Resp: 3259688

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.2	24.2
203	23.5	14.6	22.0#
201	17.6	13.8	20.6

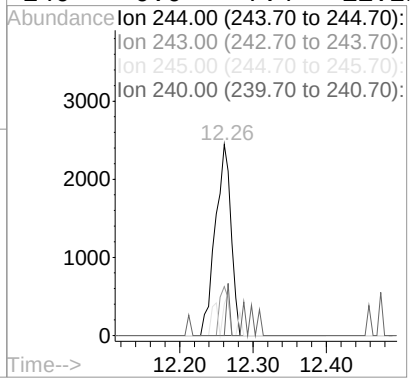


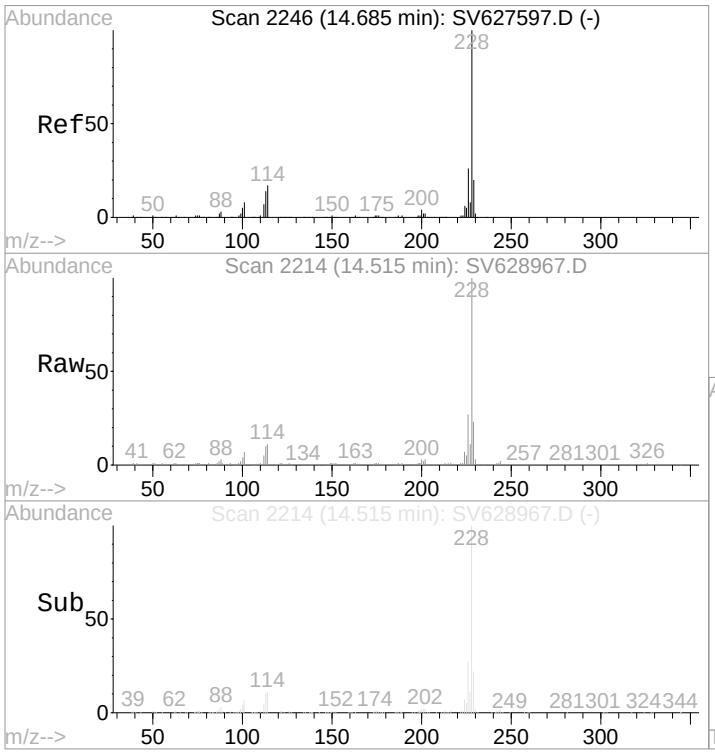


#82
Terphenyl-d14
Concen: 16.52 ug/mL m
RT: 12.26 min Scan# 1792
Delta R.T. -0.18 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:244 Resp: 36264

Ion	Ratio	Lower	Upper
244	100		
243	0.0	18.4	27.6#
245	0.0	15.4	23.0#
240	0.0	7.4	11.2#

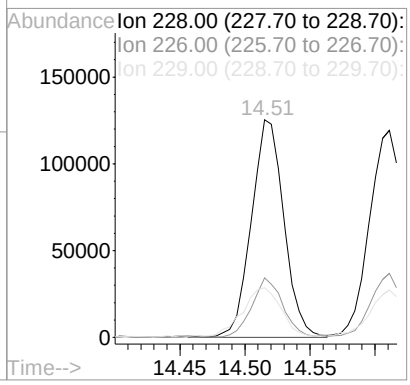


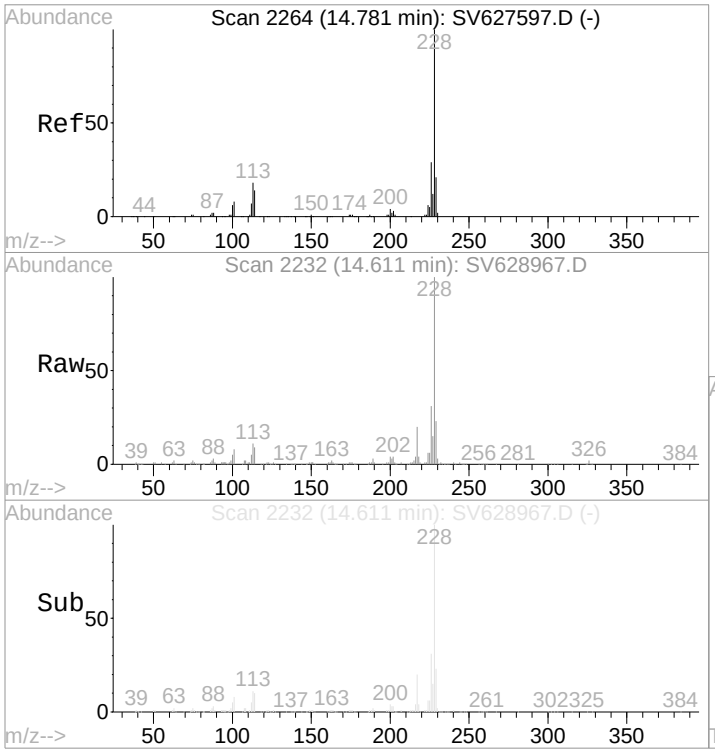


#85
Benz (a) anthracene
Concen: 12.17 ug/mL m
RT: 14.51 min Scan# 2214
Delta R.T. -0.16 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:228 Resp: 2178076

Ion	Ratio	Lower	Upper
228	100		
226	28.4	21.3	31.9
229	21.1	16.4	24.6

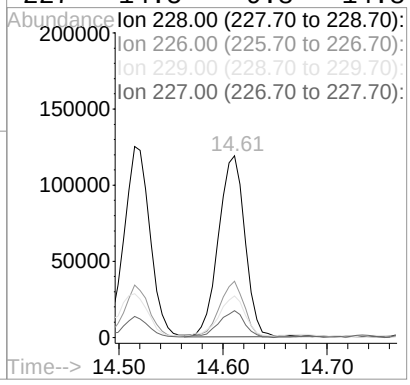


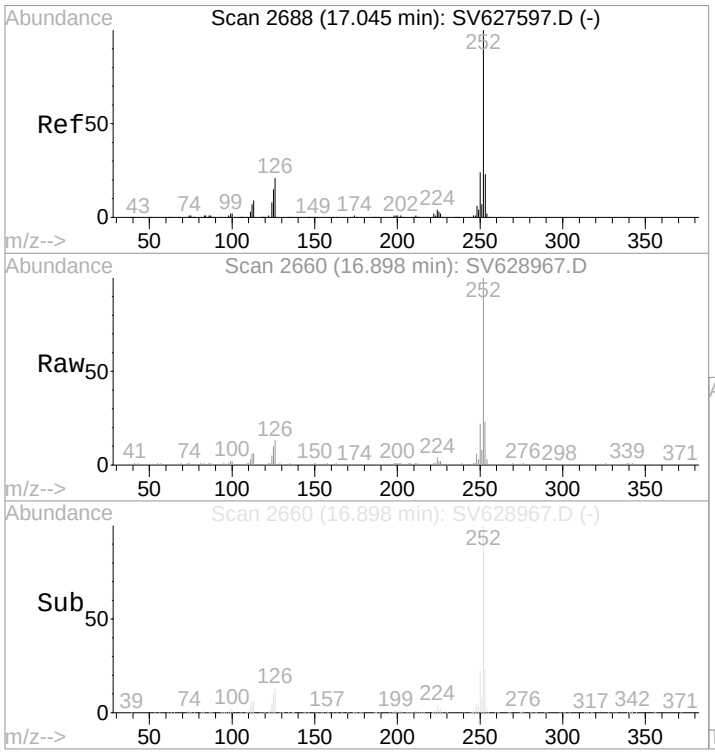


#87
Chrysene
Concen: 12.28 ug/mL
RT: 14.61 min Scan# 2232
Delta R.T. -0.16 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:228 Resp: 2117300

Ion	Ratio	Lower	Upper
228	100		
226	28.2	23.6	35.4
229	21.8	15.5	23.3
227	14.5	9.8	14.8

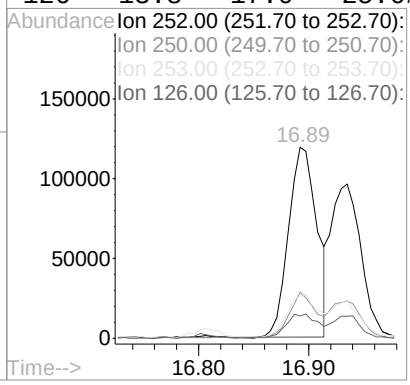


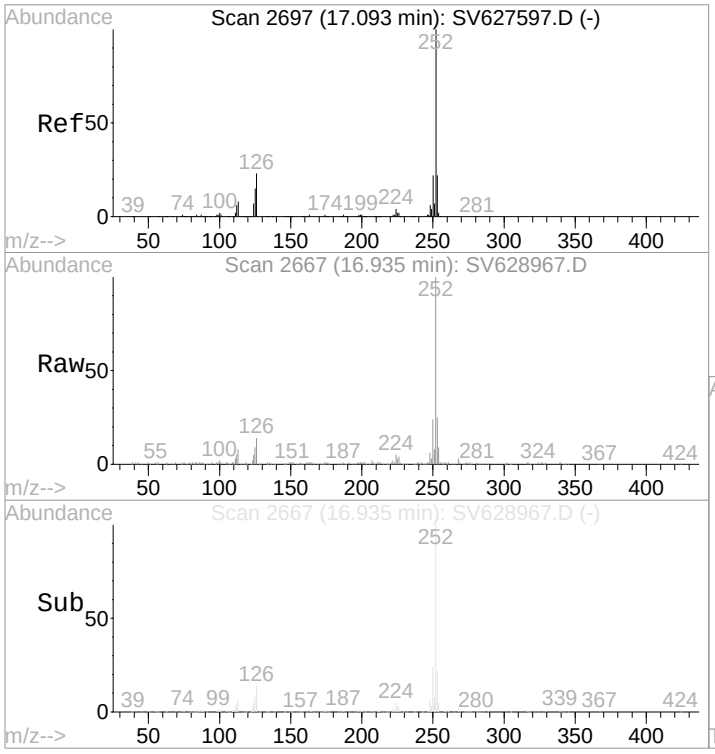


#89
Benzo(b)fluoranthene
Concen: 12.72 ug/mL
RT: 16.90 min Scan# 2660
Delta R.T. -0.14 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:252 Resp: 2066663

Ion	Ratio	Lower	Upper
252	100		
250	22.0	18.2	27.4
253	24.4	17.9	26.9
126	13.8	17.0	25.6#

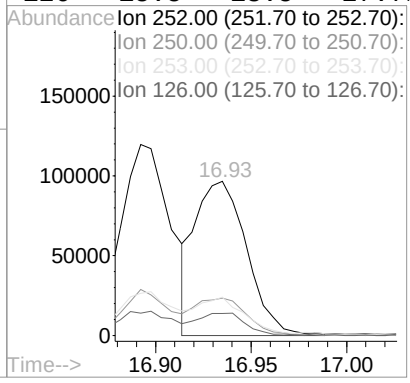


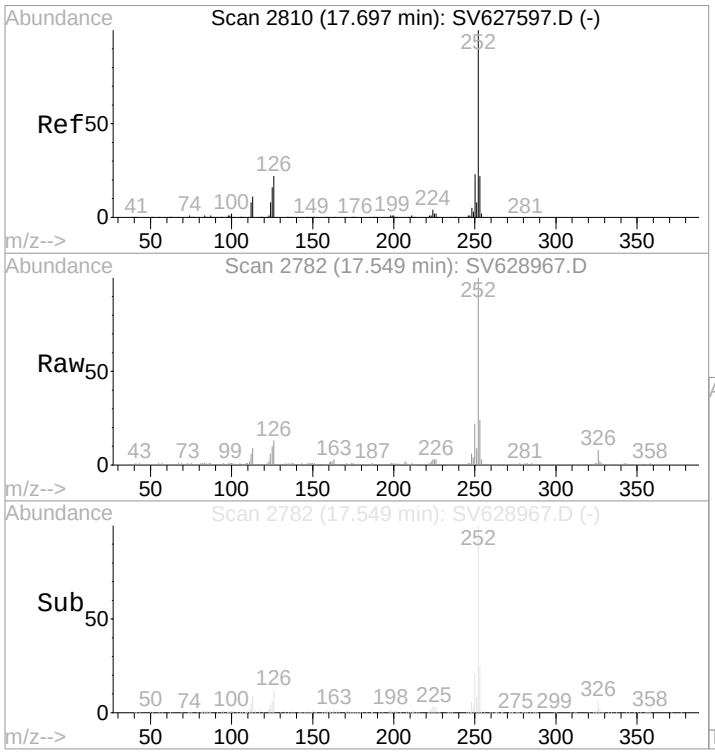


#90
Benzo(k)fluoranthene
Concen: 9.51 ug/mL m
RT: 16.93 min Scan# 2667
Delta R.T. -0.15 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:252 Resp: 1839685

Ion	Ratio	Lower	Upper
252	100		
250	24.6	17.2	25.8
253	26.7	18.1	27.1
126	15.5	18.5	27.7#

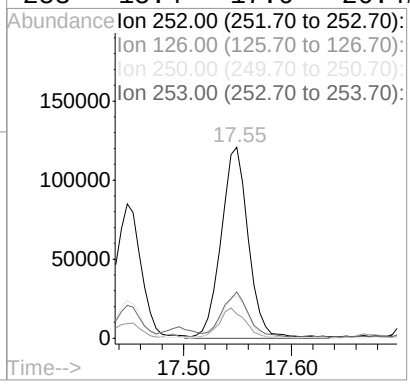


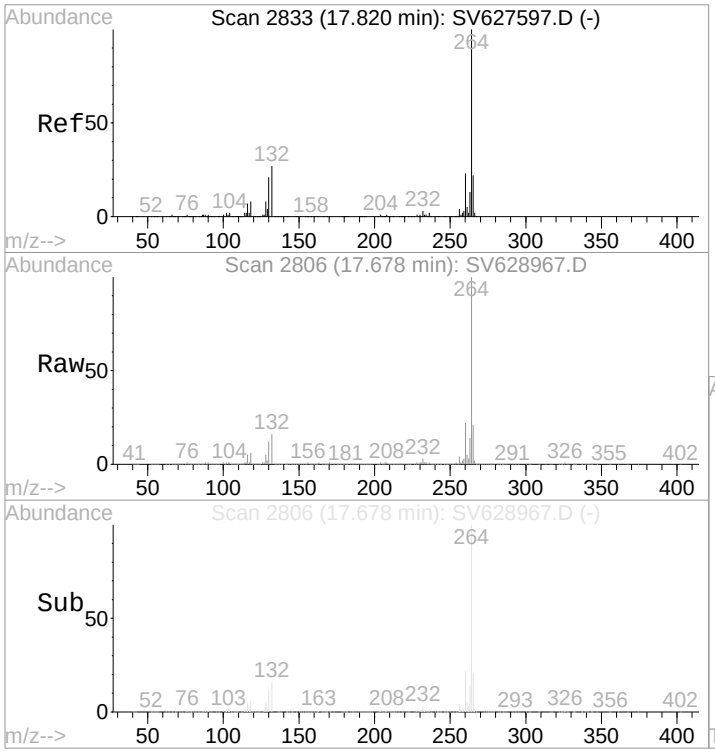


#91
Benzo(a)pyrene
Concen: 13.15 ug/mL m
RT: 17.55 min Scan# 2782
Delta R.T. -0.14 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:252 Resp: 2125114

Ion	Ratio	Lower	Upper
252	100		
126	8.5	18.4	27.6#
250	18.2	17.8	26.8
253	15.4	17.6	26.4#

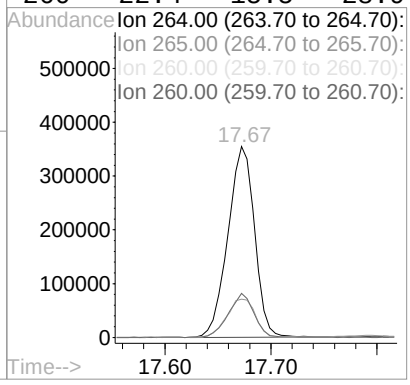


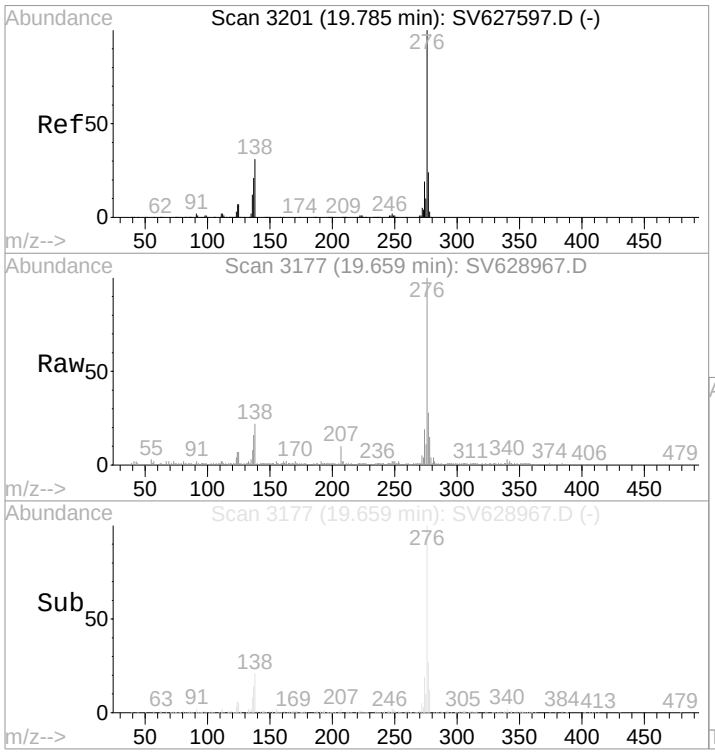


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.68 min Scan# 2806
Delta R.T. -0.14 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:264 Resp: 6197779

Ion	Ratio	Lower	Upper
264	100		
265	0.0	0.0	0.0
260	22.4	17.8	26.6
260	22.4	15.5	28.9

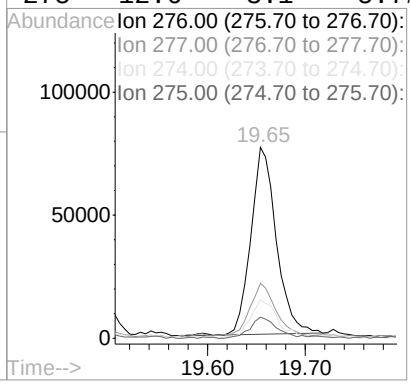


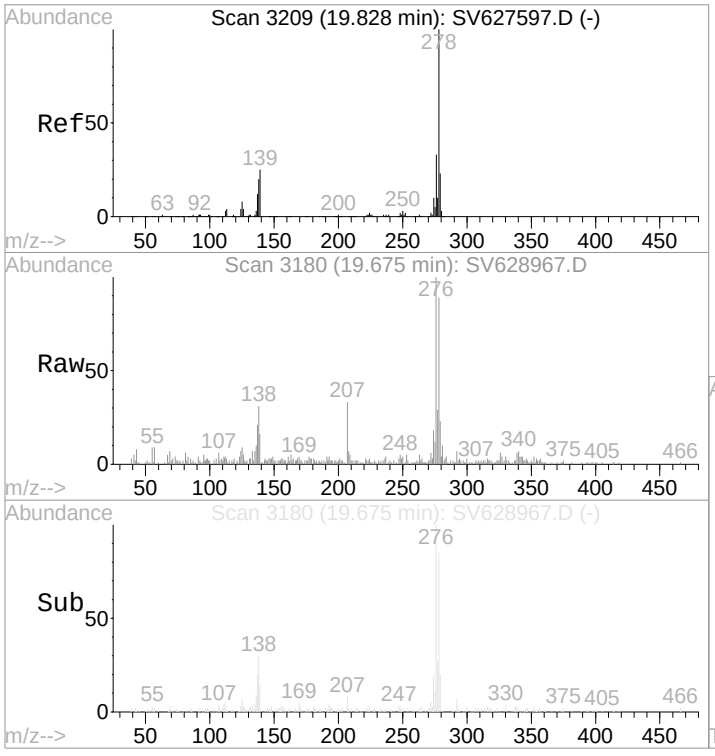


#93
Indeno(1,2,3-cd)pyrene
Concen: 7.25 ug/mL
RT: 19.66 min Scan# 3177
Delta R.T. -0.12 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:276 Resp: 1377534

Ion	Ratio	Lower	Upper
276	100		
277	28.0	12.9	19.3#
274	20.8	10.8	16.2#
275	12.6	3.1	5.7#

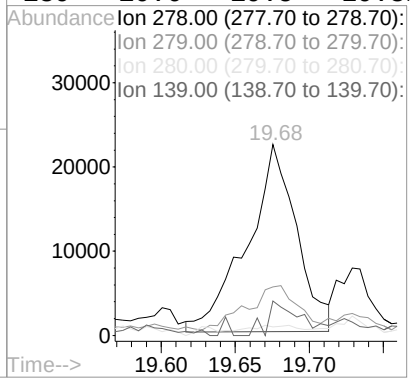


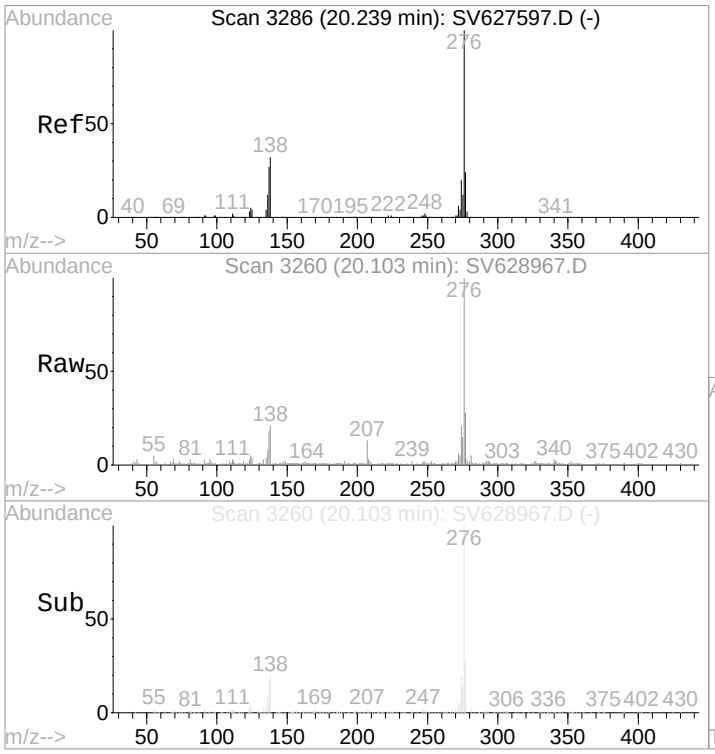


#94
Dibenz(a,h)anthracene
Concen: 3.74 ug/mL
RT: 19.68 min Scan# 3180
Delta R.T. -0.14 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:278 Resp: 507606

Ion	Ratio	Lower	Upper
278	100		
279	23.7	18.5	27.7
280	0.0	0.0	5.0
139	10.6	19.5	29.3#

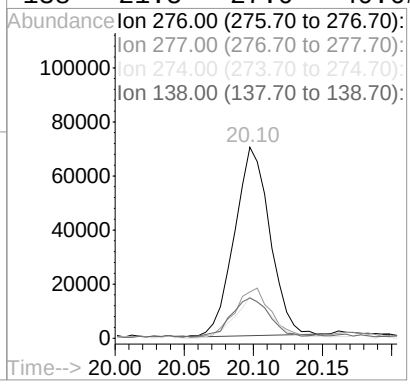




#95
Benzo(g,h,i)perylene
Concen: 6.93 ug/mL
RT: 20.10 min Scan# 3260
Delta R.T. -0.12 min
Lab File: SV628967.D
Acq: 11 Feb 2020 11:41 am

Tgt Ion:276 Resp: 1243106

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.1	28.7
274	21.7	0.0	42.2
138	21.5	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID: SV628953.D

Sampled: 02/04/20 12:45 Prepared: 02/10/20 07:21 Analyzed: 02/10/20 23:03

Solids: 87.50 Preparation: EPA 3550C Initial/Final: 20.1 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
92-52-4	1,1-Biphenyl	2	142	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	284	U
120-82-1	1,2,4-Trichlorobenzene	2	142	U
95-50-1	1,2-Dichlorobenzene	2	142	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	142	U
541-73-1	1,3-Dichlorobenzene	2	142	U
106-46-7	1,4-Dichlorobenzene	2	142	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	284	U
95-95-4	2,4,5-Trichlorophenol	2	142	U
88-06-2	2,4,6-Trichlorophenol	2	142	U
120-83-2	2,4-Dichlorophenol	2	142	U
105-67-9	2,4-Dimethylphenol	2	142	U
51-28-5	2,4-Dinitrophenol	2	284	U
121-14-2	2,4-Dinitrotoluene	2	142	U
606-20-2	2,6-Dinitrotoluene	2	142	U
91-58-7	2-Chloronaphthalene	2	142	U
95-57-8	2-Chlorophenol	2	142	U
91-57-6	2-Methylnaphthalene	2	142	U
95-48-7	2-Methylphenol	2	142	U
88-74-4	2-Nitroaniline	2	284	U
88-75-5	2-Nitrophenol	2	142	U
65794-96-9	3- & 4-Methylphenols	2	142	U
91-94-1	3,3-Dichlorobenzidine	2	142	U
99-09-2	3-Nitroaniline	2	284	U
534-52-1	4,6-Dinitro-2-methylphenol	2	284	U
101-55-3	4-Bromophenyl phenyl ether	2	142	U
59-50-7	4-Chloro-3-methylphenol	2	142	U
106-47-8	4-Chloroaniline	2	142	U
7005-72-3	4-Chlorophenyl phenyl ether	2	142	U
100-01-6	4-Nitroaniline	2	284	U
100-02-7	4-Nitrophenol	2	284	U
83-32-9	Acenaphthene	2	229	D
208-96-8	Acenaphthylene	2	381	D
98-86-2	Acetophenone	2	142	U
62-53-3	Aniline	2	570	U
120-12-7	Anthracene	2	917	D
1912-24-9	Atrazine	2	142	U
100-52-7	Benzaldehyde	2	142	U
92-87-5	Benzidine	2	570	U
56-55-3	Benzo(a)anthracene	2	2570	D

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID: SV628953.D

Sampled: 02/04/20 12:45 Prepared: 02/10/20 07:21 Analyzed: 02/10/20 23:03

Solids: 87.50 Preparation: EPA 3550C Initial/Final: 20.1 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
50-32-8	Benzo(a)pyrene	2	2650	D
205-99-2	Benzo(b)fluoranthene	2	2620	D
191-24-2	Benzo(g,h,i)perylene	2	1850	D
207-08-9	Benzo(k)fluoranthene	2	2340	D
65-85-0	Benzoic acid	2	142	U
100-51-6	Benzyl alcohol	2	142	U
85-68-7	Benzyl butyl phthalate	2	142	U
111-91-1	Bis(2-chloroethoxy)methane	2	142	U
111-44-4	Bis(2-chloroethyl)ether	2	142	U
108-60-1	Bis(2-chloroisopropyl)ether	2	142	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	194	D
105-60-2	Caprolactam	2	284	U
86-74-8	Carbazole	2	397	D
218-01-9	Chrysene	2	2630	D
53-70-3	Dibenzo(a,h)anthracene	2	812	D
132-64-9	Dibenzofuran	2	180	D
84-66-2	Diethyl phthalate	2	142	U
131-11-3	Dimethyl phthalate	2	142	U
84-74-2	Di-n-butyl phthalate	2	142	U
117-84-0	Di-n-octyl phthalate	2	142	U
86-73-7	Fluorene	2	206	D
118-74-1	Hexachlorobenzene	2	142	U
87-68-3	Hexachlorobutadiene	2	142	U
77-47-4	Hexachlorocyclopentadiene	2	142	U
67-72-1	Hexachloroethane	2	142	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	1680	D
78-59-1	Isophorone	2	142	U
91-20-3	Naphthalene	2	86.4	JD
98-95-3	Nitrobenzene	2	142	U
62-75-9	N-Nitrosodimethylamine	2	142	U
621-64-7	N-nitroso-di-n-propylamine	2	142	U
86-30-6	N-Nitrosodiphenylamine	2	142	U
87-86-5	Pentachlorophenol	2	142	U
85-01-8	Phenanthrene	2	4460	D
108-95-2	Phenol	2	142	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2840	1530	53.9	20 - 108	
SURR: Phenol-d5	2840	1830	64.3	23 - 114	
SURR: Nitrobenzene-d5	1420	926	65.1	22 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-3 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-03	File ID:	SV628953.D
Sampled:	02/04/20 12:45	Prepared:	02/10/20 07:21	Analyzed:	02/10/20 23:03
Solids:	87.50	Preparation:	EPA 3550C	Initial/Final:	20.1 g / 1 mL
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	1420	1010	71.0	21 - 113	
SURR: 2,4,6-Tribromophenol	2840	3310	116	19 - 110	*
SURR: Terphenyl-d14	1420	1260	88.6	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1047422	4.8	943755	4.8	
ISTD: Naphthalene-d8	4359504	5.74	4094325	5.74	
ISTD: Acenaphthene-d10	2766045	7.23	2468626	7.23	
ISTD: Phenanthrene-d10	5752804	9.17	5181551	9.17	
ISTD: Chrysene-d12	6821842	14.56	5930644	14.55	
ISTD: Perylene-d12	7674425	17.68	6994074	17.66	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628953.D Vial: 16
Acq On : 10 Feb 2020 11:03 pm Operator: OW
Sample : 20B0093-03 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:47 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

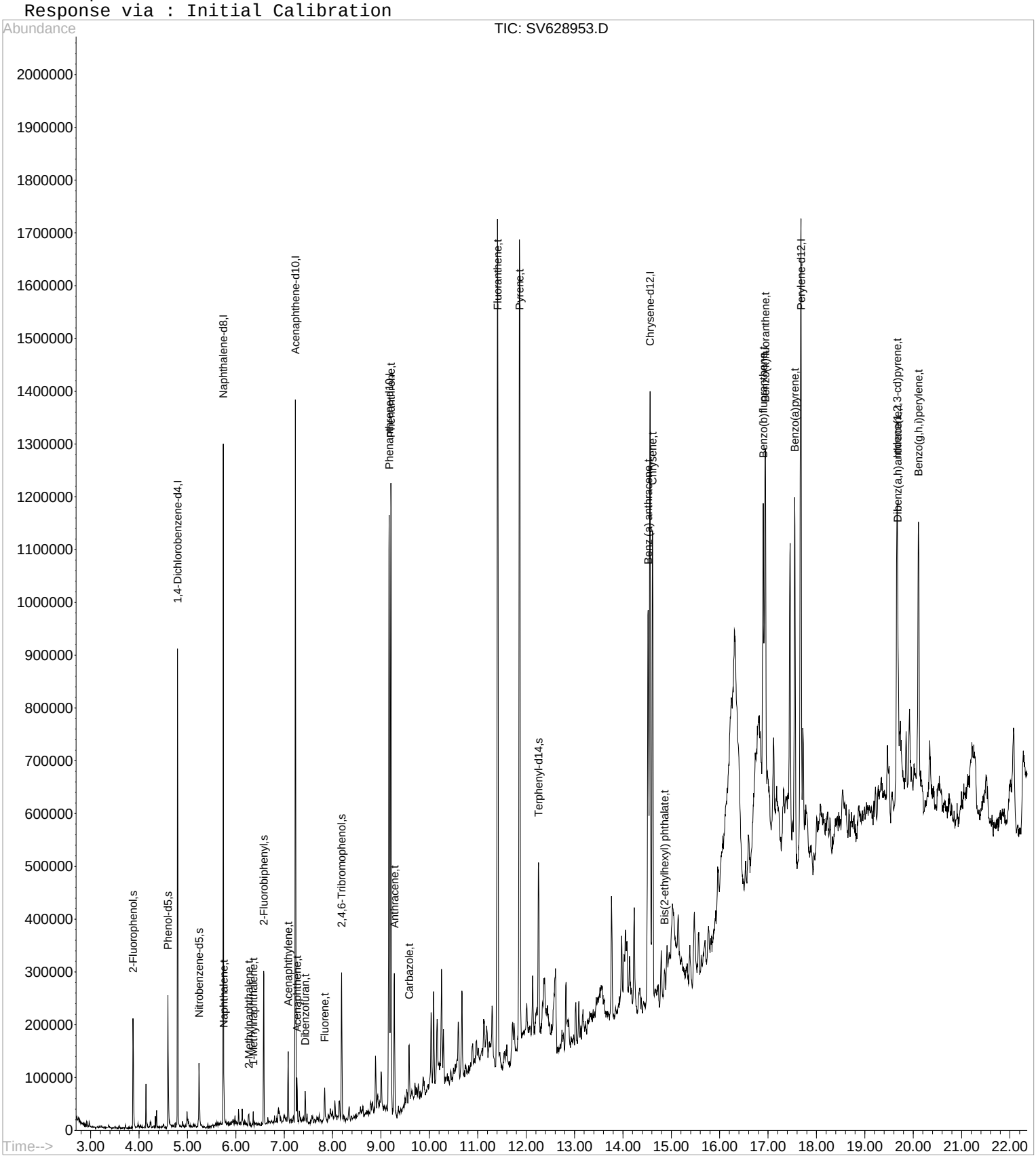
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	1047422	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	4359504	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.23	164	2766045	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	5752804	40.00	ug/mL	-0.16
80) Chrysene-d12	14.56	240	6821842	40.00	ug/mL	-0.16
92) Perylene-d12	17.68	264	7674425	40.00	ug/mL	-0.14
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	515583	13.48	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 17.97%			
5) Phenol-d5	4.60	99	776500	16.08	ug/mL	-0.07
Spiked Amount 75.000	Range 10 - 100		Recovery = 21.44%			
22) Nitrobenzene-d5	5.24	82	312594	8.14	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 16.28%#			
45) 2-Fluorobiphenyl	6.58	172	847270	8.87	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 17.74%#			
67) 2,4,6-Tribromophenol	8.19	330	423955	29.09	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 38.79%			
82) Terphenyl-d14	12.26	244	1840285	11.07	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery = 22.14%#			
Target Compounds						Qvalue
32) Naphthalene	5.76	128	84961	0.76	ug/mL#	60
37) 1-Methylnaphthalene	6.36	141	50809m	0.64	ug/mL	
38) 2-Methylnaphthalene	6.27	142	45905	0.58	ug/mL#	75
50) Acenaphthylene	7.08	152	483095	3.35	ug/mL#	93
52) Acenaphthene	7.27	154	162386	2.01	ug/mL#	95
54) Dibenzofuran	7.44	168	197889	1.58	ug/mL#	91
59) Fluorene	7.84	166	182883	1.81	ug/mL#	86
73) Phenanthrene	9.21	178	6025909	39.20	ug/mL	99
74) Anthracene	9.28	178	1311455	8.06	ug/mL#	95
75) Carbazole	9.58	167	590005	3.49	ug/mL#	96
78) Fluoranthene	11.41	202	10493569	57.75	ug/mL	99
81) Pyrene	11.87	202	9118885	36.14	ug/mL	97
84) Bis(2-ethylhexyl) phthalat	14.86	149	279534m	1.71	ug/mL	
85) Benz (a) anthracene	14.52	228	5178871m	22.63	ug/mL	
87) Chrysene	14.62	228	5106238	23.16	ug/mL	96
89) Benzo(b)fluoranthene	16.90	252	4779484	23.01	ug/mL#	94
90) Benzo(k)fluoranthene	16.94	252	5101272m	20.62	ug/mL	
91) Benzo(a)pyrene	17.55	252	4821351m	23.33	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.67	276	3484319	14.81	ug/mL#	75
94) Dibenz(a,h)anthracene	19.69	278	1200475	7.14	ug/mL#	86
95) Benzo(g,h,i)perylene	20.11	276	3613580	16.27	ug/mL#	90

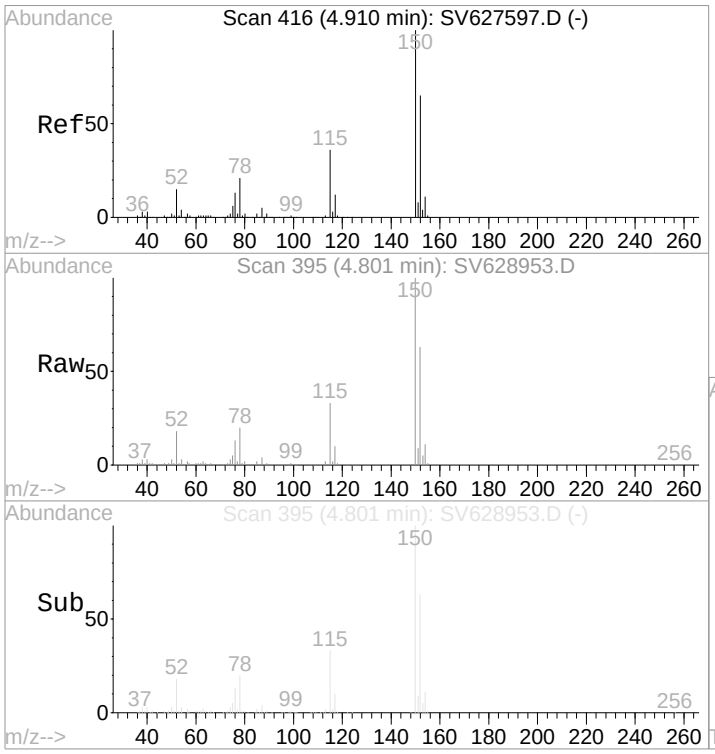
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628953.D Vial: 16
Acq On : 10 Feb 2020 11:03 pm Operator: OW
Sample : 20B0093-03 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:47 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

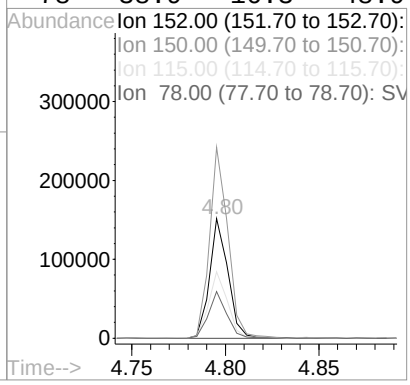


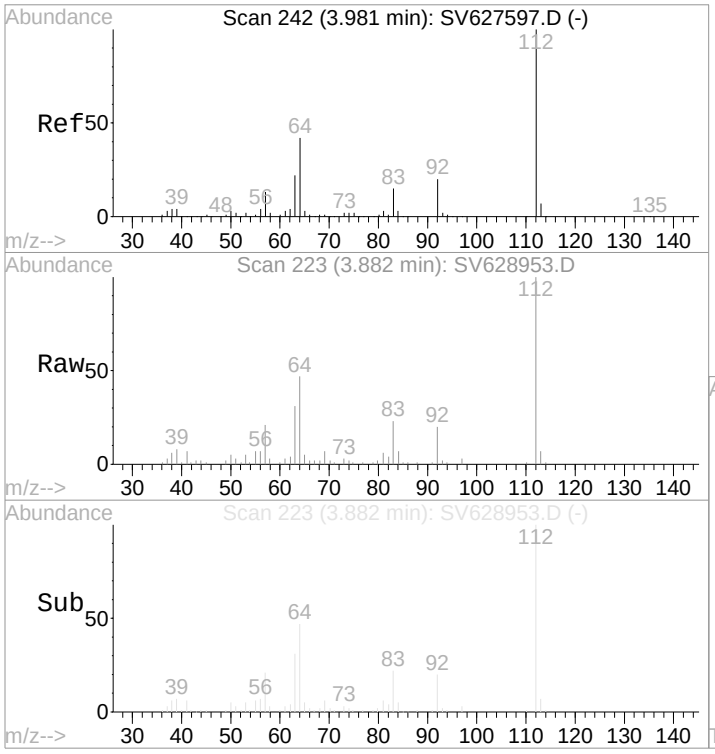


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 395
Delta R.T. -0.11 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:152 Resp: 1047422

Ion	Ratio	Lower	Upper
152	100		
150	158.6	84.8	254.4
115	58.7	27.5	82.4
78	38.9	16.3	48.9

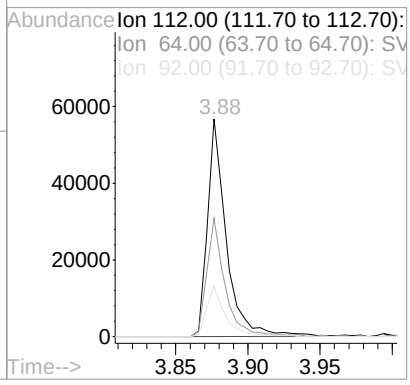


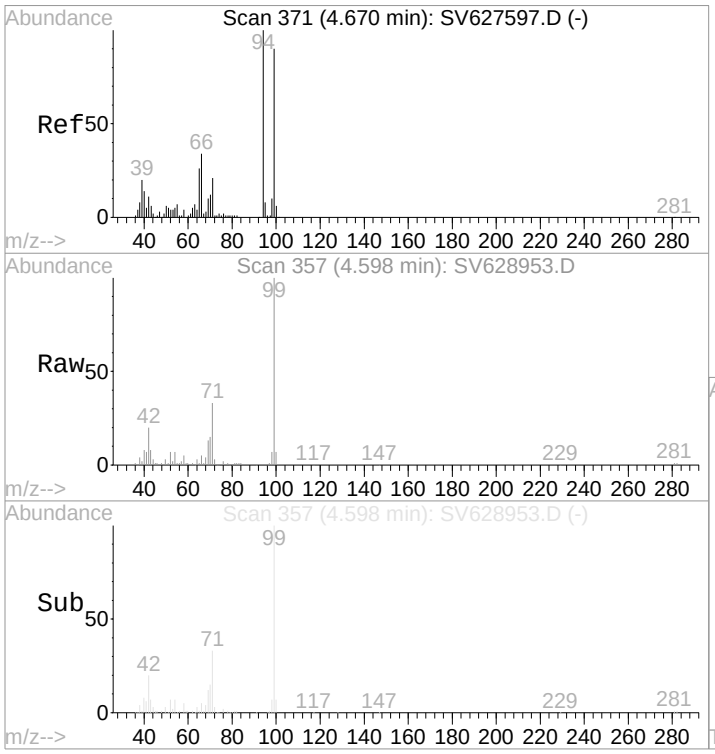


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.88 min Scan# 223
Delta R.T. -0.10 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:112 Resp: 515583

Ion	Ratio	Lower	Upper
112	100		
64	53.2	36.6	54.8
92	23.6	16.2	24.4

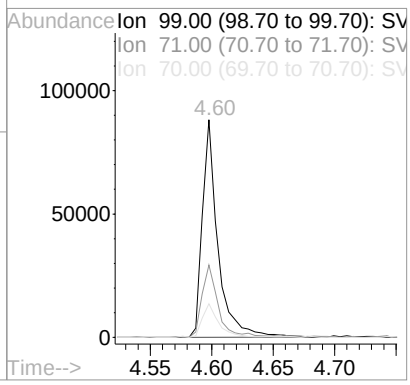


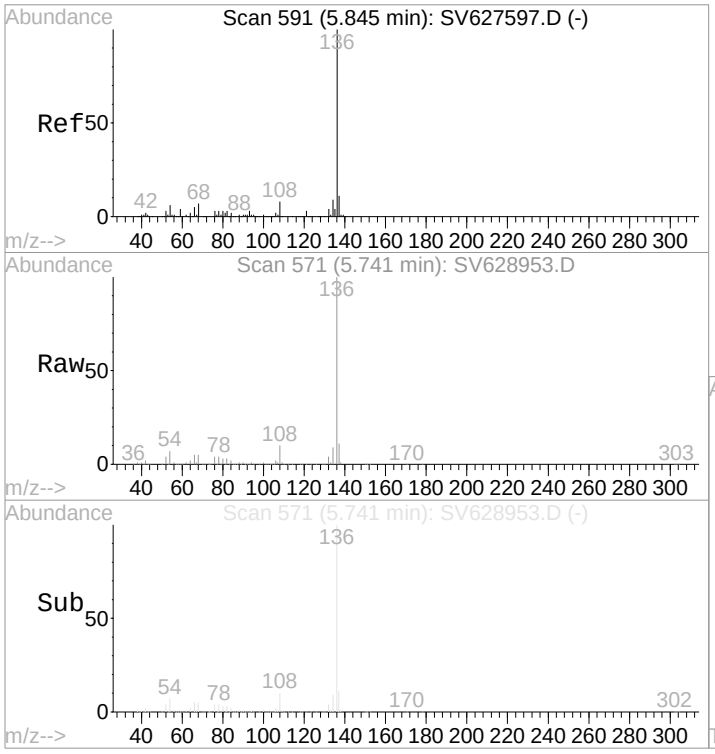


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.60 min Scan# 357
Delta R.T. -0.07 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion: 99 Resp: 776500

Ion	Ratio	Lower	Upper
99	100		
71	34.7	20.5	30.7#
70	16.9	10.3	15.5#

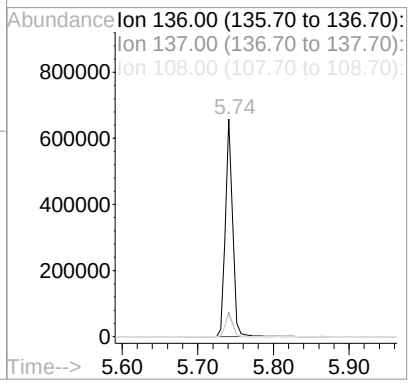


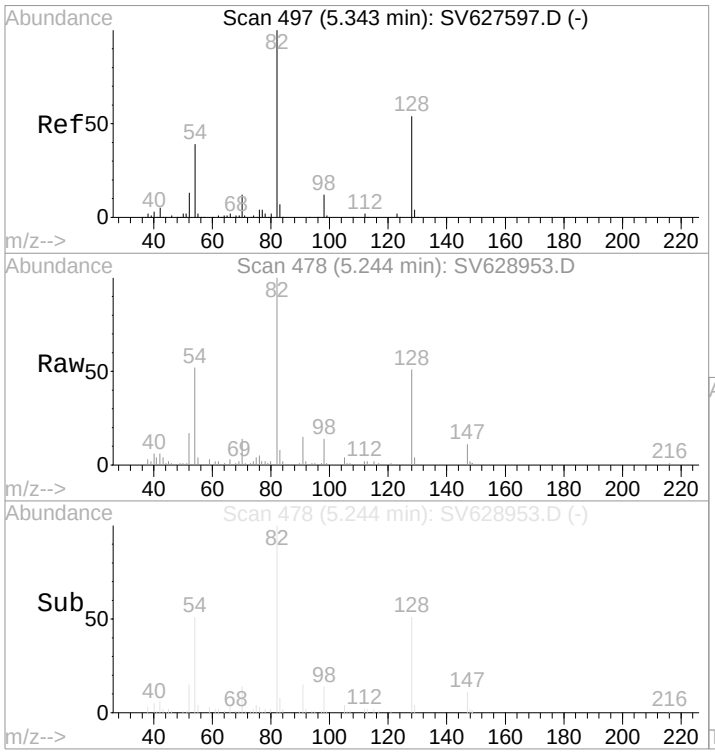


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.74 min Scan# 571
Delta R.T. -0.10 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:136 Resp: 4359504

Ion	Ratio	Lower	Upper
136	100		
137	11.1	5.7	17.0
108	10.0	4.2	12.4

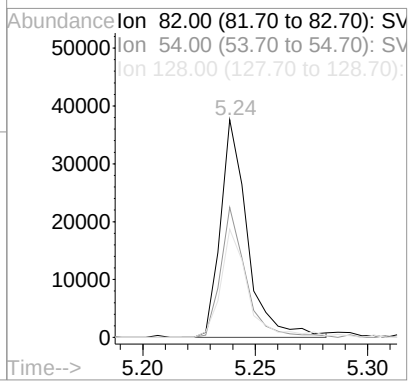


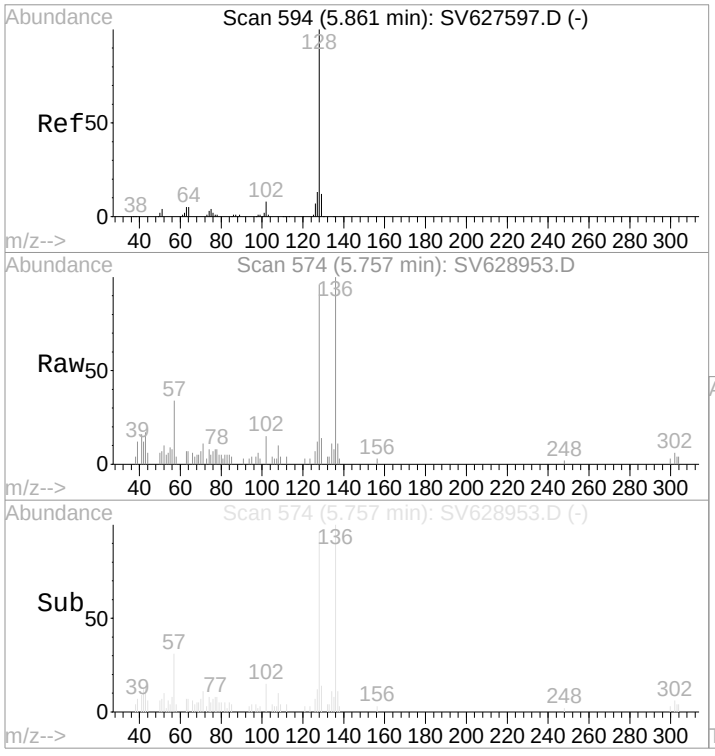


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.24 min Scan# 478
Delta R.T. -0.10 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion: 82 Resp: 312594

Ion	Ratio	Lower	Upper
82	100		
54	56.5	32.4	48.6#
128	51.4	41.3	61.9

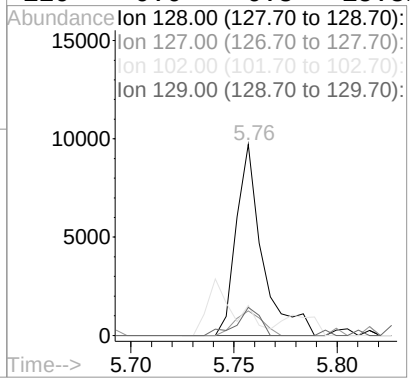


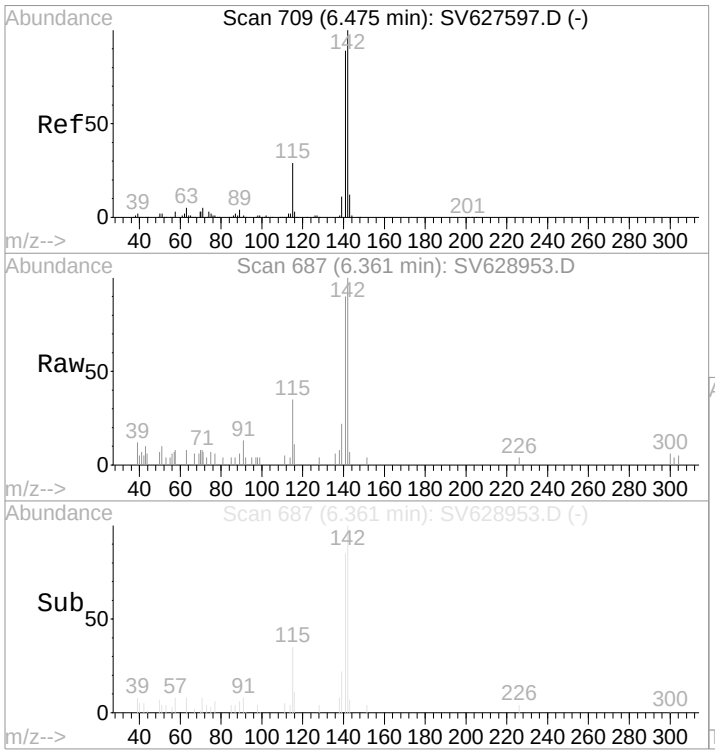


#32
Naphthalene
Concen: 0.76 ug/mL
RT: 5.76 min Scan# 574
Delta R.T. -0.10 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:128 Resp: 84961

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
102	32.0	4.1	12.3#
129	0.0	6.8	15.8#

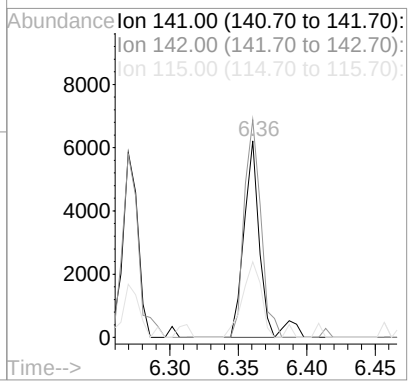


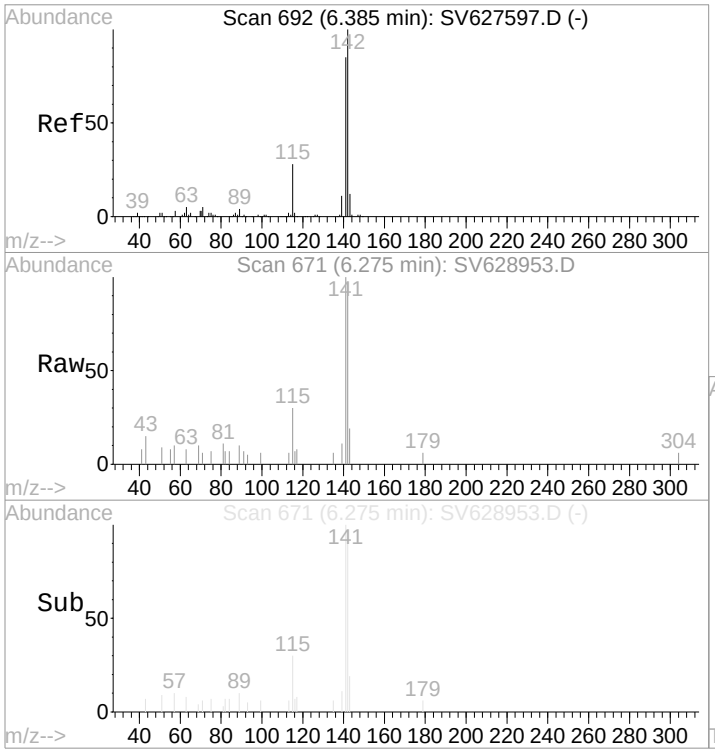


#37
1-Methylnaphthalene
Concen: 0.64 ug/mL m
RT: 6.36 min Scan# 687
Delta R.T. -0.11 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:141 Resp: 50809

Ion	Ratio	Lower	Upper
141	100		
142	90.3	90.6	135.8#
115	30.1	28.2	42.4

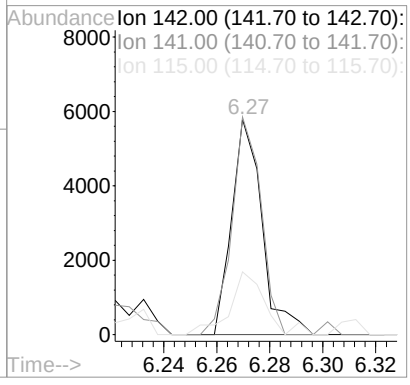


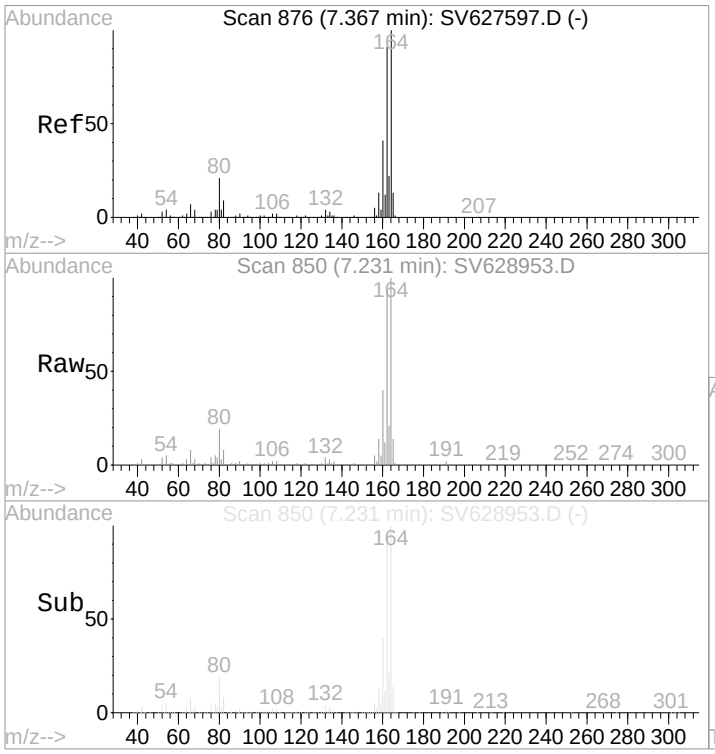


#38
2-Methylnaphthalene
Concen: 0.58 ug/mL
RT: 6.27 min Scan# 671
Delta R.T. -0.11 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:142 Resp: 45905

Ion	Ratio	Lower	Upper
142	100		
141	97.2	67.4	101.2
115	0.0	23.4	35.0#

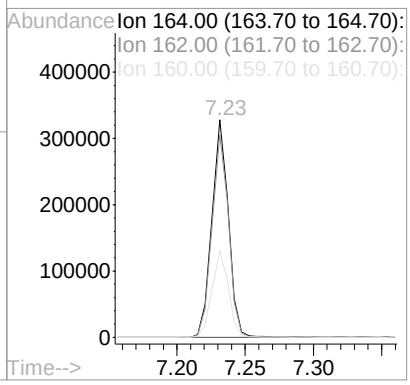


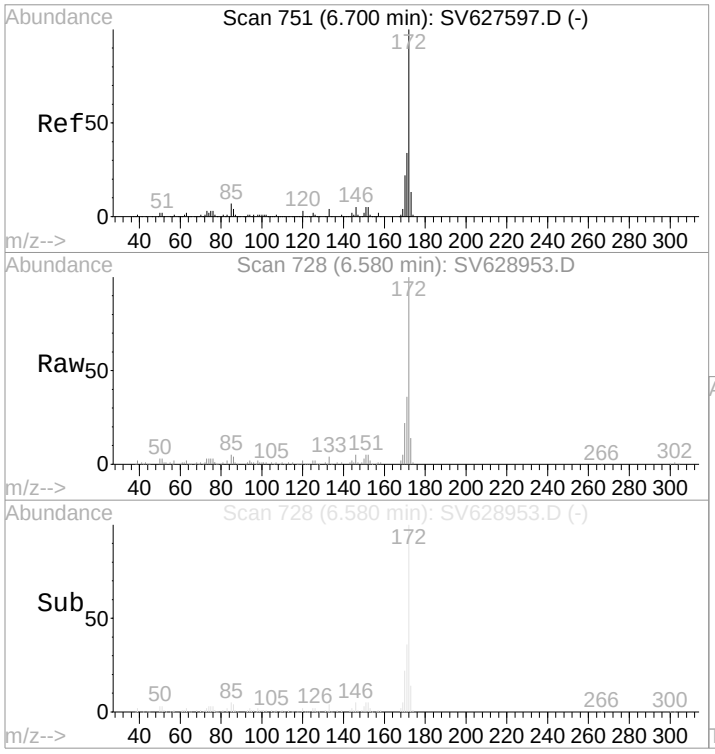


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.23 min Scan# 850
Delta R.T. -0.13 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:164 Resp: 2766045

Ion	Ratio	Lower	Upper
164	100		
162	92.5	46.5	139.3
160	39.5	20.9	62.7

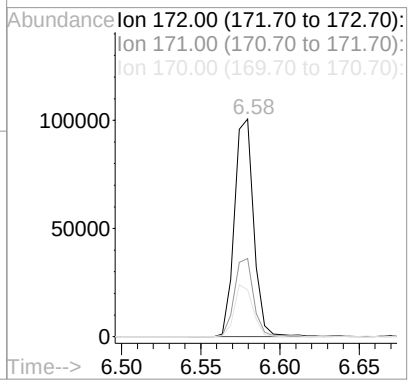


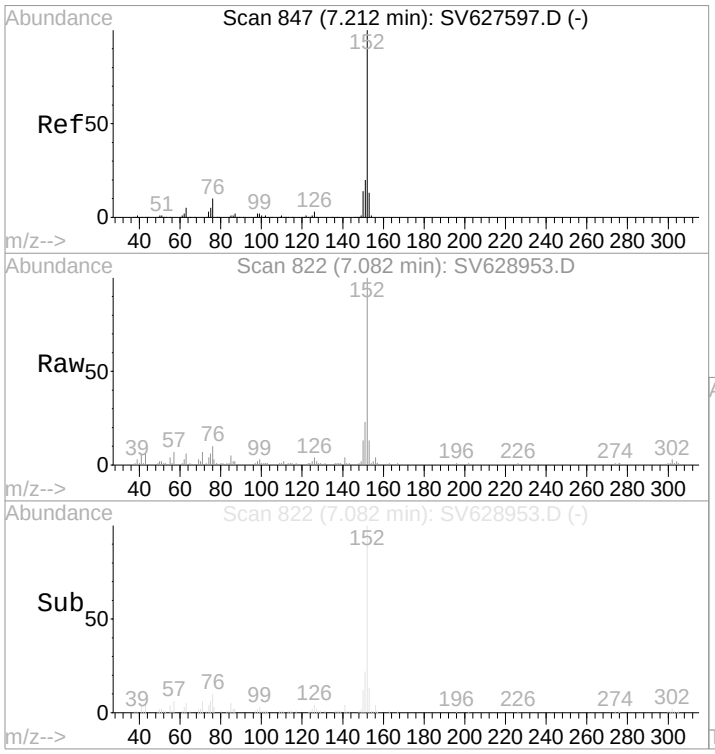


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 728
Delta R.T. -0.12 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:172 Resp: 847270

Ion	Ratio	Lower	Upper
172	100		
171	36.0	27.2	40.8
170	22.9	18.1	27.1

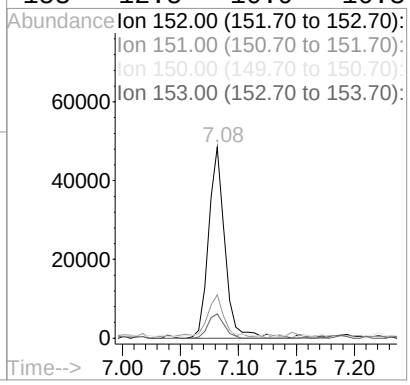


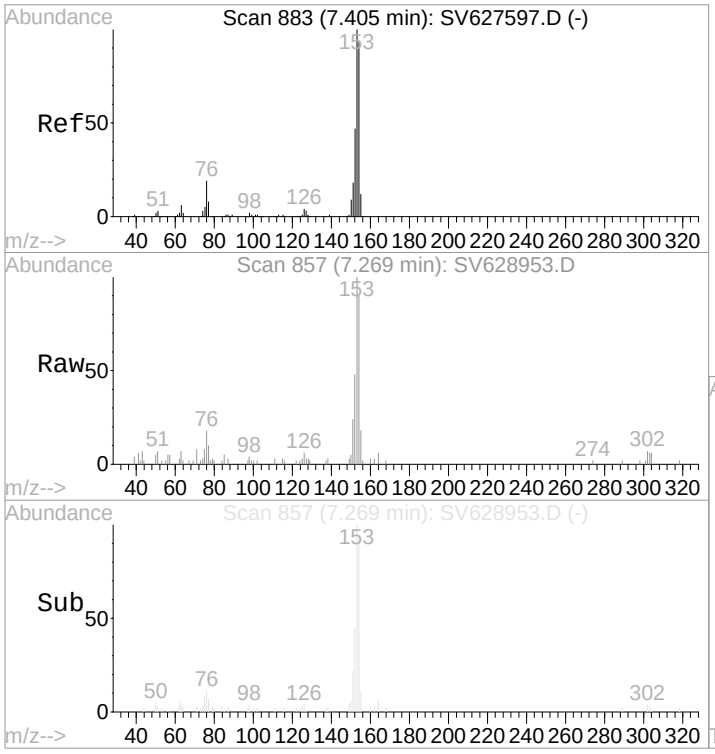


#50
Acenaphthylene
Concen: 3.35 ug/mL
RT: 7.08 min Scan# 822
Delta R.T. -0.13 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:152 Resp: 483095

Ion	Ratio	Lower	Upper
152	100		
151	25.5	15.7	23.5#
150	15.2	11.2	16.8
153	12.5	10.9	16.3

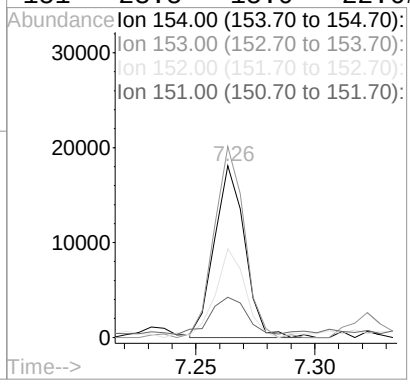


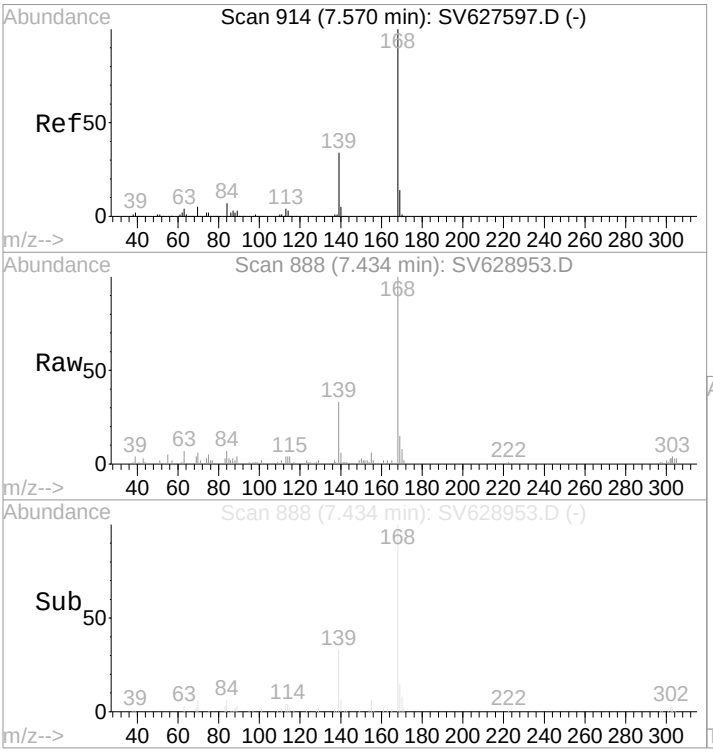


#52
Acenaphthene
Concen: 2.01 ug/mL
RT: 7.27 min Scan# 857
Delta R.T. -0.14 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:154 Resp: 162386

Ion	Ratio	Lower	Upper
154	100		
153	111.4	86.2	129.4
152	47.0	40.4	60.6
151	23.5	15.0	22.6#

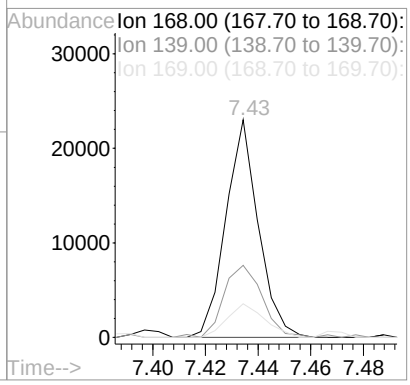


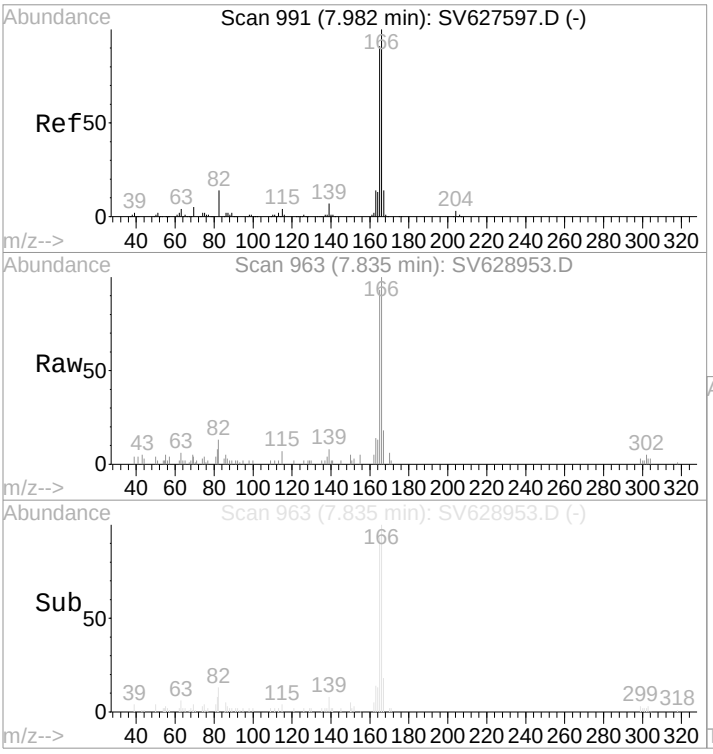


#54
Dibenzofuran
Concen: 1.58 ug/mL
RT: 7.44 min Scan# 888
Delta R.T. -0.14 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:168 Resp: 197889

Ion	Ratio	Lower	Upper
168	100		
139	38.3	26.6	40.0
169	17.8	11.0	16.4#

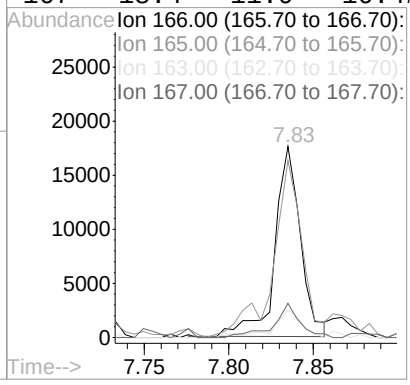


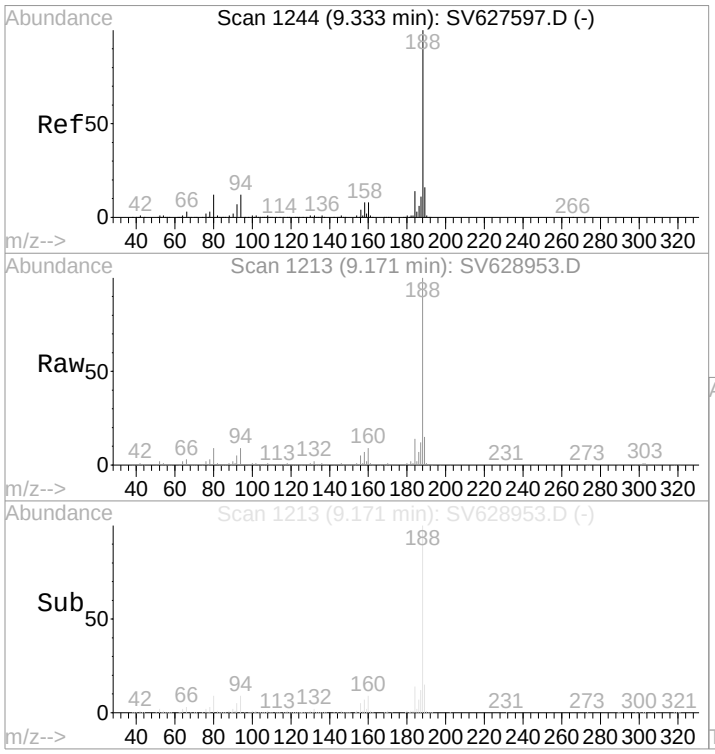


#59
Fluorene
Concen: 1.81 ug/mL
RT: 7.84 min Scan# 963
Delta R.T. -0.15 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:166 Resp: 182883

Ion	Ratio	Lower	Upper
166	100		
165	105.7	72.6	109.0
163	16.3	11.5	17.3
167	18.4	11.0	16.4#

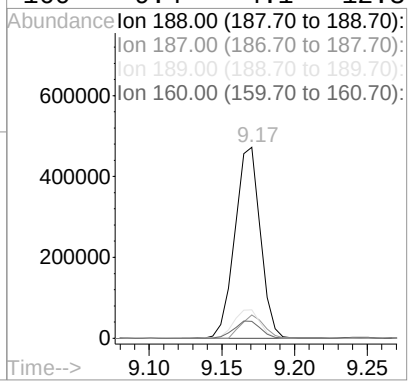


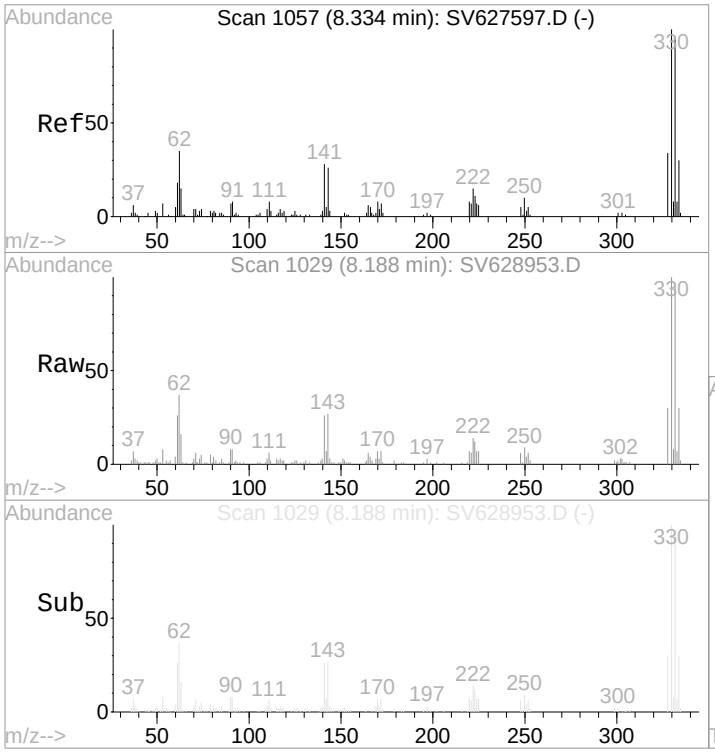


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.17 min Scan# 1213
Delta R.T. -0.16 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:188 Resp: 5752804

Ion	Ratio	Lower	Upper
188	100		
187	10.8	8.4	12.6
189	15.3	8.0	23.8
160	9.4	4.1	12.3

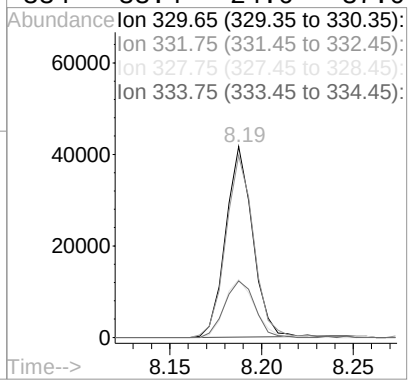


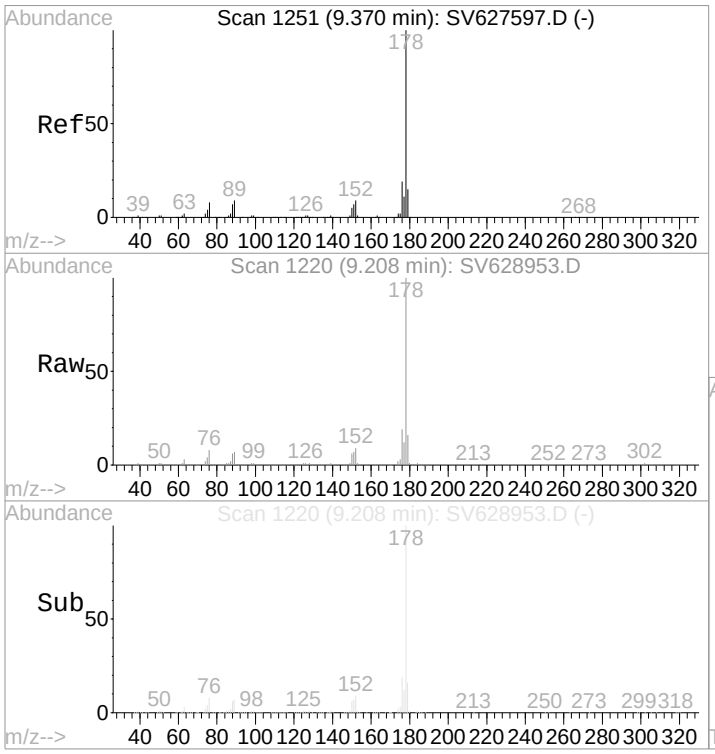


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.19 min Scan# 1029
Delta R.T. -0.14 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:330 Resp: 423955

Ion	Ratio	Lower	Upper
330	100		
332	99.4	74.2	111.2
328	33.5	28.5	42.7
334	33.4	24.6	37.0

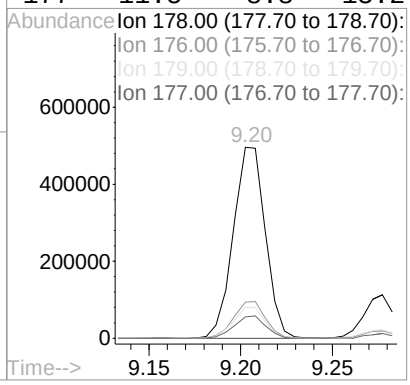


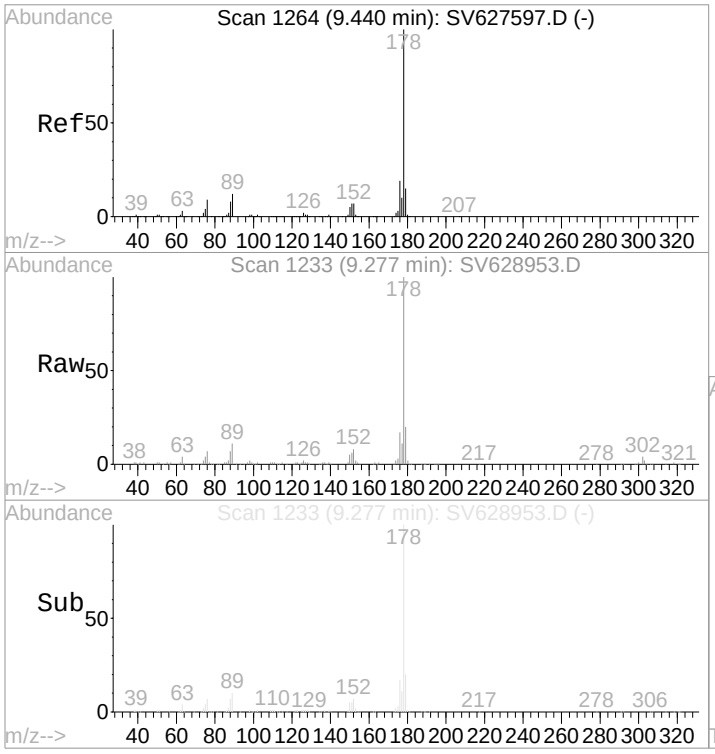


#73
Phenanthrene
Concen: 39.20 ug/mL
RT: 9.21 min Scan# 1220
Delta R.T. -0.16 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:178 Resp: 6025909

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	16.1	12.5	18.7
177	11.5	8.8	13.2

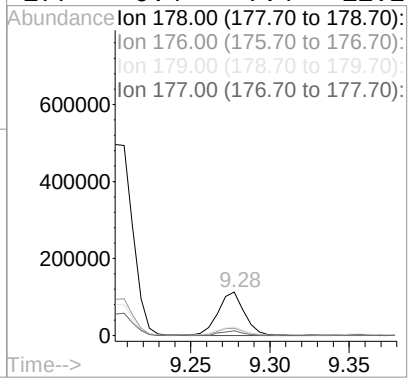


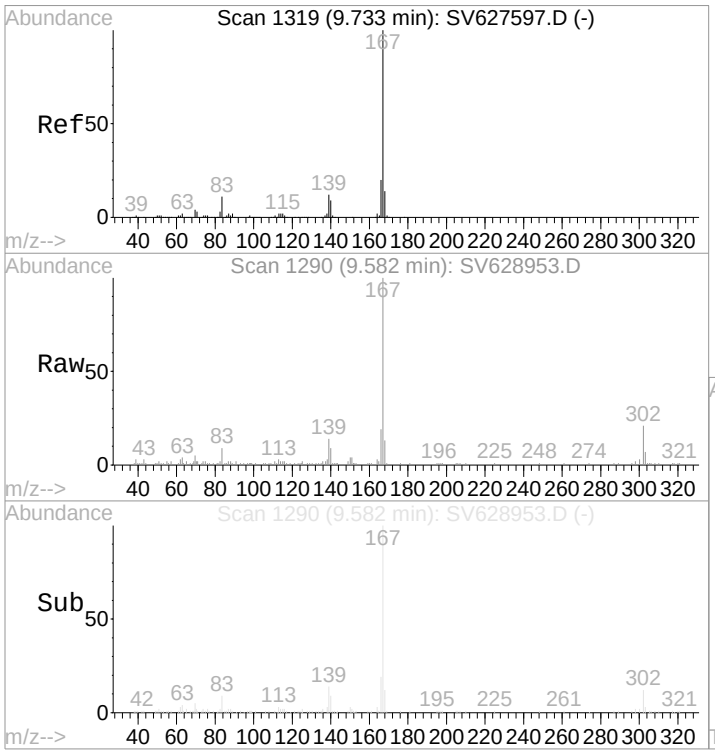


#74
Anthracene
Concen: 8.06 ug/mL
RT: 9.28 min Scan# 1233
Delta R.T. -0.16 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:178 Resp: 1311455

Ion	Ratio	Lower	Upper
178	100		
176	17.7	14.5	21.7
179	20.8	12.5	18.7#
177	9.4	7.4	11.2

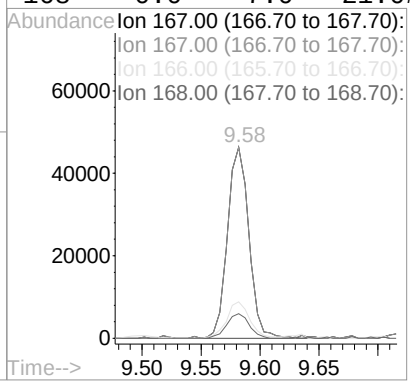


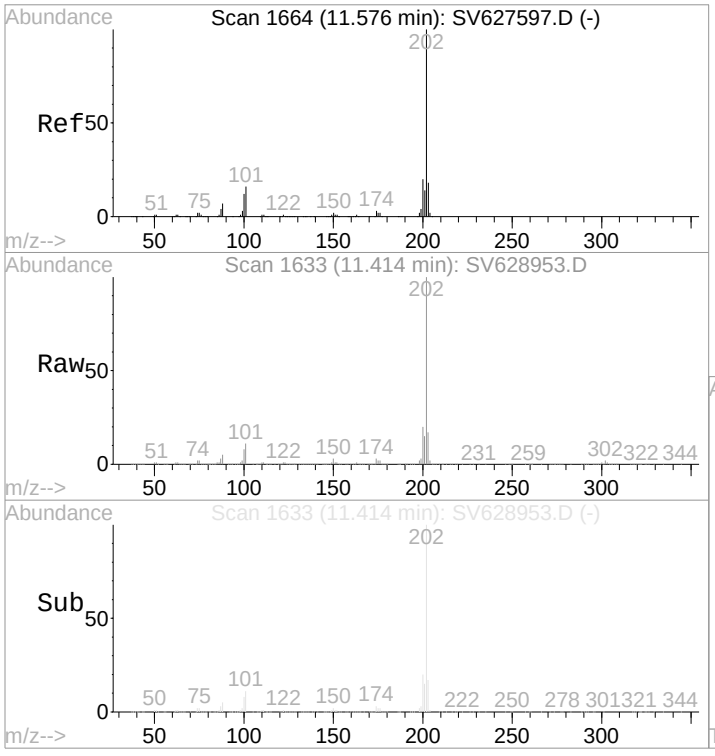


#75
Carbazole
Concen: 3.49 ug/mL
RT: 9.58 min Scan# 1290
Delta R.T. -0.15 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:167 Resp: 590005

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	20.3	0.0	0.0#
168	0.0	7.0	21.0#

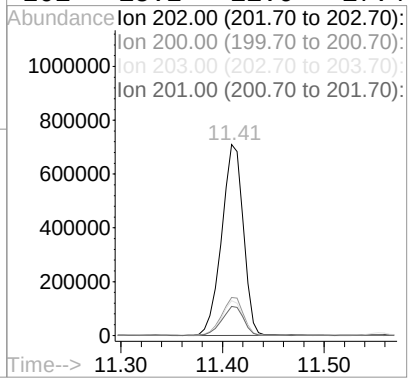


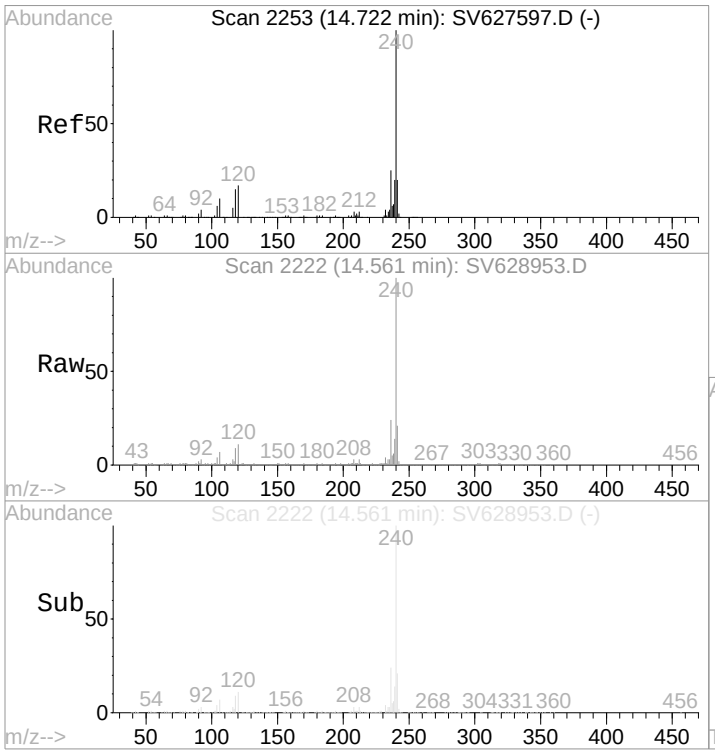


#78
Fluoranthene
Concen: 57.75 ug/mL
RT: 11.41 min Scan# 1633
Delta R.T. -0.16 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:202 Resp:10493569

Ion	Ratio	Lower	Upper
202	100		
200	19.7	15.8	23.6
203	18.0	14.1	21.1
201	15.2	11.6	17.4

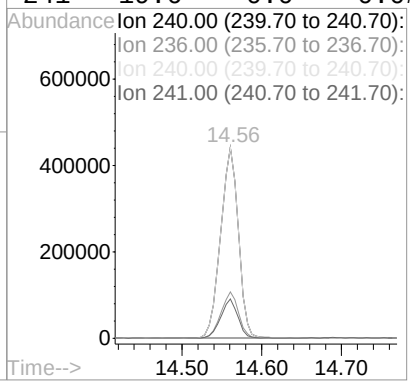


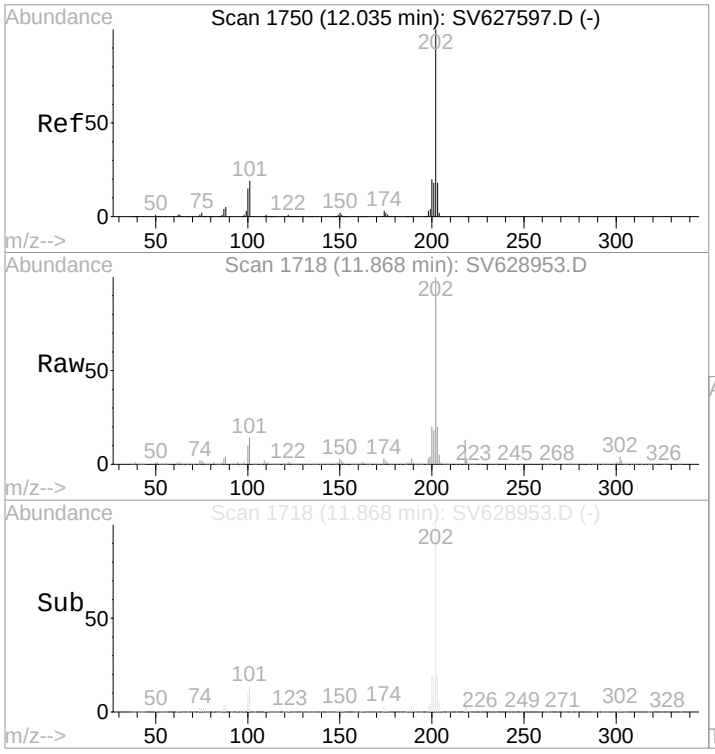


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.56 min Scan# 2222
Delta R.T. -0.16 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:240 Resp: 6821842

Ion	Ratio	Lower	Upper
240	100		
236	0.0	12.2	36.4#
240	100.0	50.0	150.0
241	19.6	0.0	0.0#

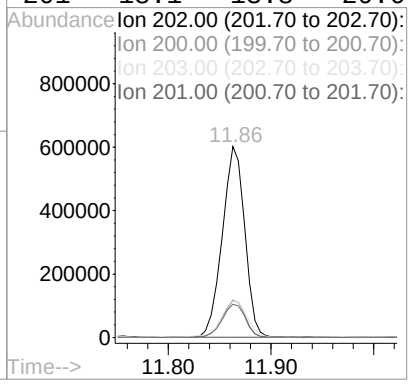


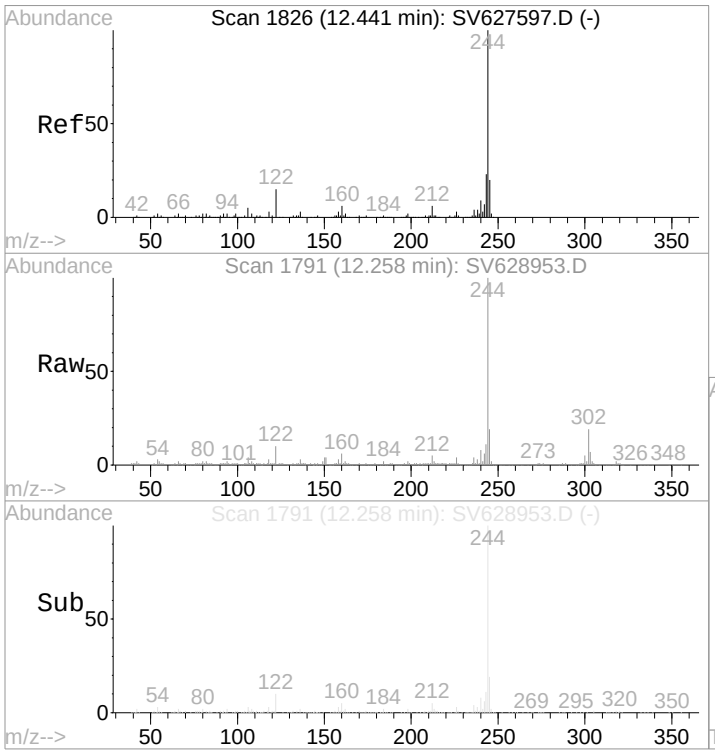


#81
Pyrene
Concen: 36.14 ug/mL
RT: 11.87 min Scan# 1718
Delta R.T. -0.16 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:202 Resp: 9118885

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.2	24.2
203	21.6	14.6	22.0
201	18.1	13.8	20.6

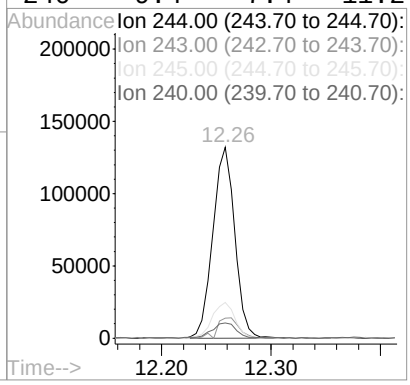


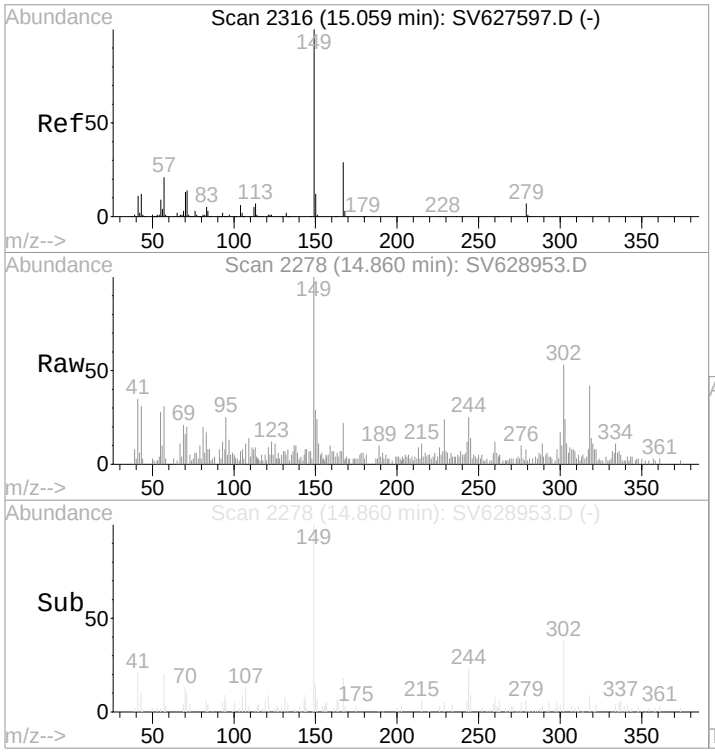


#82
Terphenyl-d14
Concen: 36.14 ug/mL
RT: 12.26 min Scan# 1791
Delta R.T. -0.18 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:244 Resp: 1840285

Ion	Ratio	Lower	Upper
244	100		
243	10.6	18.4	27.6#
245	19.4	15.4	23.0
240	9.4	7.4	11.2

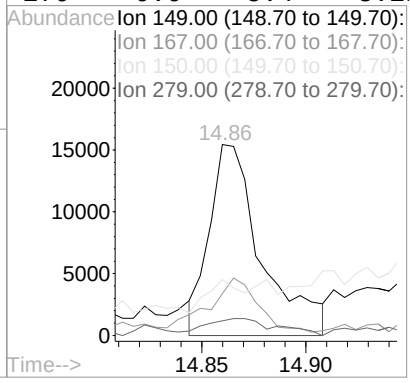


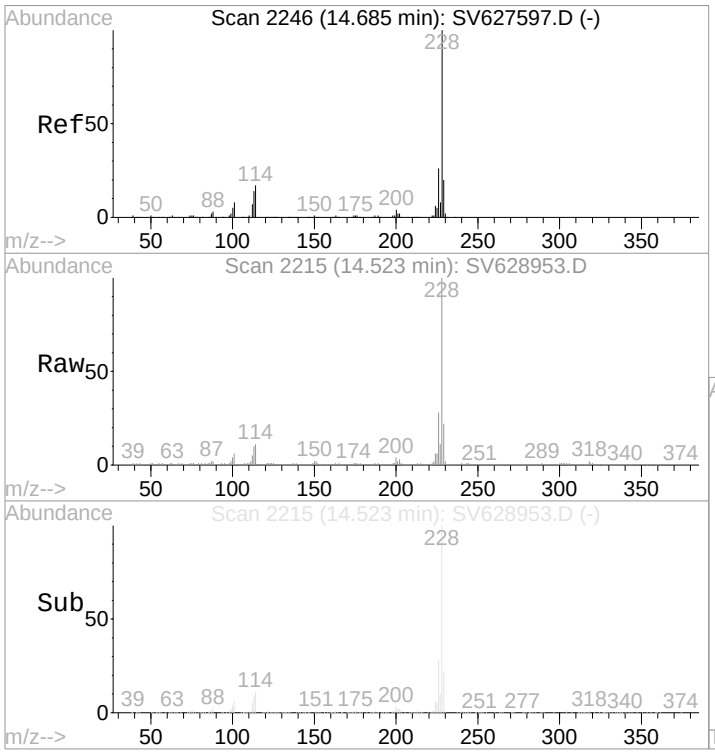


#84
Bis(2-ethylhexyl) phthalate
Concen: 1.71 ug/mL m
RT: 14.86 min Scan# 2278
Delta R.T. -0.20 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:149 Resp: 279534

Ion	Ratio	Lower	Upper
149	100		
167	25.1	23.4	35.0
150	0.0	9.4	14.0#
279	0.0	5.4	8.2#

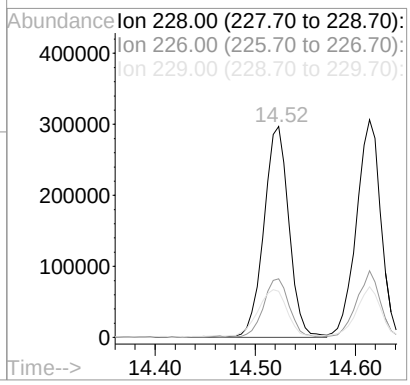


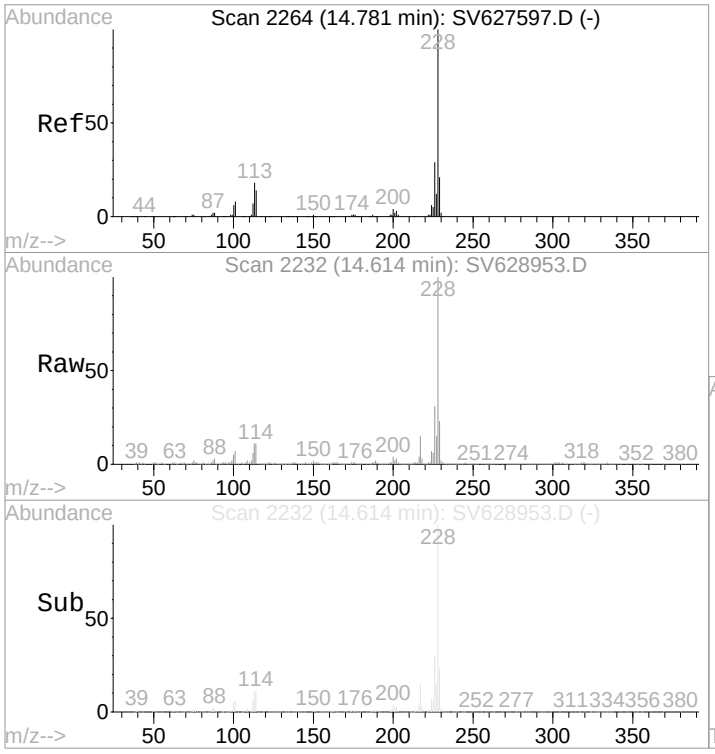


#85
Benz (a) anthracene
Concen: 22.63 ug/mL m
RT: 14.52 min Scan# 2215
Delta R.T. -0.16 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:228 Resp: 5178871

Ion	Ratio	Lower	Upper
228	100		
226	28.6	21.3	31.9
229	22.2	16.4	24.6

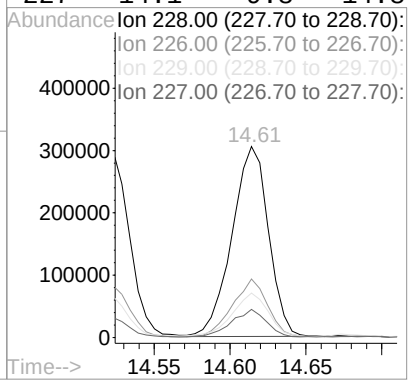


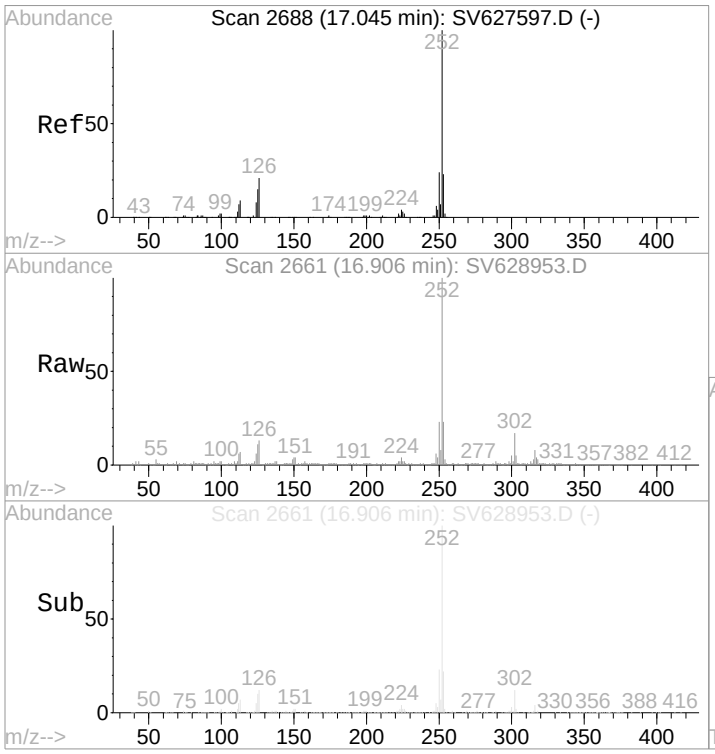


#87
Chrysene
Concen: 23.16 ug/mL
RT: 14.62 min Scan# 2232
Delta R.T. -0.16 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:228 Resp: 5106238

Ion	Ratio	Lower	Upper
228	100		
226	29.1	23.6	35.4
229	22.7	15.5	23.3
227	14.1	9.8	14.8

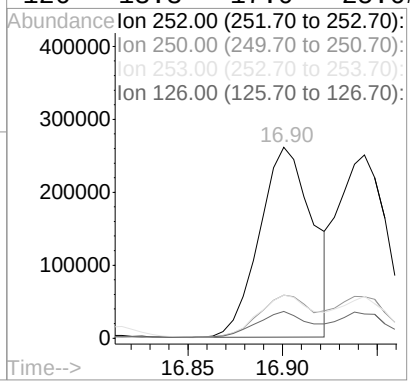


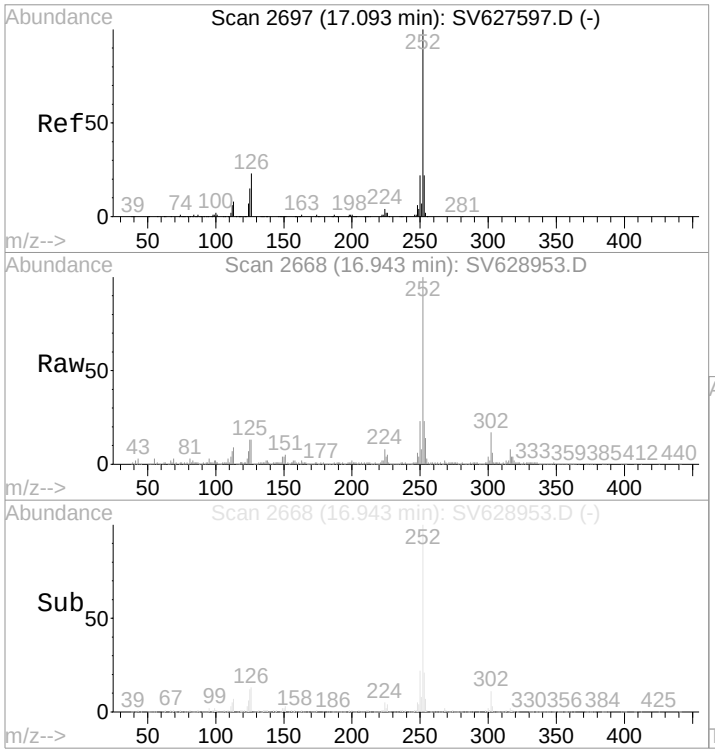


#89
Benzo(b)fluoranthene
Concen: 23.01 ug/mL
RT: 16.90 min Scan# 2661
Delta R.T. -0.13 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:252 Resp: 4779484

Ion	Ratio	Lower	Upper
252	100		
250	21.6	18.2	27.4
253	22.7	17.9	26.9
126	13.3	17.0	25.6#

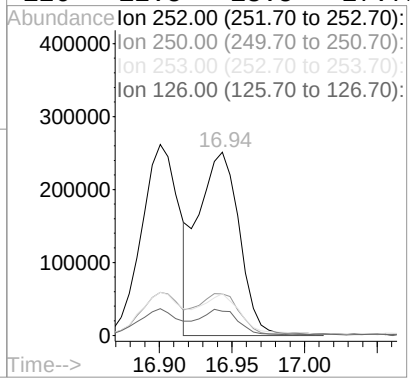


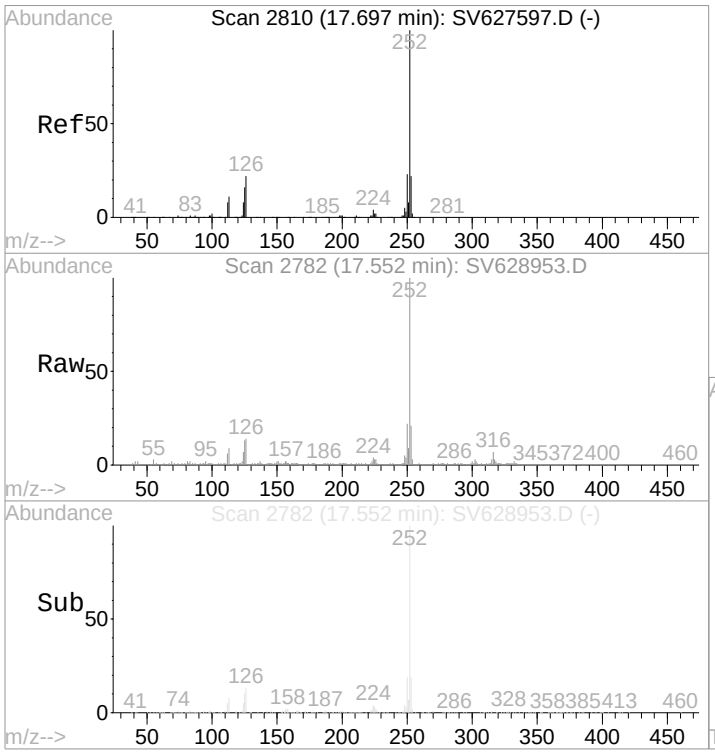


#90
Benzo(k)fluoranthene
Concen: 20.62 ug/mL m
RT: 16.94 min Scan# 2668
Delta R.T. -0.14 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:252 Resp: 5101272

Ion	Ratio	Lower	Upper
252	100		
250	20.1	17.2	25.8
253	21.4	18.1	27.1
126	12.5	18.5	27.7#

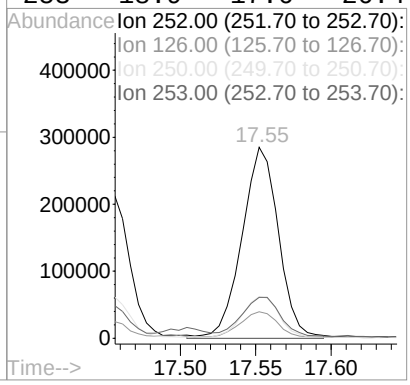


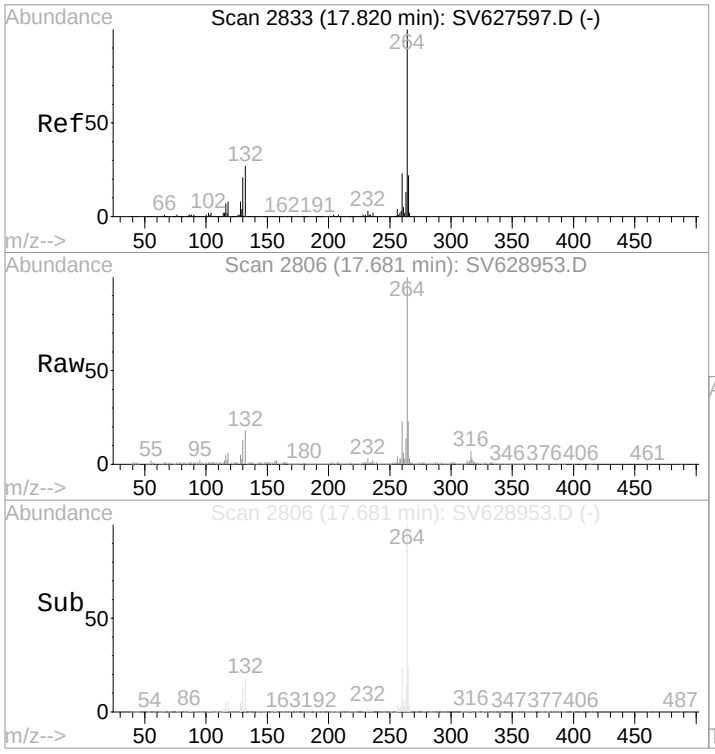


#91
Benzo(a)pyrene
Concen: 23.33 ug/mL m
RT: 17.55 min Scan# 2782
Delta R.T. -0.14 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:252 Resp: 4821351

Ion	Ratio	Lower	Upper
252	100		
126	9.9	18.4	27.6#
250	21.0	17.8	26.8
253	18.9	17.6	26.4

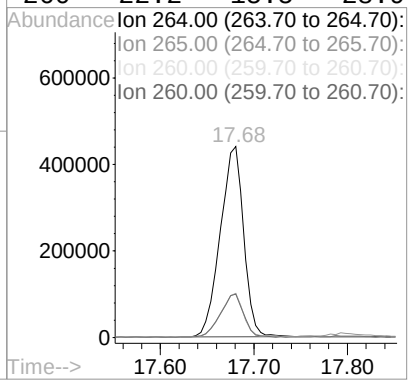


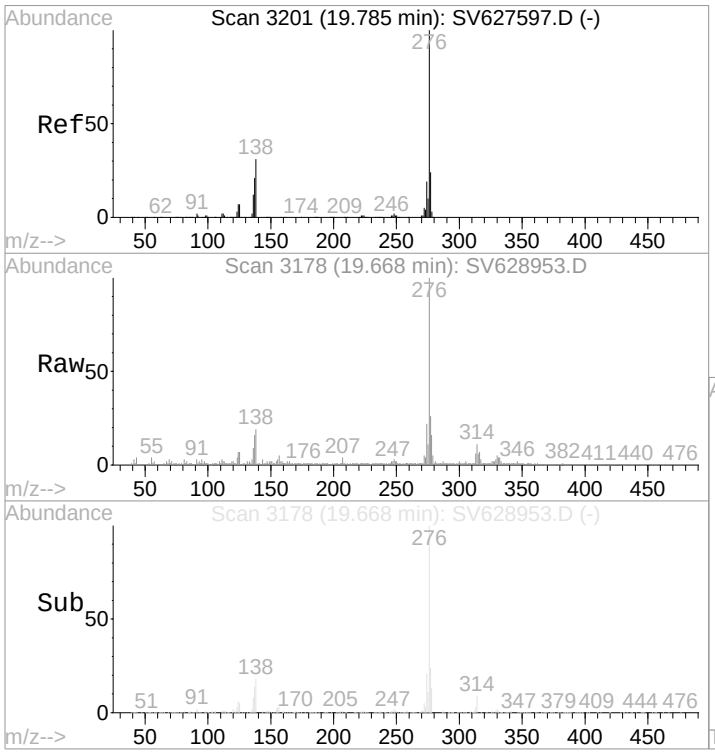


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.68 min Scan# 2806
Delta R.T. -0.14 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:264 Resp: 7674425

Ion	Ratio	Lower	Upper
264	100		
265	22.2	0.0	0.0#
260	22.2	17.8	26.6
260	22.2	15.5	28.9

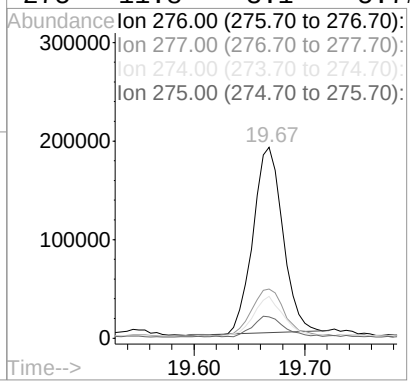


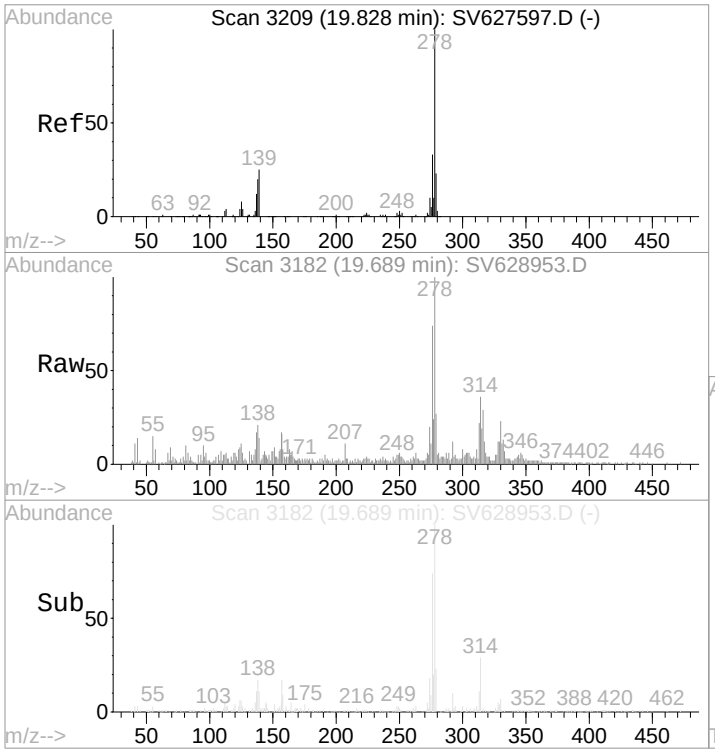


#93
Indeno(1,2,3-cd)pyrene
Concen: 14.81 ug/mL
RT: 19.67 min Scan# 3178
Delta R.T. -0.11 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:276 Resp: 3484319

Ion	Ratio	Lower	Upper
276	100		
277	28.3	12.9	19.3#
274	21.7	10.8	16.2#
275	11.8	3.1	5.7#

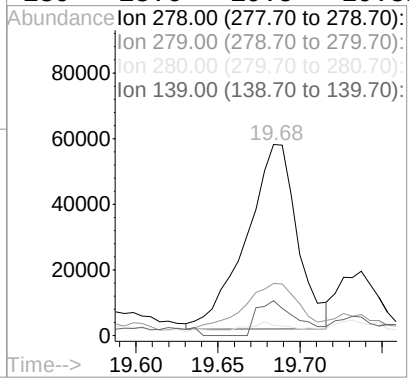


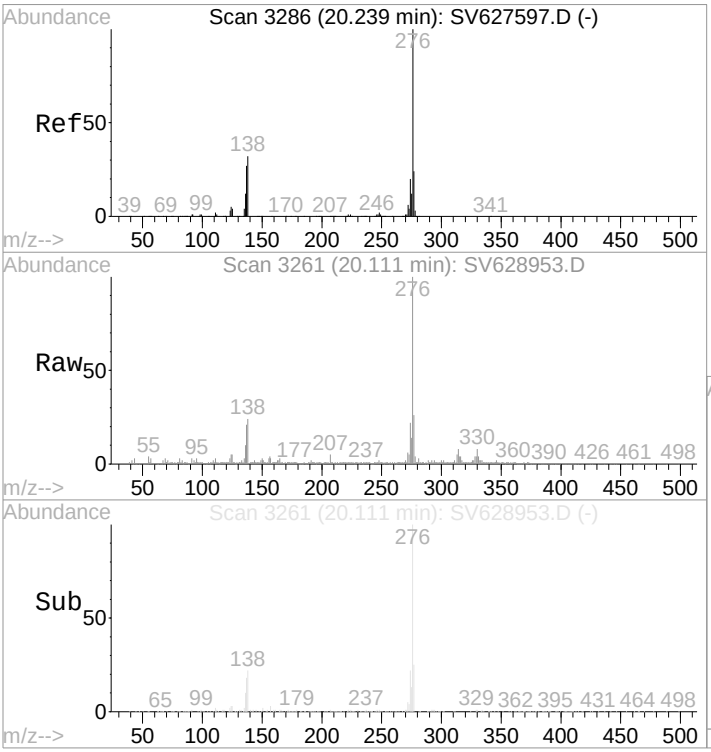


#94
Dibenz(a,h)anthracene
Concen: 7.14 ug/mL
RT: 19.69 min Scan# 3182
Delta R.T. -0.13 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:278 Resp: 1200475

Ion	Ratio	Lower	Upper
278	100		
279	26.5	18.5	27.7
280	0.0	0.0	5.0
139	13.6	19.5	29.3#

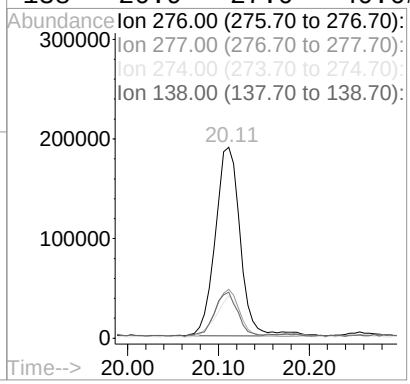




#95
Benzo(g,h,i)perylene
Concen: 16.27 ug/mL
RT: 20.11 min Scan# 3261
Delta R.T. -0.11 min
Lab File: SV628953.D
Acq: 10 Feb 2020 11:03 pm

Tgt Ion:276 Resp: 3613580

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.1	28.7
274	19.8	0.0	42.2
138	20.9	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-3 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-03RE1	File ID:	SV628966.D
Sampled:	02/04/20 12:45	Prepared:	02/10/20 07:21	Analyzed:	02/11/20 11:09
Solids:	87.50	Preparation:	EPA 3550C	Initial/Final:	20.1 g / 1 mL
Batch:	BB00363	Sequence:	Y0B1127	Calibration:	YL90003
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
206-44-0	Fluoranthene	5	7090	D
129-00-0	Pyrene	5	4480	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2840	1640	57.8	20 - 108	
SURR: Phenol-d5	2840	1930	67.9	23 - 114	
SURR: Nitrobenzene-d5	1420	932	65.6	22 - 108	
SURR: 2-Fluorobiphenyl	1420	1060	74.4	21 - 113	
SURR: 2,4,6-Tribromophenol	2840	3420	120	19 - 110	*
SURR: Terphenyl-d14	1420	1300	91.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	935644	4.8	819990	4.8	
ISTD: Naphthalene-d8	3976133	5.75	3574569	5.74	
ISTD: Acenaphthene-d10	2455159	7.24	2127881	7.24	
ISTD: Phenanthrene-d10	5022108	9.17	4393448	9.17	
ISTD: Chrysene-d12	5926431	14.56	4923971	14.56	
ISTD: Perylene-d12	7094251	17.68	5758184	17.67	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021120A\SV628966.D Vial: 7
Acq On : 11 Feb 2020 11:09 am Operator: OW
Sample : 20B0093-03RE1 Inst : BNA#6
Misc : QBSV6021120A RE 5X 8270 COMP Multiplr: 5.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:38 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

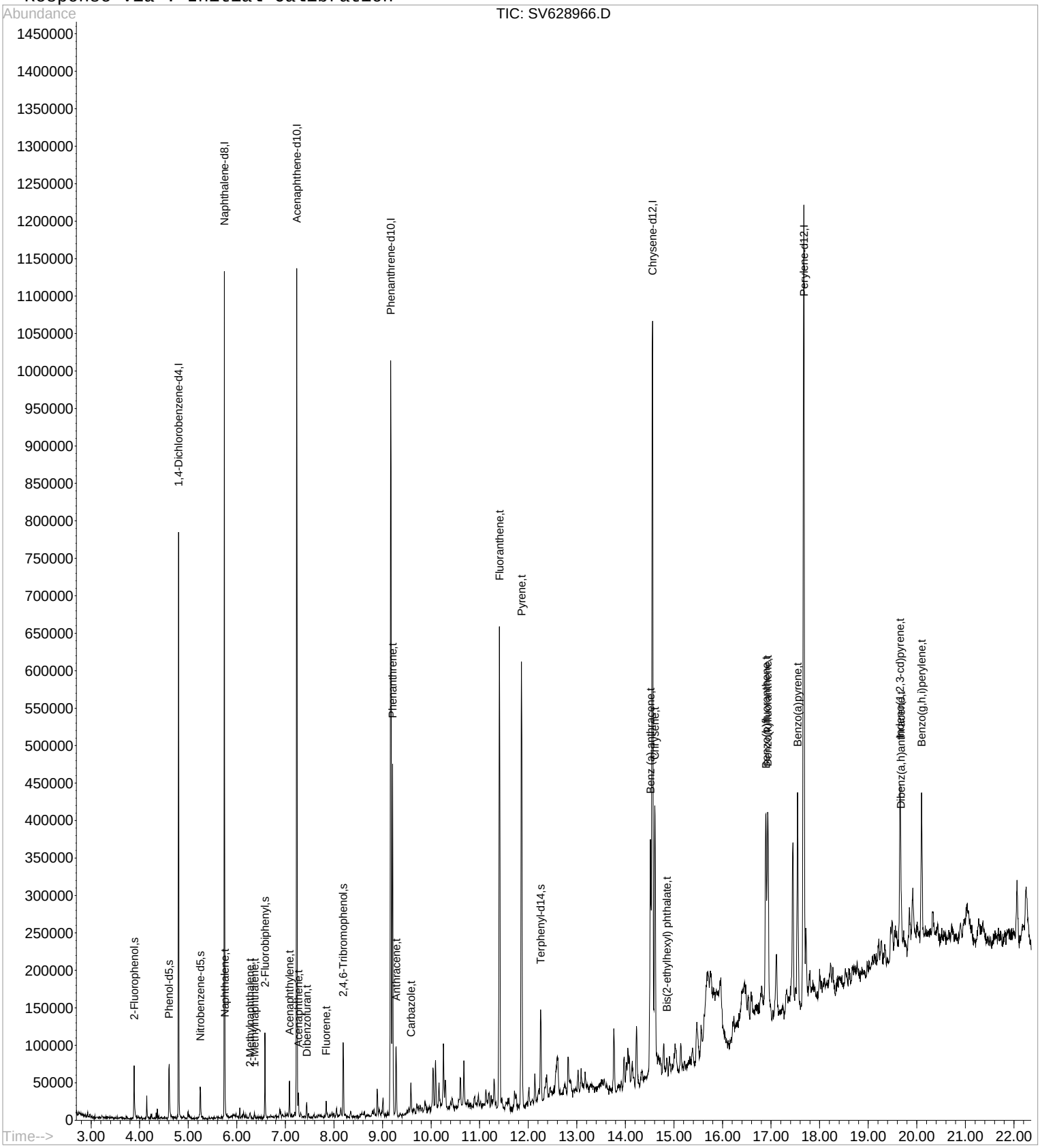
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	935644	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.75	136	3976133	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2455159	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	5022108	40.00	ug/mL	-0.16
80) Chrysene-d12	14.56	240	5926431	40.00	ug/mL	-0.16
92) Perylene-d12	17.68	264	7094251	40.00	ug/mL	-0.14
System Monitoring Compounds						
4) 2-Fluorophenol	3.89	112	197413	5.78	ug/mL	-0.09
Spiked Amount 75.000	Range 15 - 87		Recovery =	7.71%#		
5) Phenol-d5	4.61	99	293154	6.79	ug/mL	-0.06
Spiked Amount 75.000	Range 10 - 100		Recovery =	9.05%#		
22) Nitrobenzene-d5	5.25	82	114992	3.28	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery =	6.56%#		
45) 2-Fluorobiphenyl	6.58	172	315300	3.72	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery =	7.44%#		
67) 2,4,6-Tribromophenol	8.19	330	153058	12.03	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery =	16.04%#		
82) Terphenyl-d14	12.26	244	660425	4.57	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery =	9.14%#		
Target Compounds						Qvalue
32) Naphthalene	5.76	128	25333	0.25	ug/mL#	38
37) 1-Methylnaphthalene	6.37	141	23337	0.32	ug/mL#	86
38) 2-Methylnaphthalene	6.28	142	16954	0.23	ug/mL#	17
50) Acenaphthylene	7.09	152	183020	1.43	ug/mL#	95
52) Acenaphthene	7.27	154	60817	0.85	ug/mL#	87
54) Dibenzofuran	7.44	168	74519	0.67	ug/mL#	85
59) Fluorene	7.84	166	77487	0.87	ug/mL#	70
73) Phenanthrene	9.21	178	2281240	17.00	ug/mL	99
74) Anthracene	9.28	178	474105	3.34	ug/mL#	94
75) Carbazole	9.59	167	213291	1.45	ug/mL#	100
78) Fluoranthene	11.41	202	3955718	24.94	ug/mL	99
81) Pyrene	11.86	202	3455330	15.77	ug/mL	97
84) Bis(2-ethylhexyl) phthalat	14.85	149	93892m	0.66	ug/mL	
85) Benz (a) anthracene	14.52	228	1990979m	10.01	ug/mL	
87) Chrysene	14.61	228	1972773	10.30	ug/mL	97
89) Benzo(b)fluoranthene	16.90	252	1836814	10.18	ug/mL#	93
90) Benzo(k)fluoranthene	16.93	252	1885367m	8.77	ug/mL	
91) Benzo(a)pyrene	17.55	252	1894088m	10.55	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.66	276	1375447	6.33	ug/mL#	80
94) Dibenz(a,h)anthracene	19.68	278	455378	2.93	ug/mL#	82
95) Benzo(g,h,i)perylene	20.10	276	1389112	6.76	ug/mL#	90

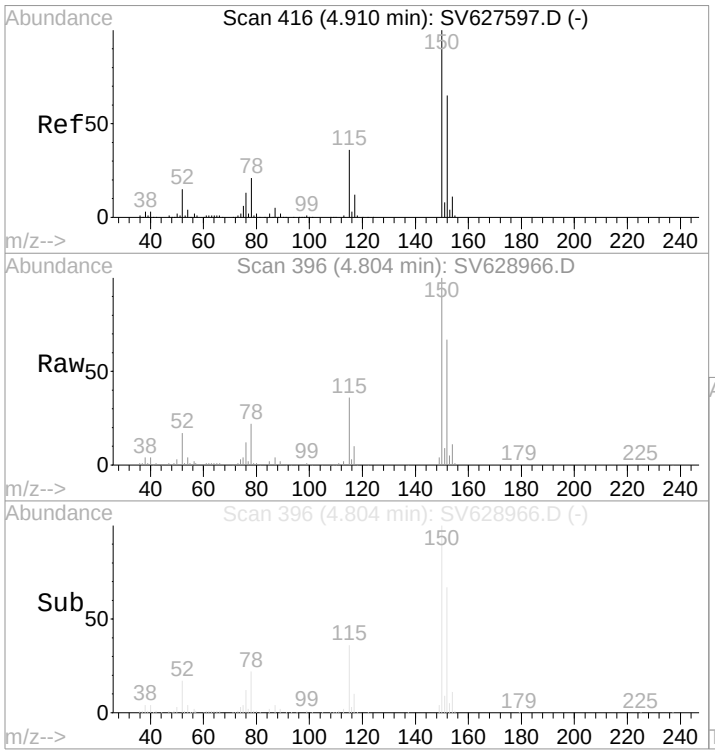
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021120A\SV628966.D Vial: 7
Acq On : 11 Feb 2020 11:09 am Operator: OW
Sample : 20B0093-03RE1 Inst : BNA#6
Misc : QBSV6021120A RE 5X 8270 COMP Multiplr: 5.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:38 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

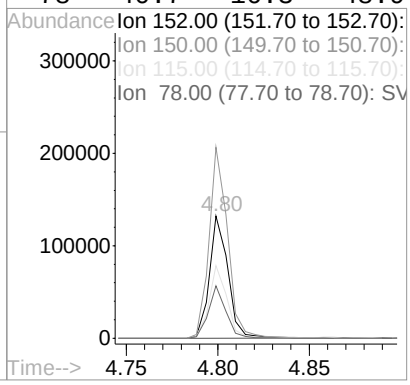


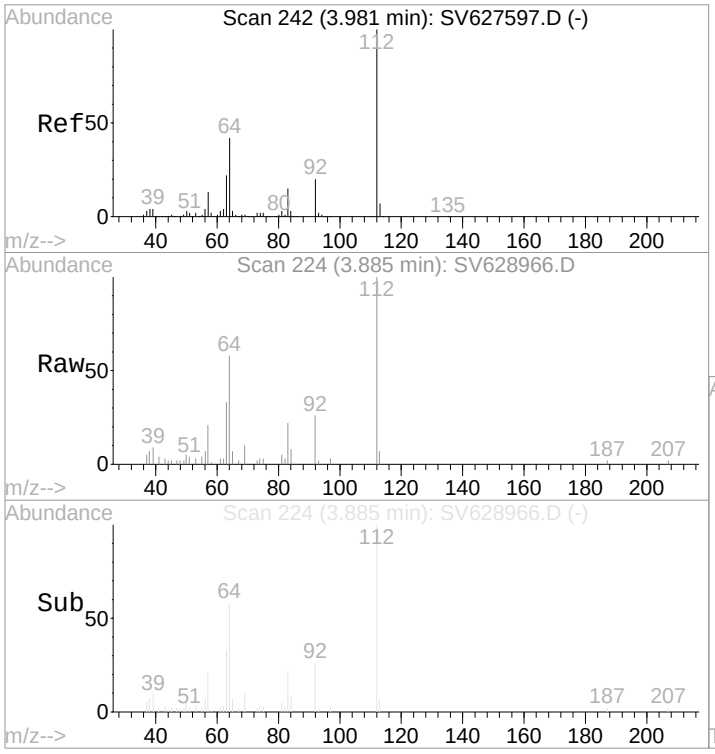


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 396
Delta R.T. -0.11 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:152 Resp: 935644

Ion	Ratio	Lower	Upper
152	100		
150	155.0	84.8	254.4
115	56.2	27.5	82.4
78	40.7	16.3	48.9

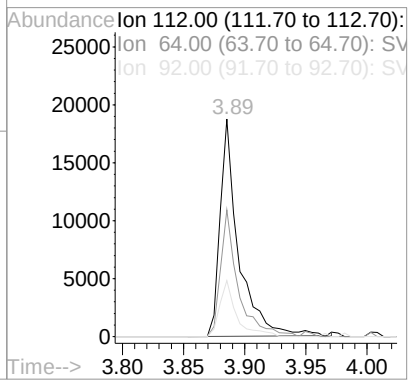


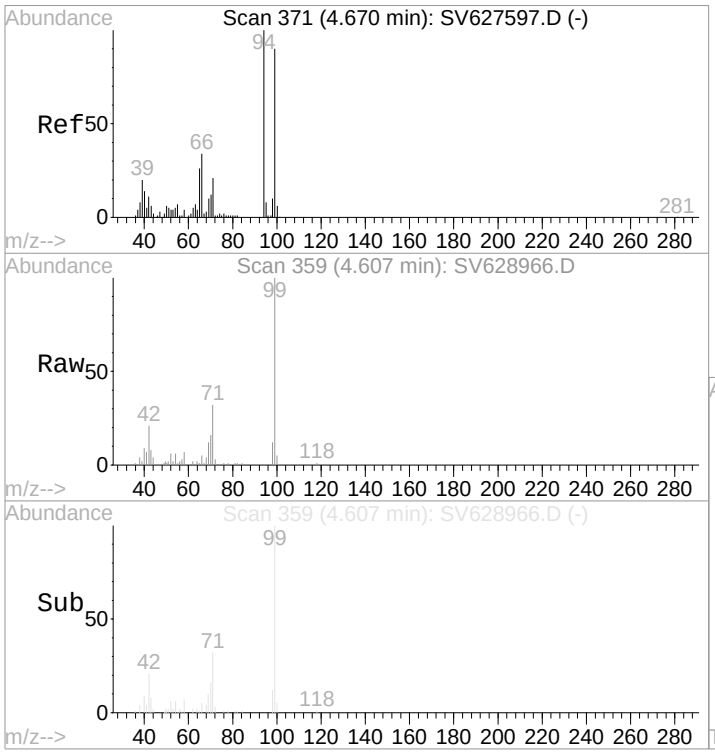


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.89 min Scan# 224
Delta R.T. -0.09 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:112 Resp: 197413

Ion	Ratio	Lower	Upper
112	100		
64	54.3	36.6	54.8
92	23.6	16.2	24.4

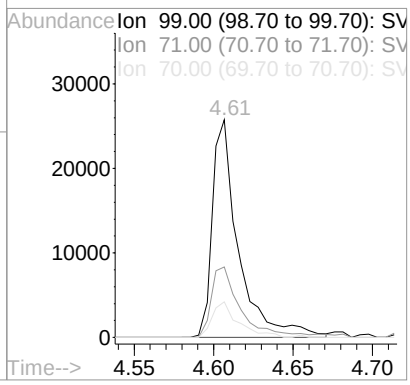


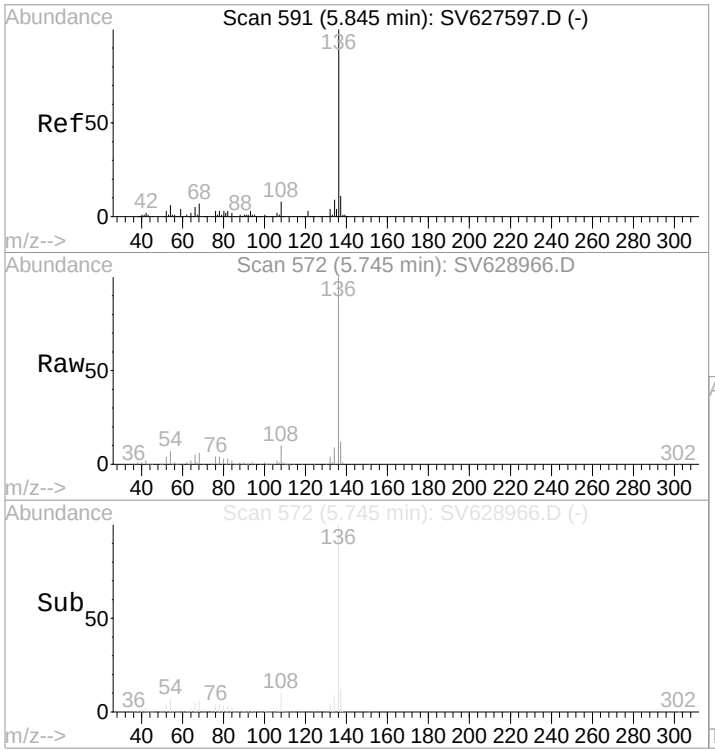


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.61 min Scan# 359
Delta R.T. -0.06 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion: 99 Resp: 293154

Ion	Ratio	Lower	Upper
99	100		
71	37.5	20.5	30.7#
70	16.3	10.3	15.5#

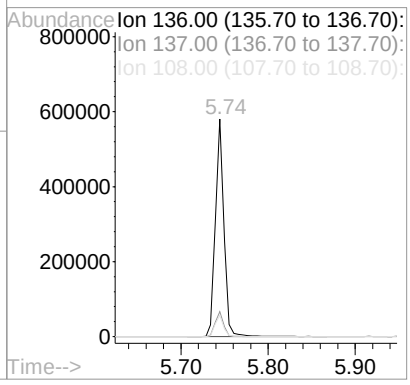


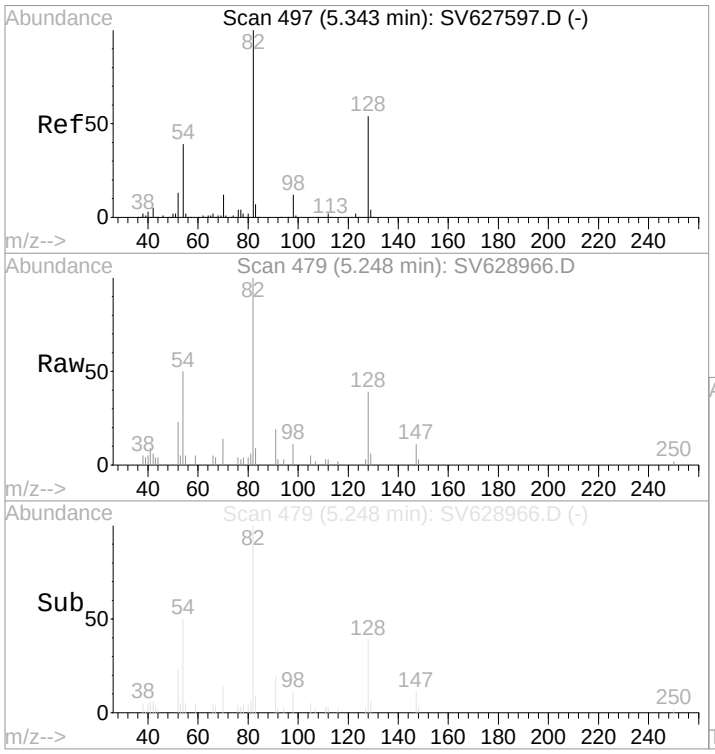


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.75 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:136 Resp: 3976133

Ion	Ratio	Lower	Upper
136	100		
137	11.4	5.7	17.0
108	9.6	4.2	12.4

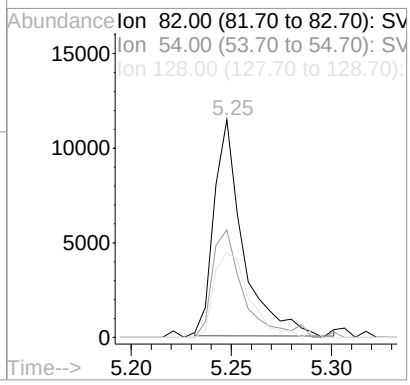


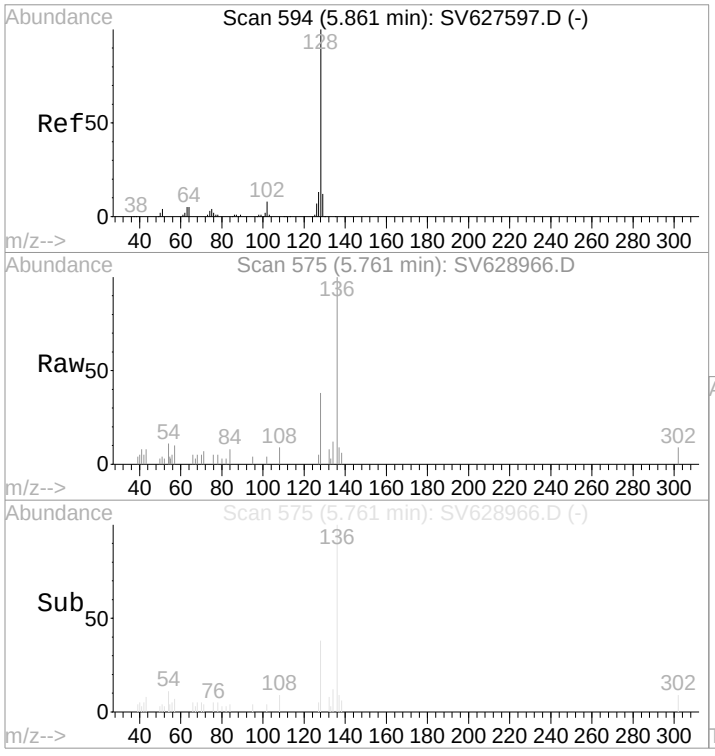


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.25 min Scan# 479
Delta R.T. -0.10 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion: 82 Resp: 114992

Ion	Ratio	Lower	Upper
82	100		
54	53.7	32.4	48.6#
128	49.1	41.3	61.9

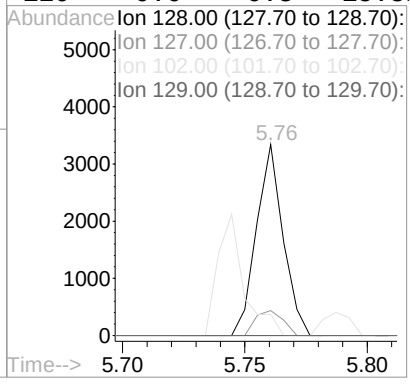


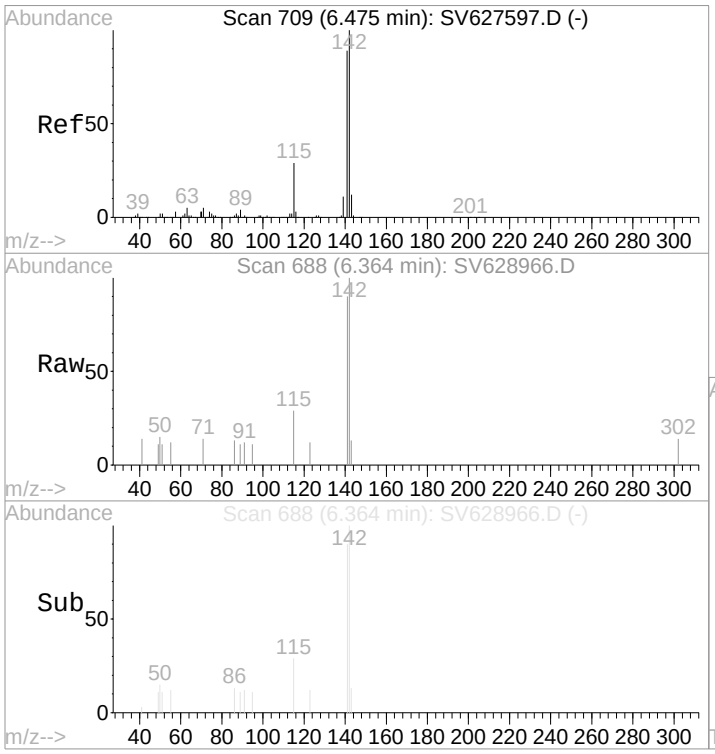


#32
Naphthalene
Concen: 0.25 ug/mL
RT: 5.76 min Scan# 575
Delta R.T. -0.10 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:128 Resp: 25333

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
102	62.3	4.1	12.3#
129	0.0	6.8	15.8#

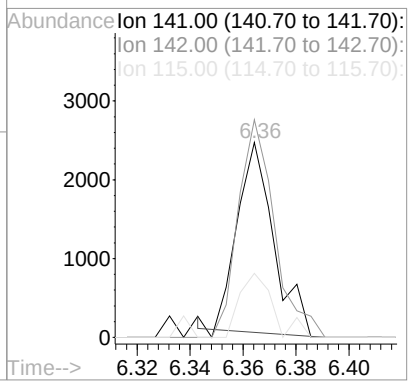


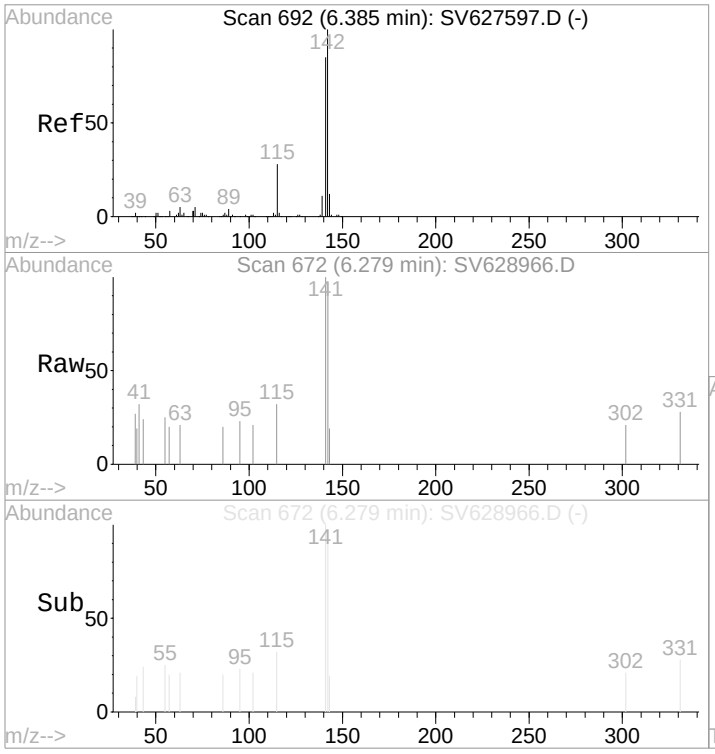


#37
1-Methylnaphthalene
Concen: 0.32 ug/mL
RT: 6.37 min Scan# 688
Delta R.T. -0.11 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:141 Resp: 23337

Ion	Ratio	Lower	Upper
141	100		
142	113.3	90.6	135.8
115	0.0	28.2	42.4#

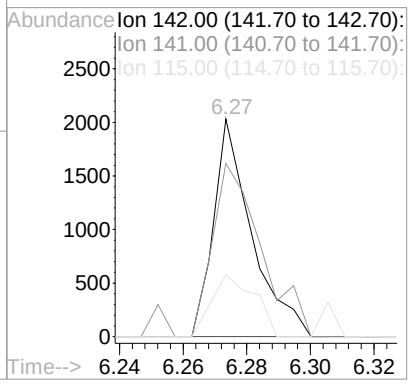


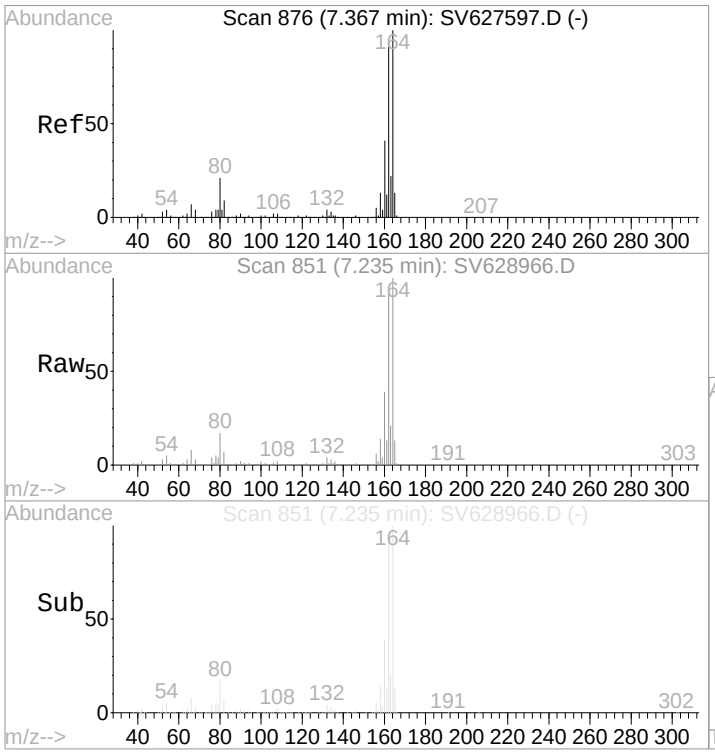


#38
2-Methylnaphthalene
Concen: 0.23 ug/mL
RT: 6.28 min Scan# 672
Delta R.T. -0.11 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:142 Resp: 16954

Ion	Ratio	Lower	Upper
142	100		
141	0.0	67.4	101.2#
115	0.0	23.4	35.0#

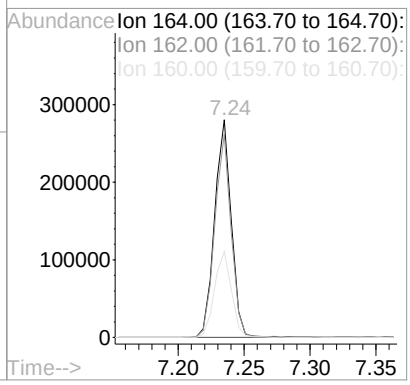


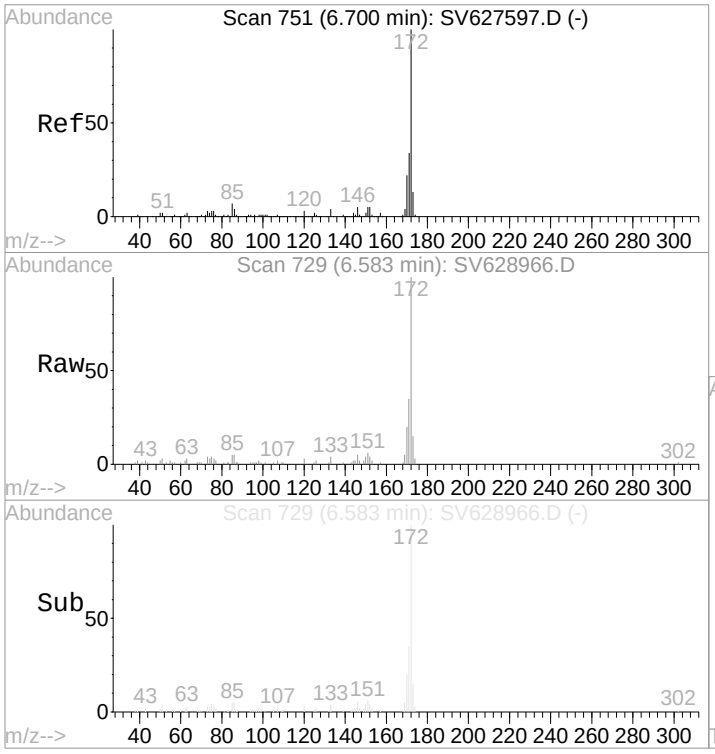


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.24 min Scan# 851
Delta R.T. -0.13 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:164 Resp: 2455159

Ion	Ratio	Lower	Upper
164	100		
162	91.7	46.5	139.3
160	40.2	20.9	62.7

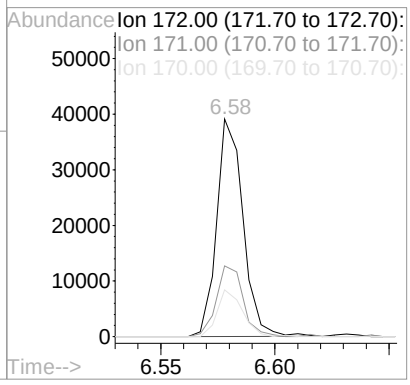


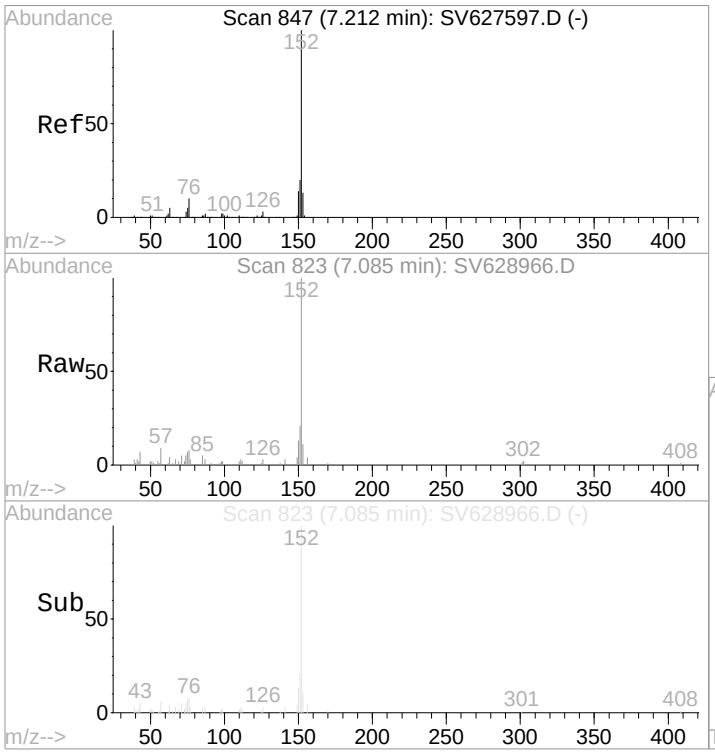


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 729
Delta R.T. -0.12 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:172 Resp: 315300

Ion	Ratio	Lower	Upper
172	100		
171	33.1	27.2	40.8
170	20.7	18.1	27.1

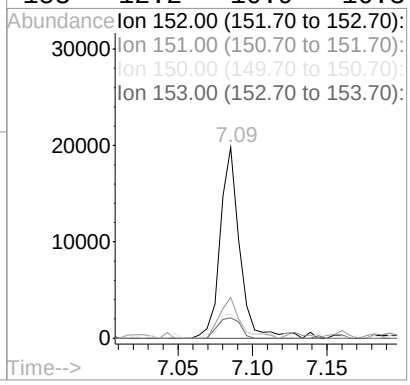


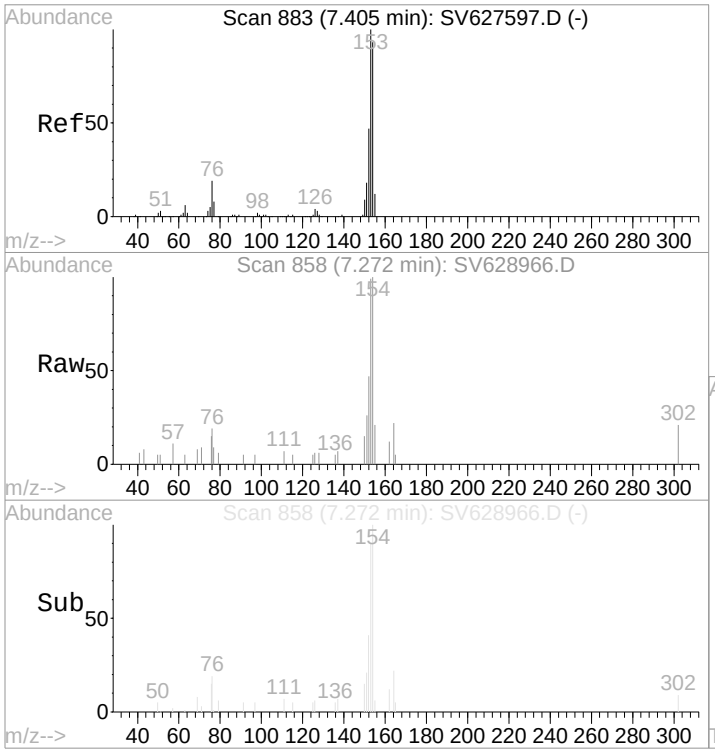


#50
Acenaphthylene
Concen: 1.43 ug/mL
RT: 7.09 min Scan# 823
Delta R.T. -0.12 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:152 Resp: 183020

Ion	Ratio	Lower	Upper
152	100		
151	21.3	15.7	23.5
150	11.0	11.2	16.8#
153	12.2	10.9	16.3

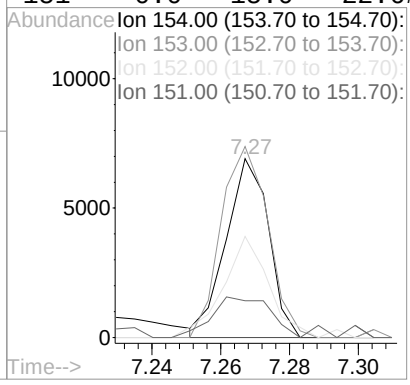


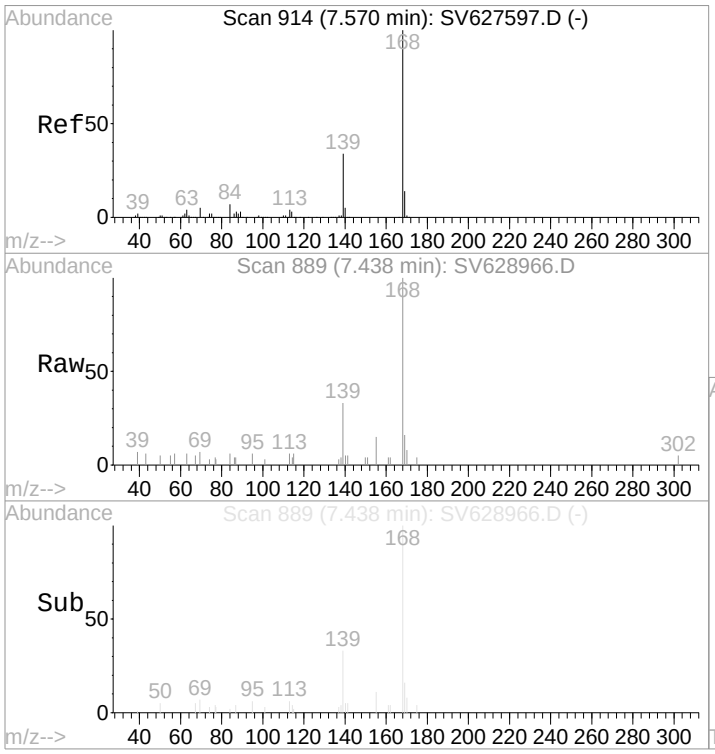


#52
Acenaphthene
Concen: 0.85 ug/mL
RT: 7.27 min Scan# 858
Delta R.T. -0.13 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:154 Resp: 60817

Ion	Ratio	Lower	Upper
154	100		
153	115.1	86.2	129.4
152	60.4	40.4	60.6
151	0.0	15.0	22.6#

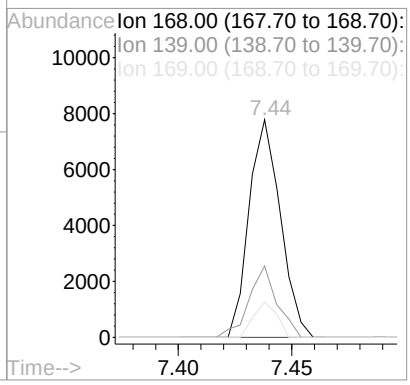


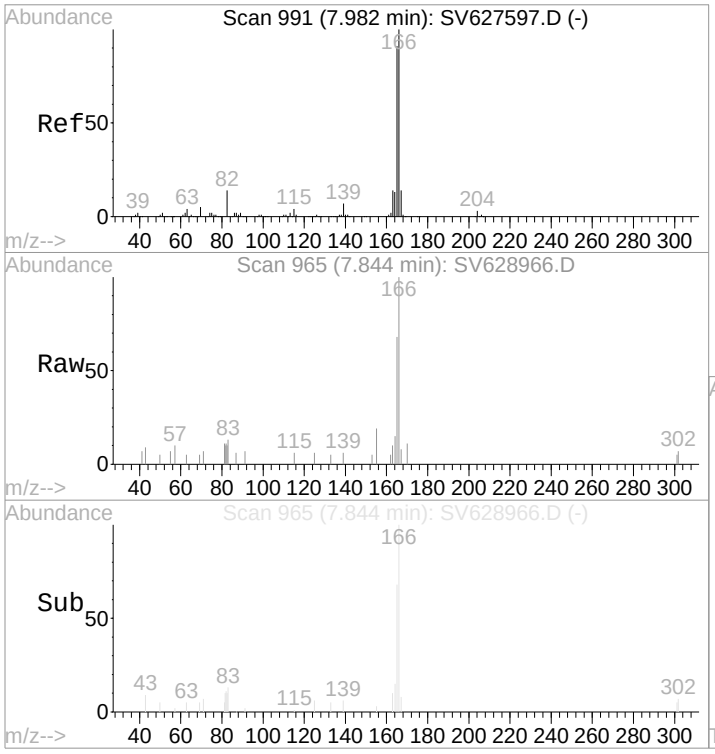


#54
Dibenzofuran
Concen: 0.67 ug/mL
RT: 7.44 min Scan# 889
Delta R.T. -0.13 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:168 Resp: 74519

Ion	Ratio	Lower	Upper
168	100		
139	29.4	26.6	40.0
169	0.0	11.0	16.4#

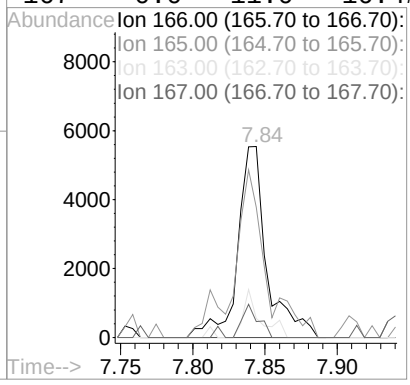


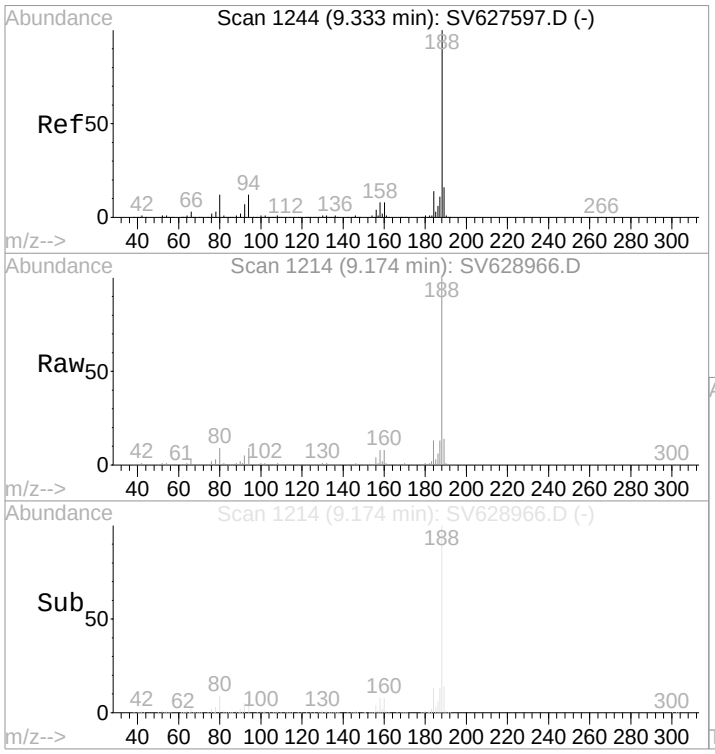


#59
Fluorene
Concen: 0.87 ug/mL
RT: 7.84 min Scan# 965
Delta R.T. -0.14 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:166 Resp: 77487

Ion	Ratio	Lower	Upper
166	100		
165	63.8	72.6	109.0#
163	0.0	11.5	17.3#
167	0.0	11.0	16.4#

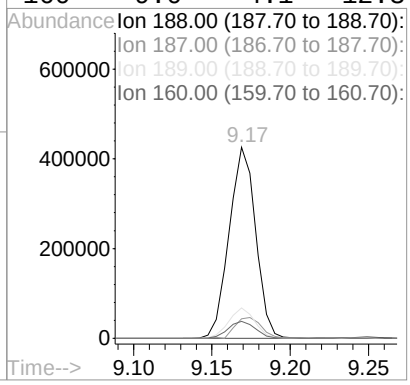


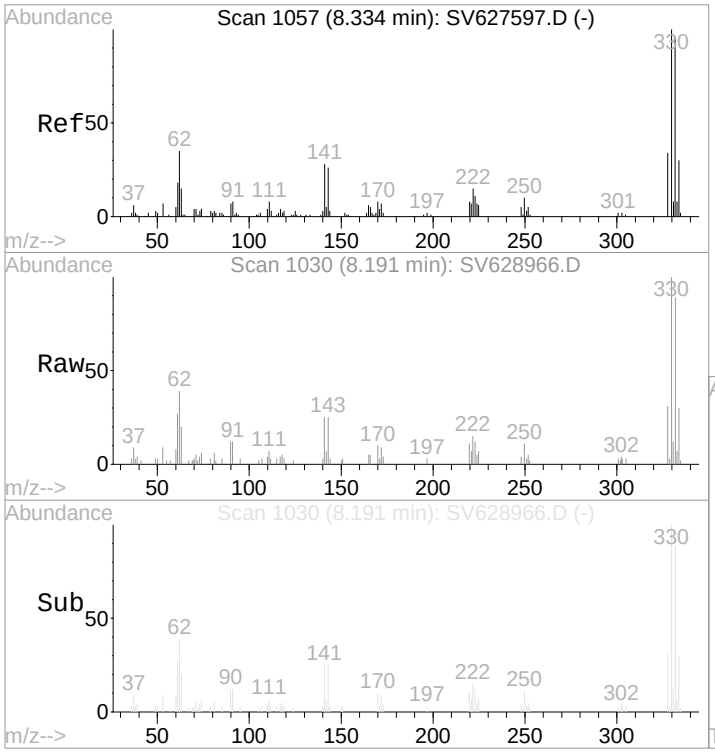


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.17 min Scan# 1214
Delta R.T. -0.16 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:188 Resp: 5022108

Ion	Ratio	Lower	Upper
188	100		
187	10.7	8.4	12.6
189	15.6	8.0	23.8
160	9.0	4.1	12.3

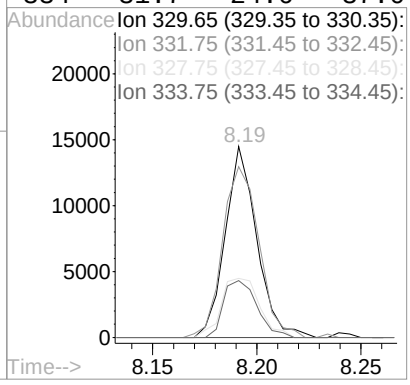


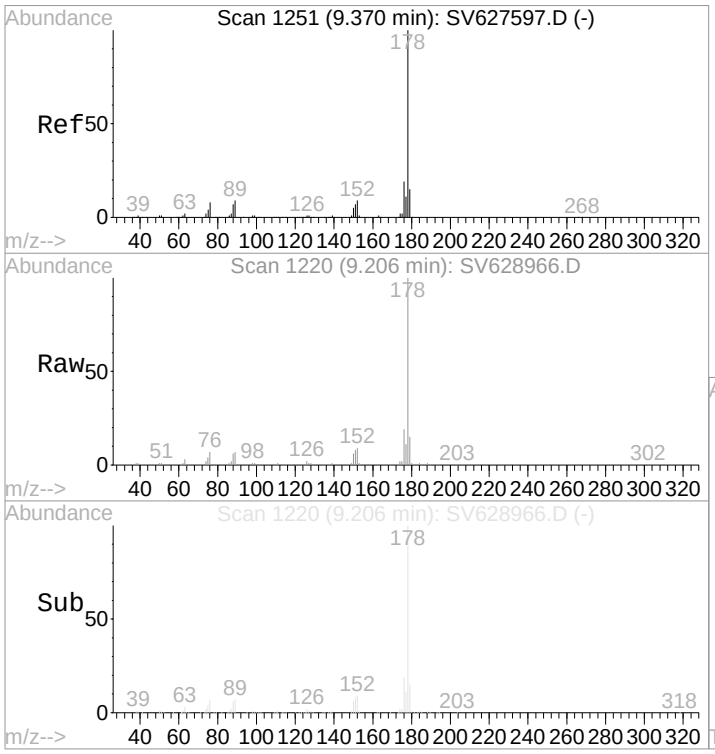


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.19 min Scan# 1030
Delta R.T. -0.14 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:330 Resp: 153058

Ion	Ratio	Lower	Upper
330	100		
332	102.9	74.2	111.2
328	37.8	28.5	42.7
334	31.7	24.6	37.0

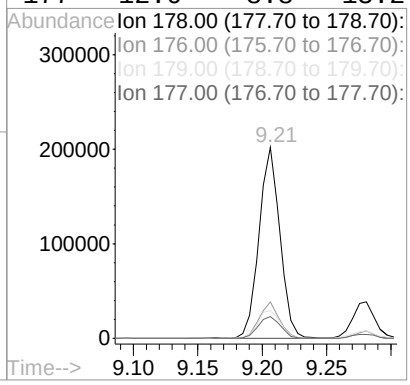


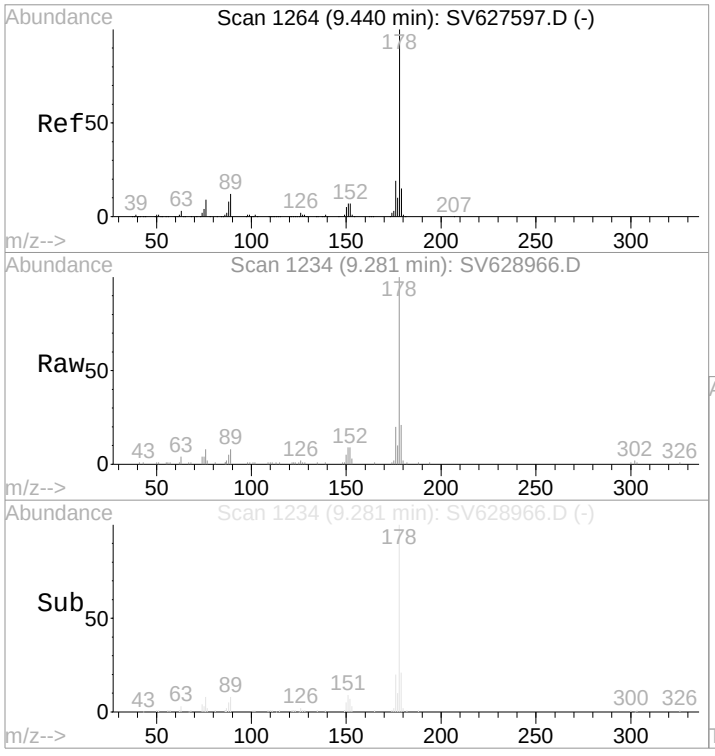


#73
Phenanthrene
Concen: 17.00 ug/mL
RT: 9.21 min Scan# 1220
Delta R.T. -0.16 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:178 Resp: 2281240

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.2	22.8
179	15.7	12.5	18.7
177	12.0	8.8	13.2

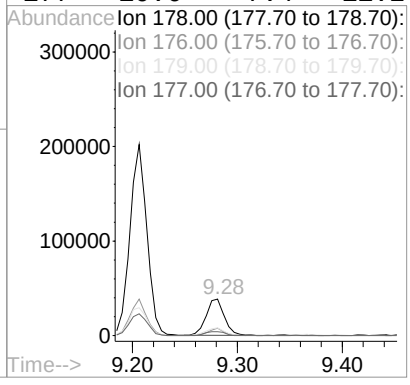


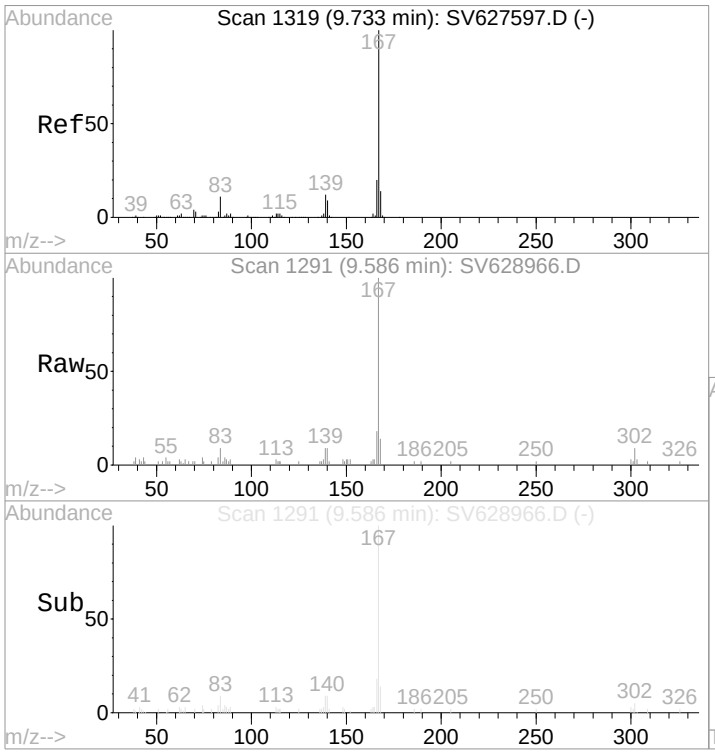


#74
Anthracene
Concen: 3.34 ug/mL
RT: 9.28 min Scan# 1234
Delta R.T. -0.16 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:178 Resp: 474105

Ion	Ratio	Lower	Upper
178	100		
176	17.0	14.5	21.7
179	20.5	12.5	18.7#
177	10.6	7.4	11.2

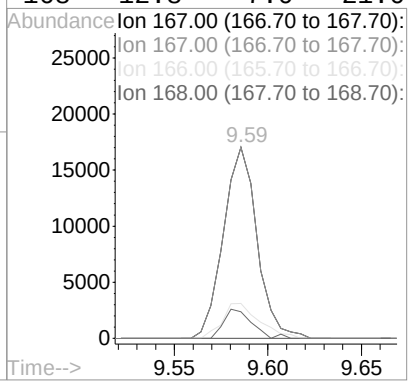


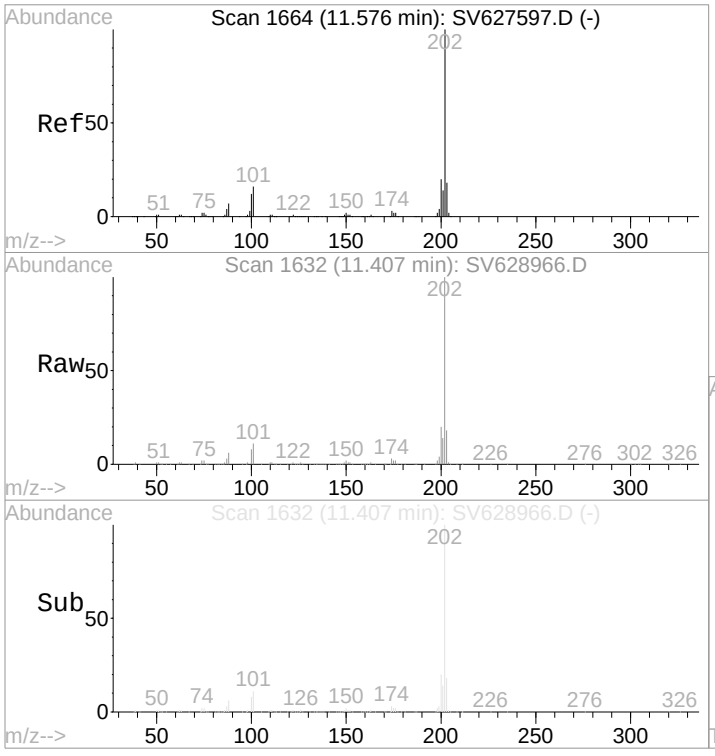


#75
Carbazole
Concen: 1.45 ug/mL
RT: 9.59 min Scan# 1291
Delta R.T. -0.14 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:167 Resp: 213291

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	19.8	0.0	0.0#
168	12.8	7.0	21.0

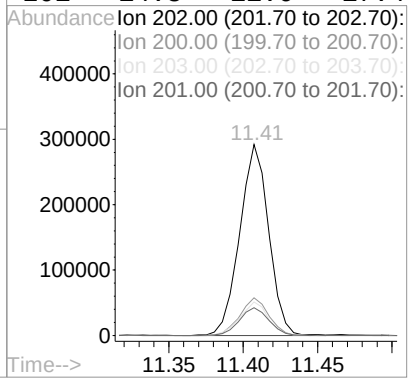


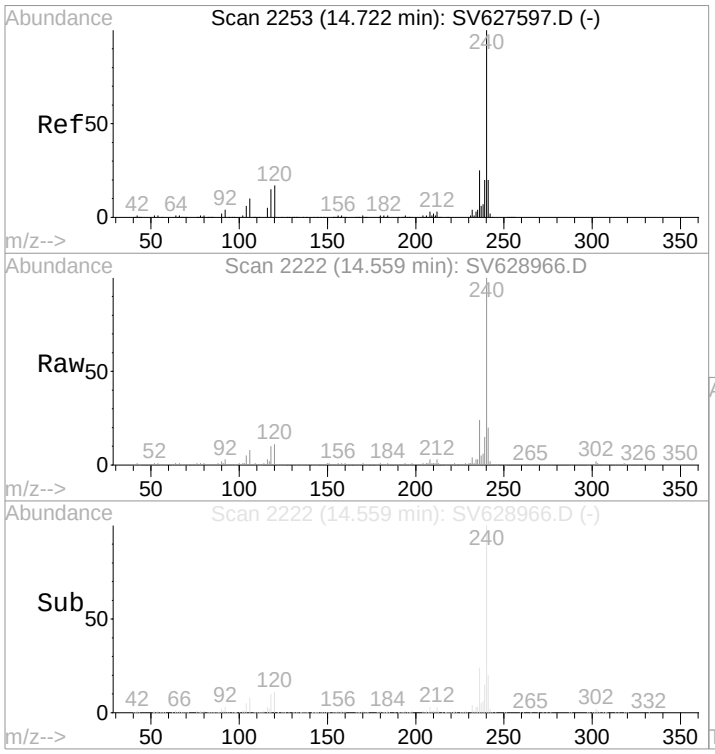


#78
Fluoranthene
Concen: 24.94 ug/mL
RT: 11.41 min Scan# 1632
Delta R.T. -0.17 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:202 Resp: 3955718

Ion	Ratio	Lower	Upper
202	100		
200	19.7	15.8	23.6
203	17.1	14.1	21.1
201	14.8	11.6	17.4

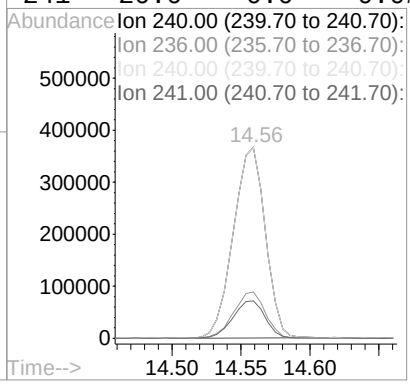


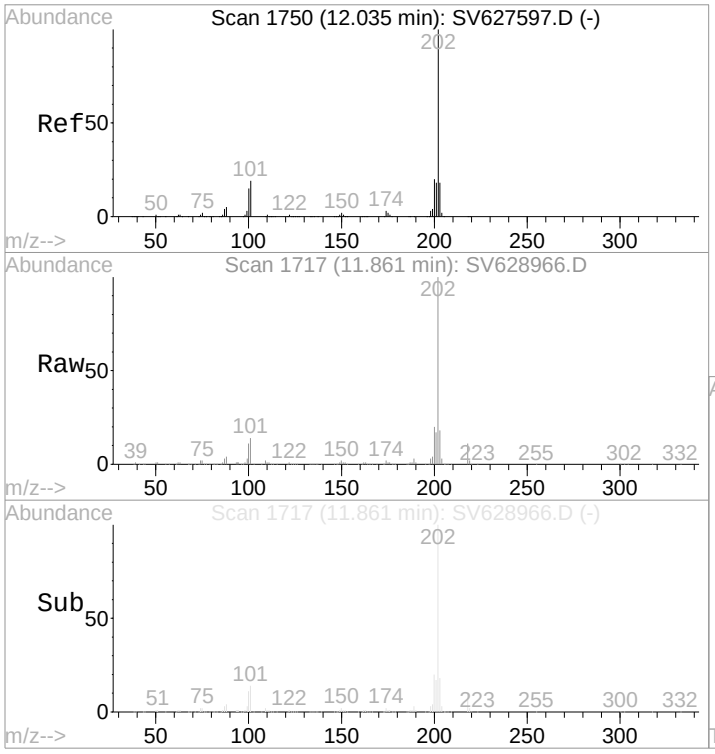


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.56 min Scan# 2222
Delta R.T. -0.16 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:240 Resp: 5926431

Ion	Ratio	Lower	Upper
240	100		
236	0.0	12.2	36.4#
240	100.0	50.0	150.0
241	20.0	0.0	0.0#

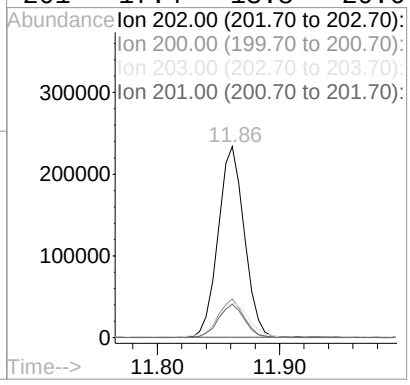


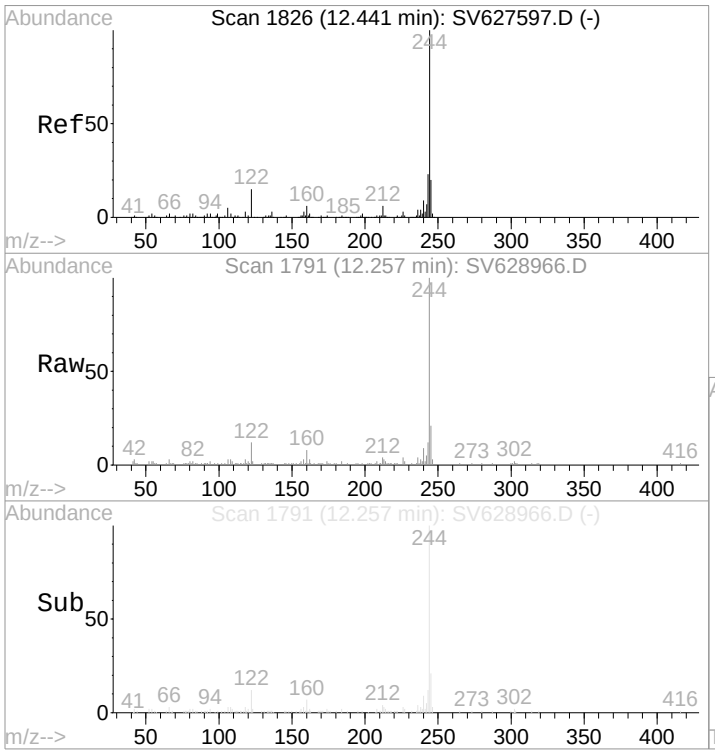


#81
Pyrene
Concen: 15.77 ug/mL
RT: 11.86 min Scan# 1717
Delta R.T. -0.17 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:202 Resp: 3455330

Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.2	24.2
203	21.8	14.6	22.0
201	17.4	13.8	20.6

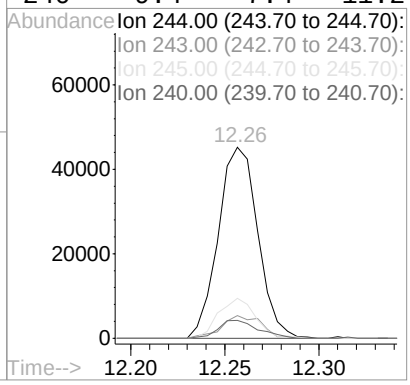


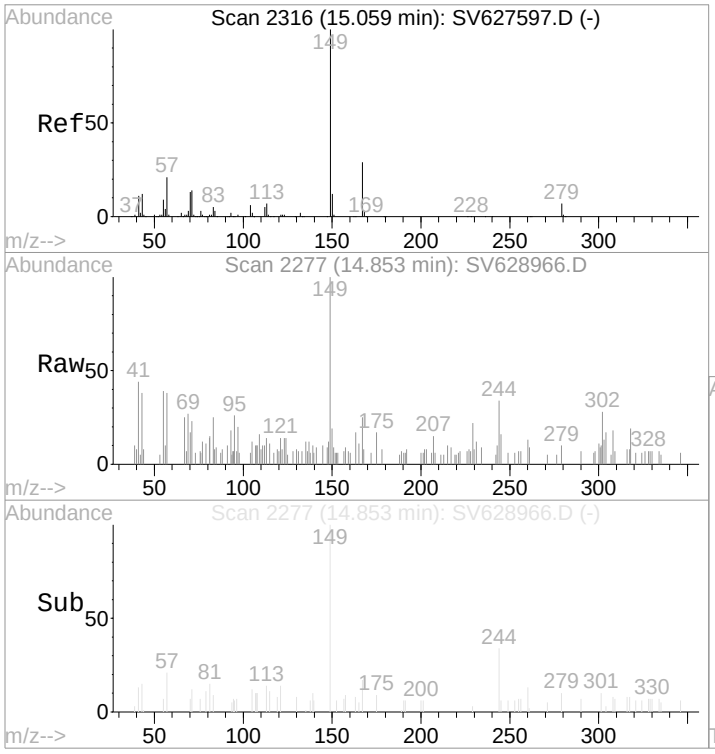


#82
Terphenyl-d14
Concen: 15.77 ug/mL
RT: 12.26 min Scan# 1791
Delta R.T. -0.18 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:244 Resp: 660425

Ion	Ratio	Lower	Upper
244	100		
243	11.8	18.4	27.6#
245	19.6	15.4	23.0
240	9.4	7.4	11.2

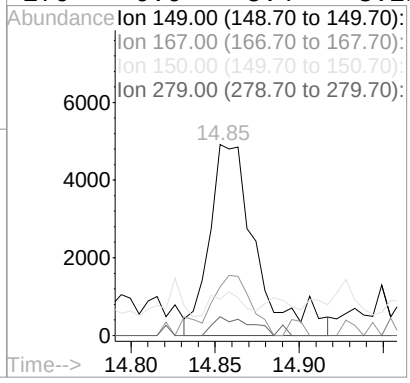


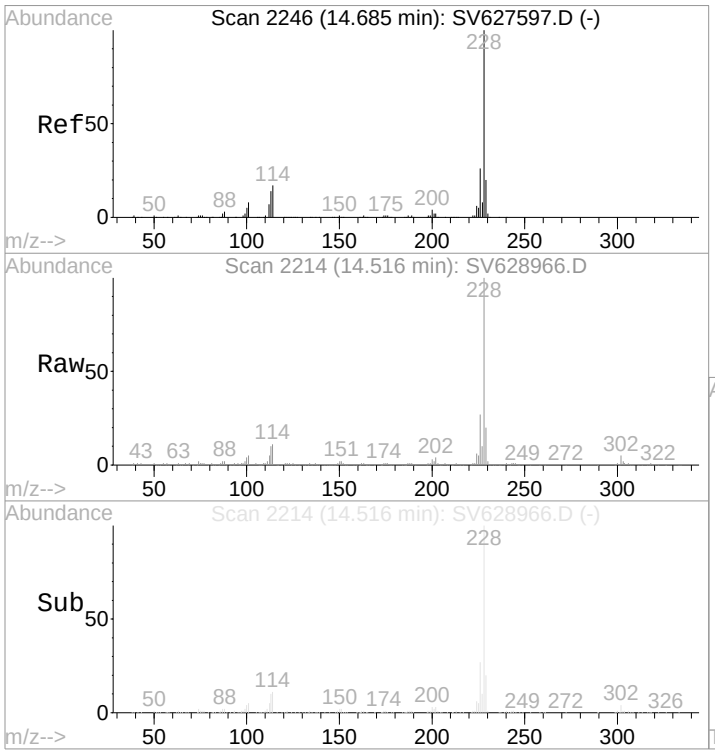


#84
Bis(2-ethylhexyl) phthalate
Concen: 0.66 ug/mL m
RT: 14.85 min Scan# 2277
Delta R.T. -0.21 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:149 Resp: 93892

Ion	Ratio	Lower	Upper
149	100		
167	29.8	23.4	35.0
150	0.0	9.4	14.0#
279	0.0	5.4	8.2#

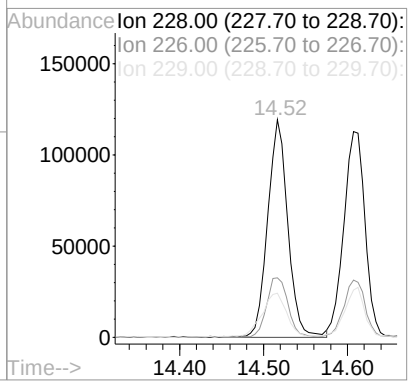


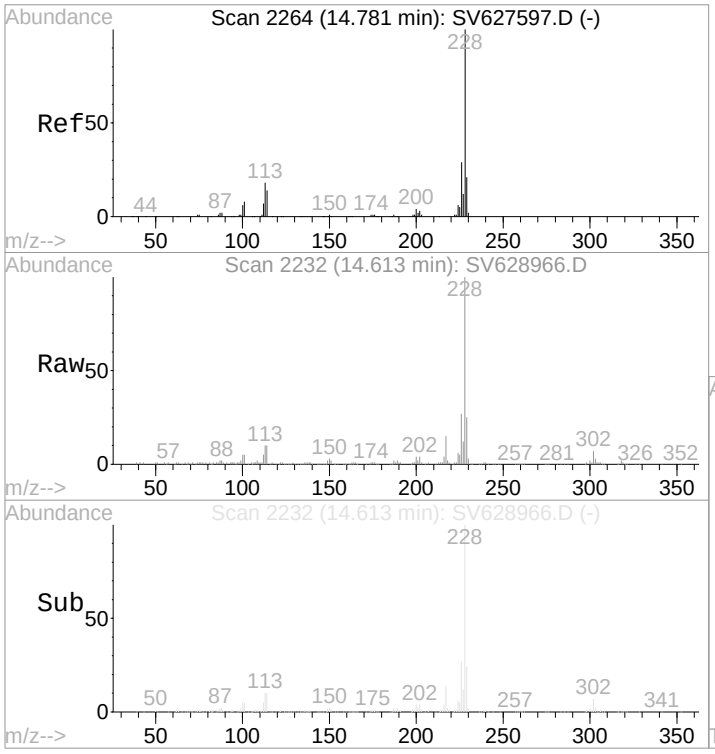


#85
Benz (a) anthracene
Concen: 10.01 ug/mL m
RT: 14.52 min Scan# 2214
Delta R.T. -0.16 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:228 Resp: 1990979

Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.3	31.9
229	21.5	16.4	24.6

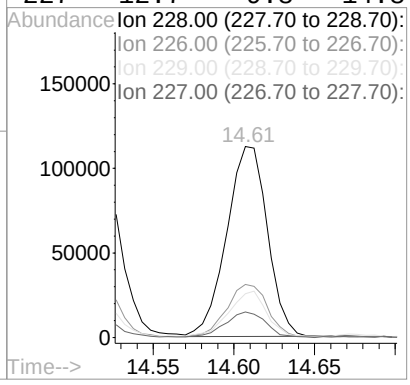


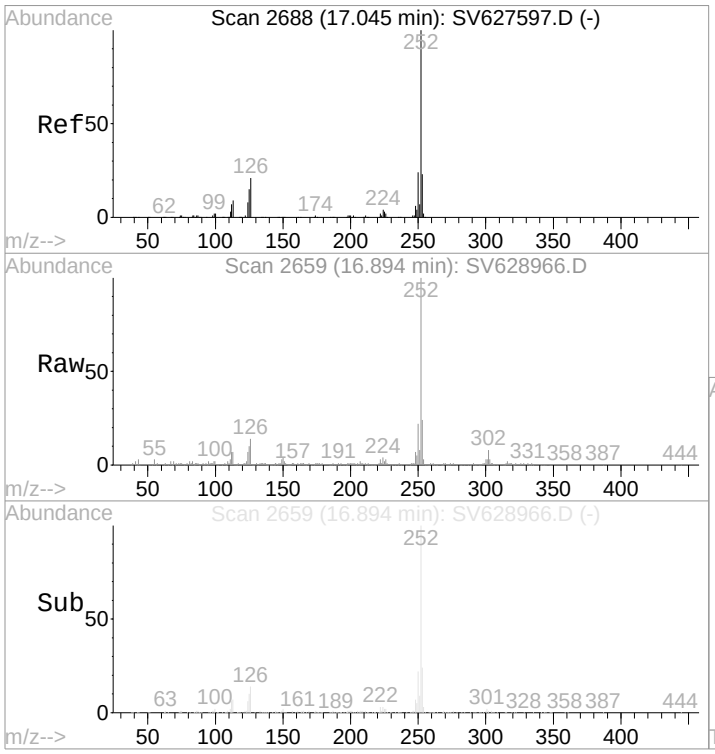


#87
Chrysene
Concen: 10.30 ug/mL
RT: 14.61 min Scan# 2232
Delta R.T. -0.16 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:228 Resp: 1972773

Ion	Ratio	Lower	Upper
228	100		
226	28.0	23.6	35.4
229	21.8	15.5	23.3
227	12.7	9.8	14.8

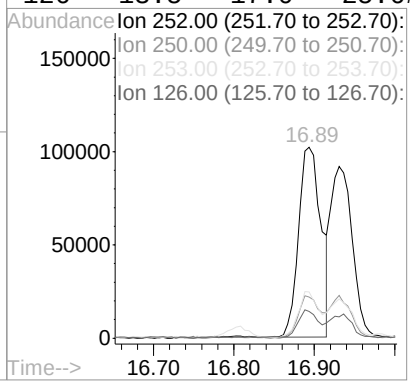


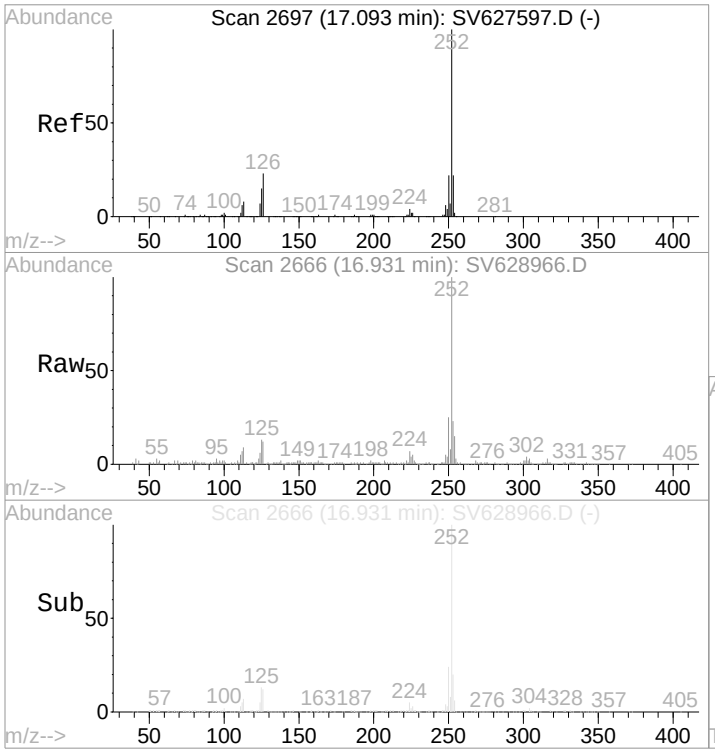


#89
Benzo(b)fluoranthene
Concen: 10.18 ug/mL
RT: 16.90 min Scan# 2659
Delta R.T. -0.14 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:252 Resp: 1836814

Ion	Ratio	Lower	Upper
252	100		
250	21.7	18.2	27.4
253	21.6	17.9	26.9
126	13.5	17.0	25.6#

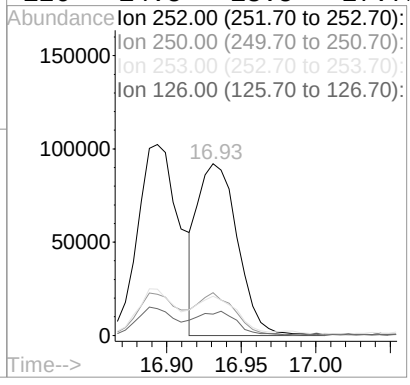


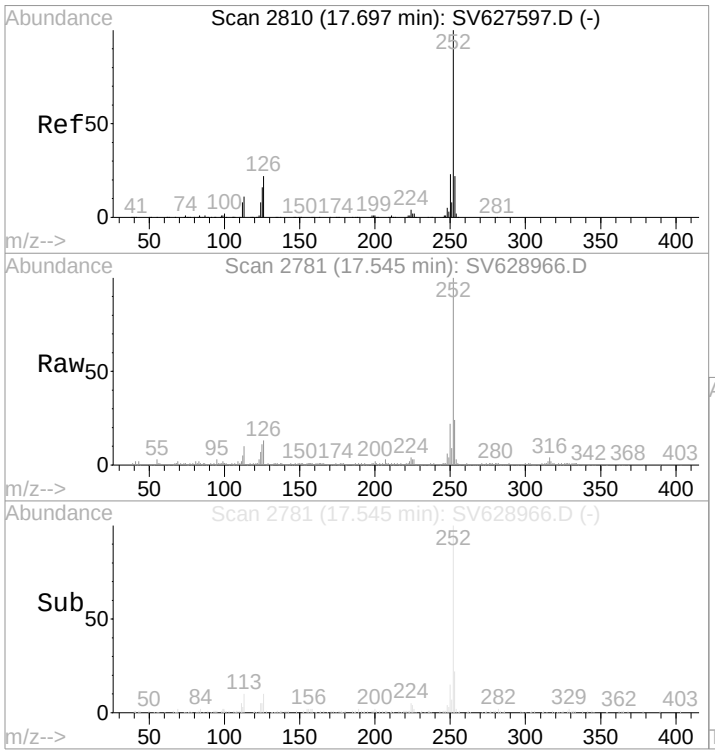


#90
Benzo(k)fluoranthene
Concen: 8.77 ug/mL m
RT: 16.93 min Scan# 2666
Delta R.T. -0.16 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:252 Resp: 1885367

Ion	Ratio	Lower	Upper
252	100		
250	21.3	17.2	25.8
253	21.1	18.1	27.1
126	14.5	18.5	27.7#

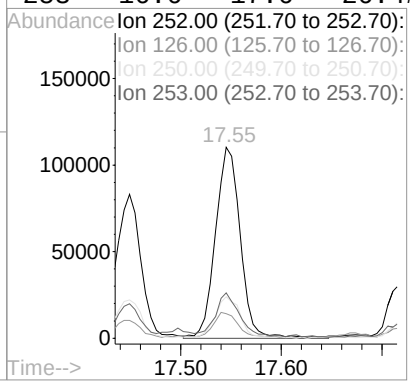


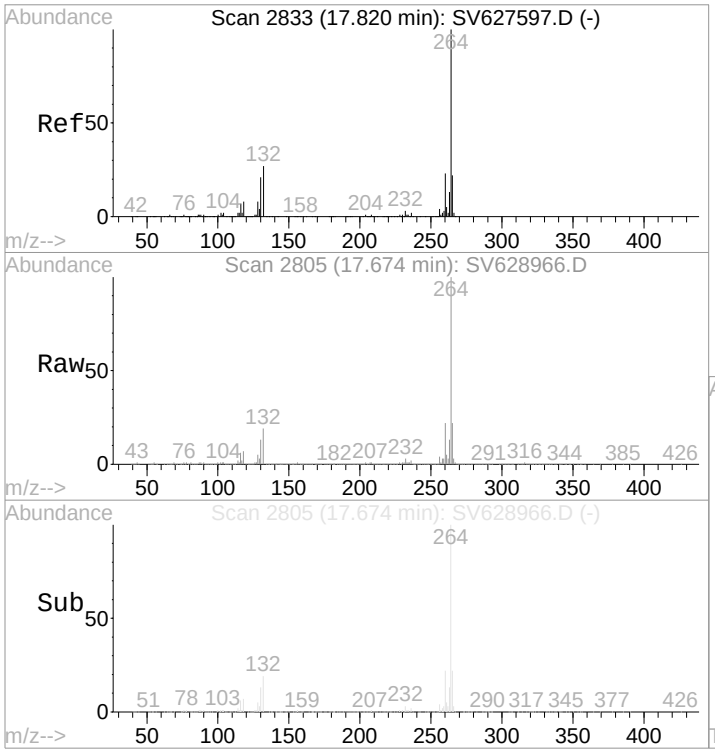


#91
Benzo(a)pyrene
Concen: 10.55 ug/mL m
RT: 17.55 min Scan# 2781
Delta R.T. -0.14 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:252 Resp: 1894088

Ion	Ratio	Lower	Upper
252	100		
126	10.1	18.4	27.6#
250	20.9	17.8	26.8
253	16.6	17.6	26.4#

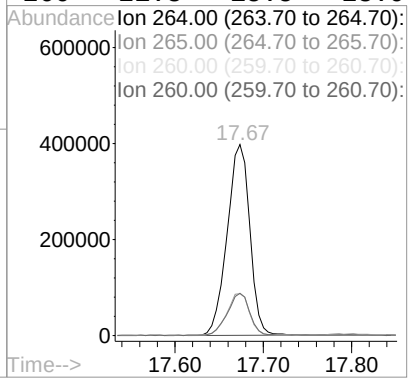


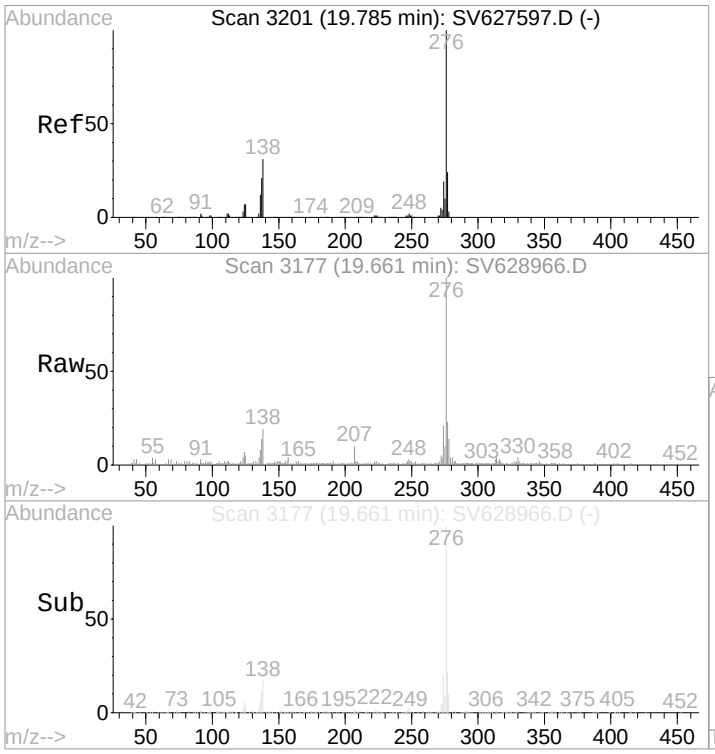


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.68 min Scan# 2805
Delta R.T. -0.14 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:264 Resp: 7094251

Ion	Ratio	Lower	Upper
264	100		
265	21.8	0.0	0.0#
260	21.8	17.8	26.6
260	21.8	15.5	28.9

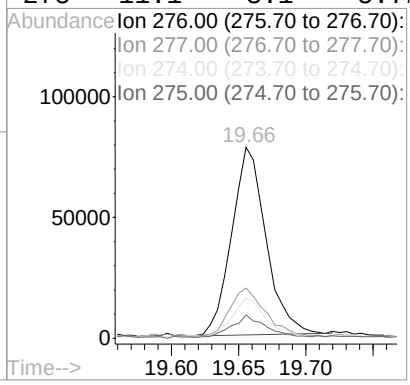


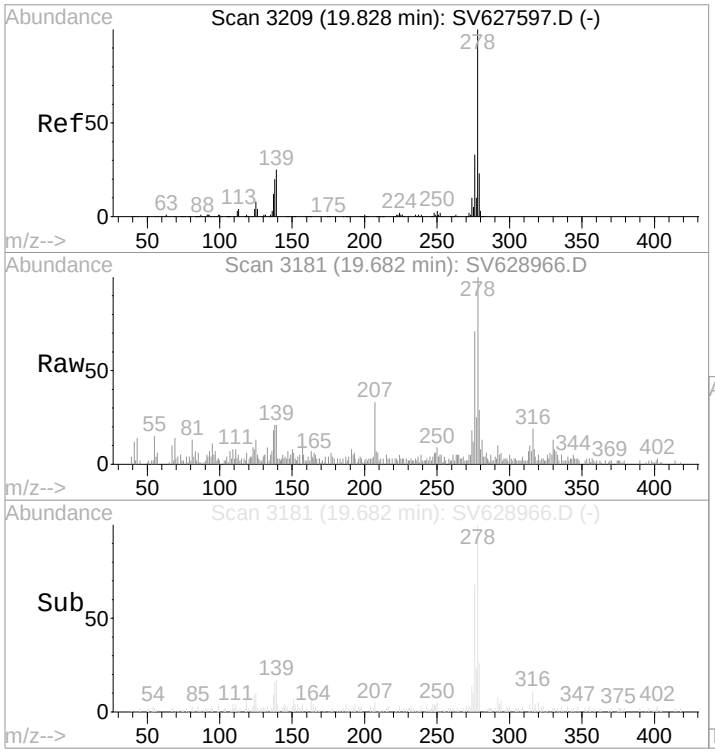


#93
Indeno(1,2,3-cd)pyrene
Concen: 6.33 ug/mL
RT: 19.66 min Scan# 3177
Delta R.T. -0.12 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:276 Resp: 1375447

Ion	Ratio	Lower	Upper
276	100		
277	26.3	12.9	19.3#
274	19.5	10.8	16.2#
275	11.1	3.1	5.7#

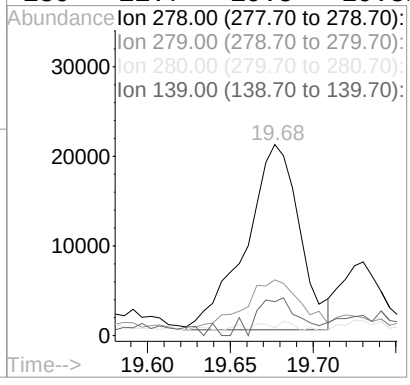


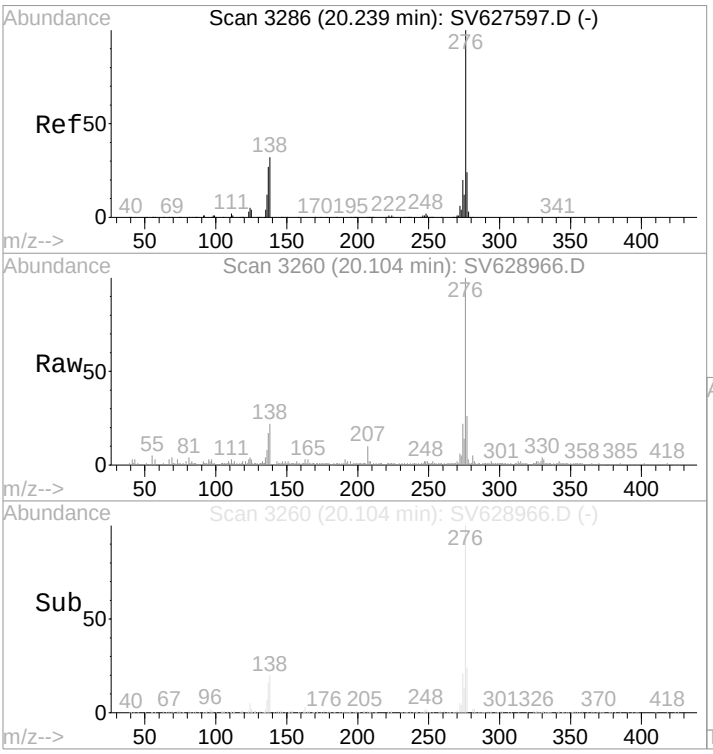


#94
Dibenz(a,h)anthracene
Concen: 2.93 ug/mL
RT: 19.68 min Scan# 3181
Delta R.T. -0.14 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:278 Resp: 455378

Ion	Ratio	Lower	Upper
278	100		
279	29.0	18.5	27.7#
280	0.0	0.0	5.0
139	11.7	19.5	29.3#

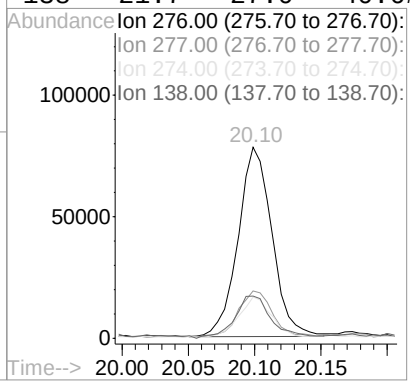




#95
Benzo(g,h,i)perylene
Concen: 6.76 ug/mL
RT: 20.10 min Scan# 3260
Delta R.T. -0.12 min
Lab File: SV628966.D
Acq: 11 Feb 2020 11:09 am

Tgt Ion:276 Resp: 1389112

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
274	19.8	0.0	42.2
138	21.7	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-3 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-05 File ID: SV628954.D

Sampled: 02/04/20 13:25 Prepared: 02/10/20 07:21 Analyzed: 02/10/20 23:35

Solids: 80.23 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
92-52-4	1,1-Biphenyl	2	102	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	203	U
120-82-1	1,2,4-Trichlorobenzene	2	102	U
95-50-1	1,2-Dichlorobenzene	2	102	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	102	U
541-73-1	1,3-Dichlorobenzene	2	102	U
106-46-7	1,4-Dichlorobenzene	2	102	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	203	U
95-95-4	2,4,5-Trichlorophenol	2	102	U
88-06-2	2,4,6-Trichlorophenol	2	102	U
120-83-2	2,4-Dichlorophenol	2	102	U
105-67-9	2,4-Dimethylphenol	2	102	U
51-28-5	2,4-Dinitrophenol	2	203	U
121-14-2	2,4-Dinitrotoluene	2	102	U
606-20-2	2,6-Dinitrotoluene	2	102	U
91-58-7	2-Chloronaphthalene	2	102	U
95-57-8	2-Chlorophenol	2	102	U
91-57-6	2-Methylnaphthalene	2	102	U
95-48-7	2-Methylphenol	2	102	U
88-74-4	2-Nitroaniline	2	203	U
88-75-5	2-Nitrophenol	2	102	U
65794-96-9	3- & 4-Methylphenols	2	102	U
91-94-1	3,3-Dichlorobenzidine	2	102	U
99-09-2	3-Nitroaniline	2	203	U
534-52-1	4,6-Dinitro-2-methylphenol	2	203	U
101-55-3	4-Bromophenyl phenyl ether	2	102	U
59-50-7	4-Chloro-3-methylphenol	2	102	U
106-47-8	4-Chloroaniline	2	102	U
7005-72-3	4-Chlorophenyl phenyl ether	2	102	U
100-01-6	4-Nitroaniline	2	203	U
100-02-7	4-Nitrophenol	2	203	U
83-32-9	Acenaphthene	2	102	U
208-96-8	Acenaphthylene	2	326	D
98-86-2	Acetophenone	2	102	U
62-53-3	Aniline	2	407	U
120-12-7	Anthracene	2	154	D
1912-24-9	Atrazine	2	102	U
100-52-7	Benzaldehyde	2	102	U
92-87-5	Benzidine	2	407	U
56-55-3	Benzo(a)anthracene	2	266	D

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-3 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-05 File ID: SV628954.D

Sampled: 02/04/20 13:25 Prepared: 02/10/20 07:21 Analyzed: 02/10/20 23:35

Solids: 80.23 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
50-32-8	Benzo(a)pyrene	2	874	D
205-99-2	Benzo(b)fluoranthene	2	775	D
191-24-2	Benzo(g,h,i)perylene	2	597	D
207-08-9	Benzo(k)fluoranthene	2	479	D
65-85-0	Benzoic acid	2	102	U
100-51-6	Benzyl alcohol	2	102	U
85-68-7	Benzyl butyl phthalate	2	102	U
111-91-1	Bis(2-chloroethoxy)methane	2	102	U
111-44-4	Bis(2-chloroethyl)ether	2	102	U
108-60-1	Bis(2-chloroisopropyl)ether	2	102	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	102	U
105-60-2	Caprolactam	2	203	U
86-74-8	Carbazole	2	93.4	JD
218-01-9	Chrysene	2	377	D
53-70-3	Dibenzo(a,h)anthracene	2	275	D
132-64-9	Dibenzofuran	2	102	U
84-66-2	Diethyl phthalate	2	102	U
131-11-3	Dimethyl phthalate	2	102	U
84-74-2	Di-n-butyl phthalate	2	102	U
117-84-0	Di-n-octyl phthalate	2	102	U
206-44-0	Fluoranthene	2	400	D
86-73-7	Fluorene	2	102	U
118-74-1	Hexachlorobenzene	2	102	U
87-68-3	Hexachlorobutadiene	2	102	U
77-47-4	Hexachlorocyclopentadiene	2	102	U
67-72-1	Hexachloroethane	2	102	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	613	D
78-59-1	Isophorone	2	102	U
91-20-3	Naphthalene	2	102	U
98-95-3	Nitrobenzene	2	102	U
62-75-9	N-Nitrosodimethylamine	2	102	U
621-64-7	N-nitroso-di-n-propylamine	2	102	U
86-30-6	N-Nitrosodiphenylamine	2	102	U
87-86-5	Pentachlorophenol	2	102	U
85-01-8	Phenanthrene	2	158	D
108-95-2	Phenol	2	102	U
129-00-0	Pyrene	2	303	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2030	1150	56.8	20 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-3 (13-15)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-05	File ID:	SV628954.D
Sampled:	02/04/20 13:25	Prepared:	02/10/20 07:21	Analyzed:	02/10/20 23:35
Solids:	80.23	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: Phenol-d5	2030	1170	57.5	23 - 114	
SURR: Nitrobenzene-d5	1010	713	70.2	22 - 108	
SURR: 2-Fluorobiphenyl	1010	655	64.6	21 - 113	
SURR: 2,4,6-Tribromophenol	2030	2100	103	19 - 110	
SURR: Terphenyl-d14	1010	649	63.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1048077	4.8	943755	4.8	
ISTD: Naphthalene-d8	4194721	5.74	4094325	5.74	
ISTD: Acenaphthene-d10	2669001	7.23	2468626	7.23	
ISTD: Phenanthrene-d10	5722445	9.17	5181551	9.17	
ISTD: Chrysene-d12	6562021	14.56	5930644	14.55	
ISTD: Perylene-d12	7367699	17.68	6994074	17.66	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628954.D Vial: 17
Acq On : 10 Feb 2020 11:35 pm Operator: OW
Sample : 20B0093-05 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:48 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

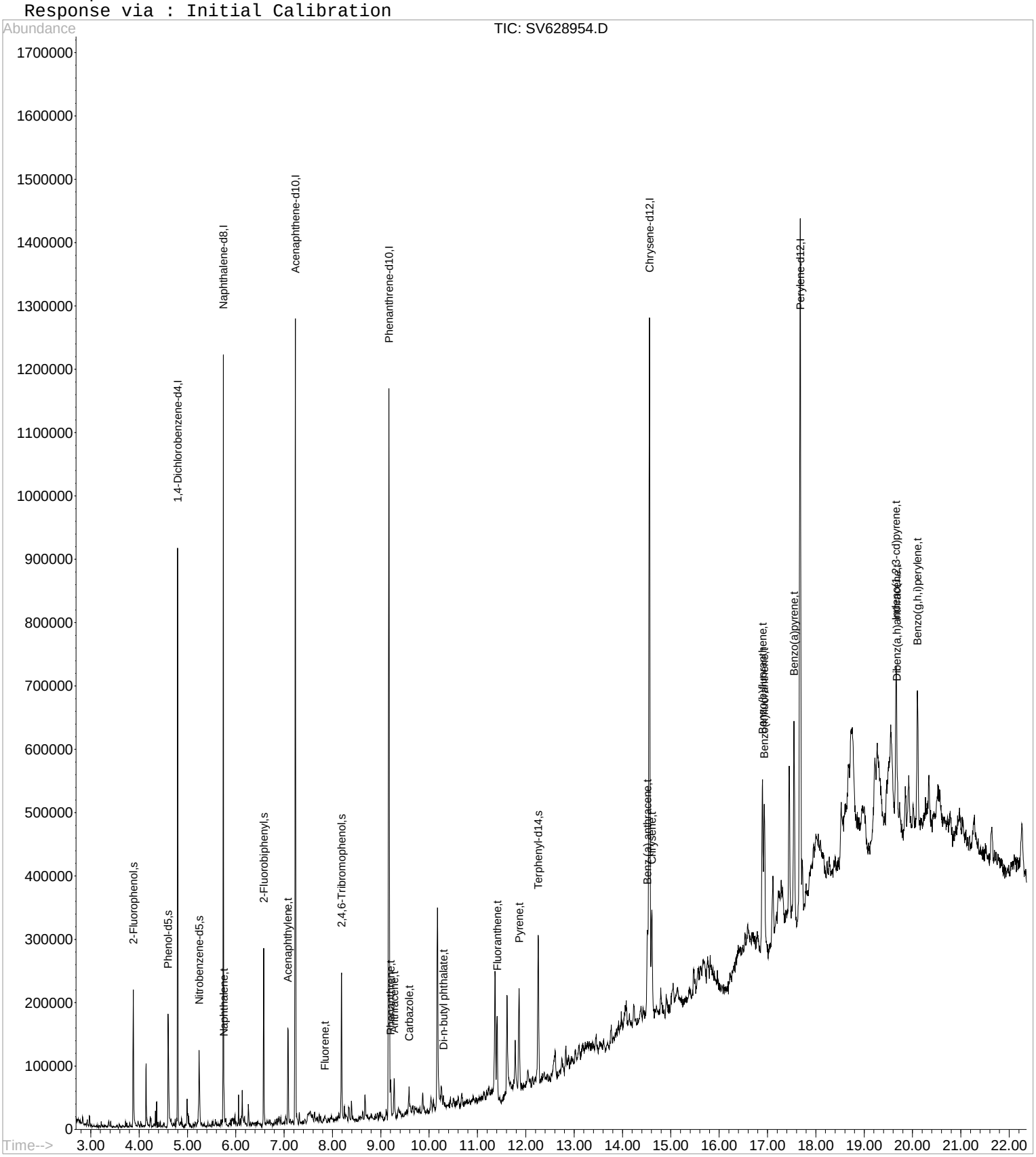
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	1048077	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	4194721	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.23	164	2669001	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	5722445	40.00	ug/mL	-0.16
80) Chrysene-d12	14.56	240	6562021	40.00	ug/mL	-0.16
92) Perylene-d12	17.68	264	7367699	40.00	ug/mL	-0.14
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	543835	14.21	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 18.95%			
5) Phenol-d5	4.60	99	695197	14.38	ug/mL	-0.06
Spiked Amount 75.000	Range 10 - 100		Recovery = 19.17%			
22) Nitrobenzene-d5	5.24	82	324547	8.78	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 17.56%#			
45) 2-Fluorobiphenyl	6.58	172	743729	8.07	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 16.14%#			
67) 2,4,6-Tribromophenol	8.19	330	374243	25.81	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 34.41%#			
82) Terphenyl-d14	12.26	244	1277409	7.99	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery = 15.98%#			
Target Compounds						Qvalue
32) Naphthalene	5.76	128	29710	0.27	ug/mL#	42
50) Acenaphthylene	7.08	152	558065	4.01	ug/mL	97
59) Fluorene	7.84	166	21582	0.22	ug/mL#	70
73) Phenanthrene	9.21	178	296130	1.94	ug/mL#	97
74) Anthracene	9.28	178	307453	1.90	ug/mL	98
75) Carbazole	9.59	167	193342	1.15	ug/mL#	96
76) Di-n-butyl phthalate	10.30	149	47982	0.24	ug/mL#	80
78) Fluoranthene	11.41	202	890302	4.93	ug/mL	99
81) Pyrene	11.86	202	905549	3.73	ug/mL#	96
85) Benz (a) anthracene	14.52	228	721321m	3.28	ug/mL	
87) Chrysene	14.61	228	984865	4.64	ug/mL#	95
89) Benzo(b)fluoranthene	16.90	252	1905287	9.54	ug/mL#	94
90) Benzo(k)fluoranthene	16.93	252	1403051m	5.90	ug/mL	
91) Benzo(a)pyrene	17.55	252	2140620m	10.77	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.66	276	1705538	7.55	ug/mL#	77
94) Dibenz(a,h)anthracene	19.68	278	547968	3.39	ug/mL#	87
95) Benzo(g,h,i)perylene	20.11	276	1568009	7.35	ug/mL#	90

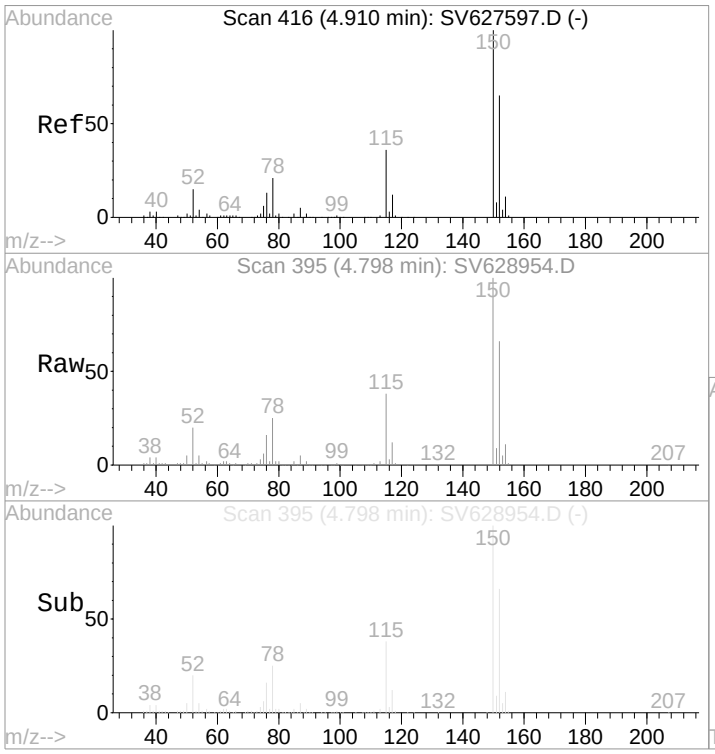
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628954.D Vial: 17
Acq On : 10 Feb 2020 11:35 pm Operator: OW
Sample : 20B0093-05 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:48 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

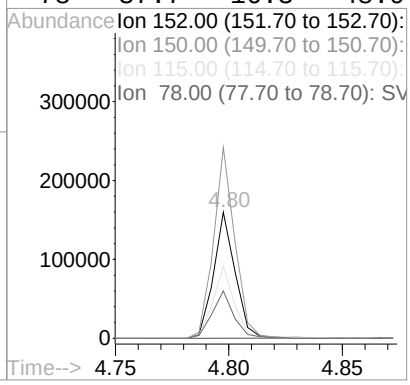


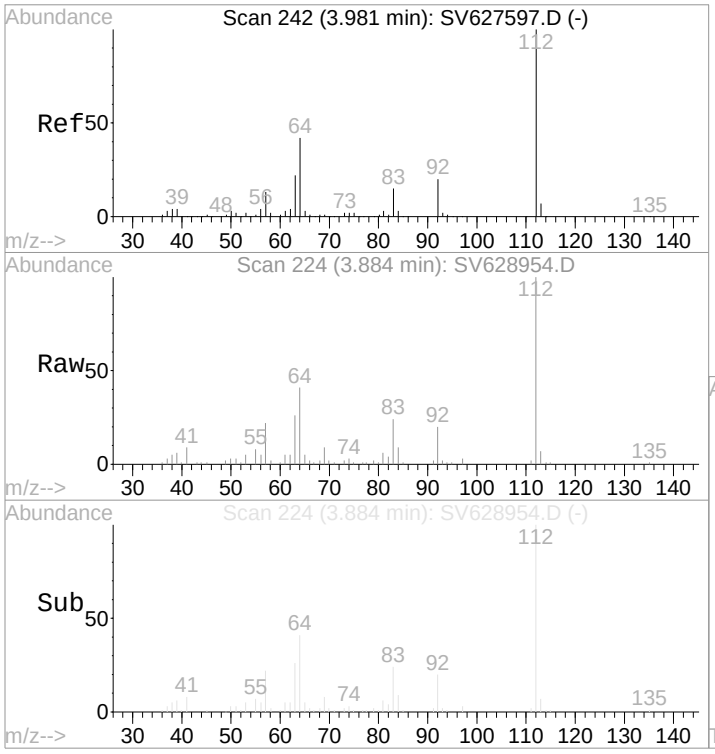


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 395
Delta R.T. -0.11 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:152 Resp: 1048077

Ion	Ratio	Lower	Upper
152	100		
150	149.2	84.8	254.4
115	56.5	27.5	82.4
78	37.7	16.3	48.9

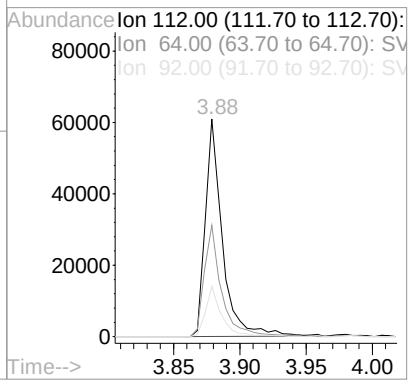


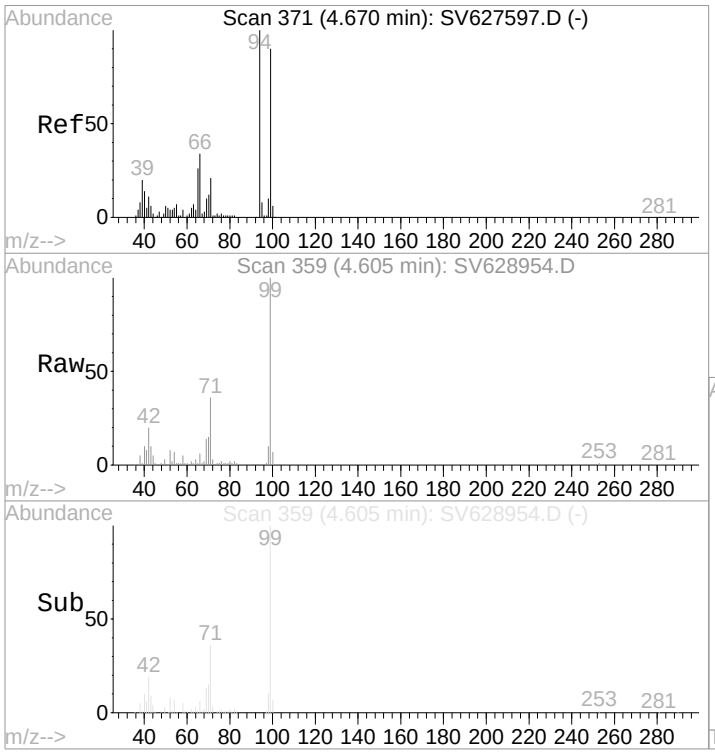


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.88 min Scan# 224
Delta R.T. -0.10 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:112 Resp: 543835

Ion	Ratio	Lower	Upper
112	100		
64	52.0	36.6	54.8
92	22.1	16.2	24.4

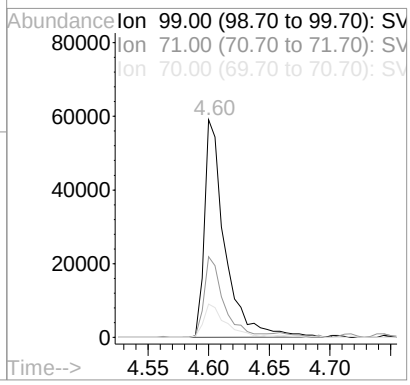


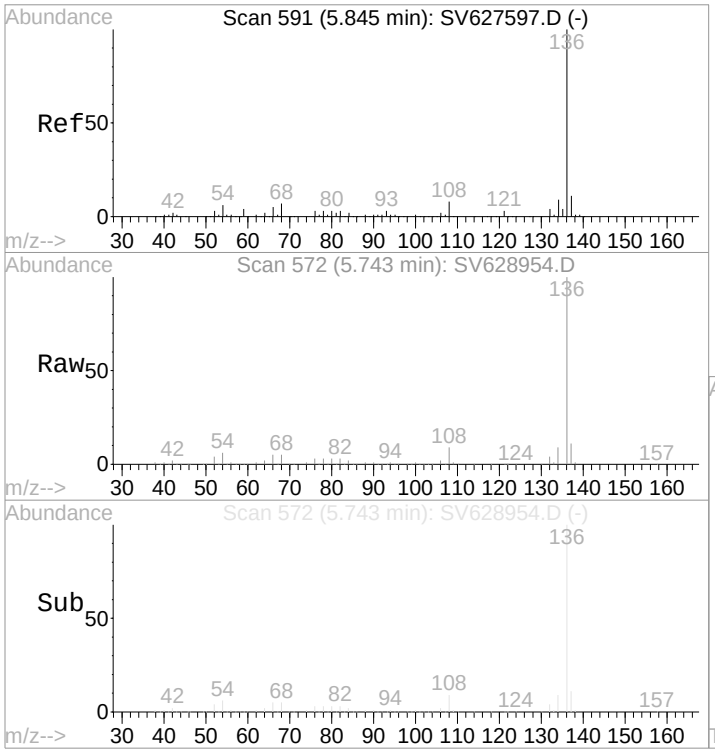


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.60 min Scan# 359
Delta R.T. -0.06 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion: 99 Resp: 695197

Ion	Ratio	Lower	Upper
99	100		
71	35.0	20.5	30.7#
70	16.6	10.3	15.5#

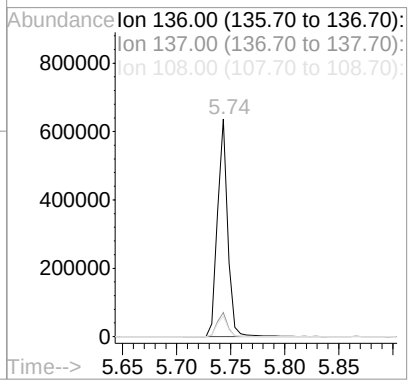


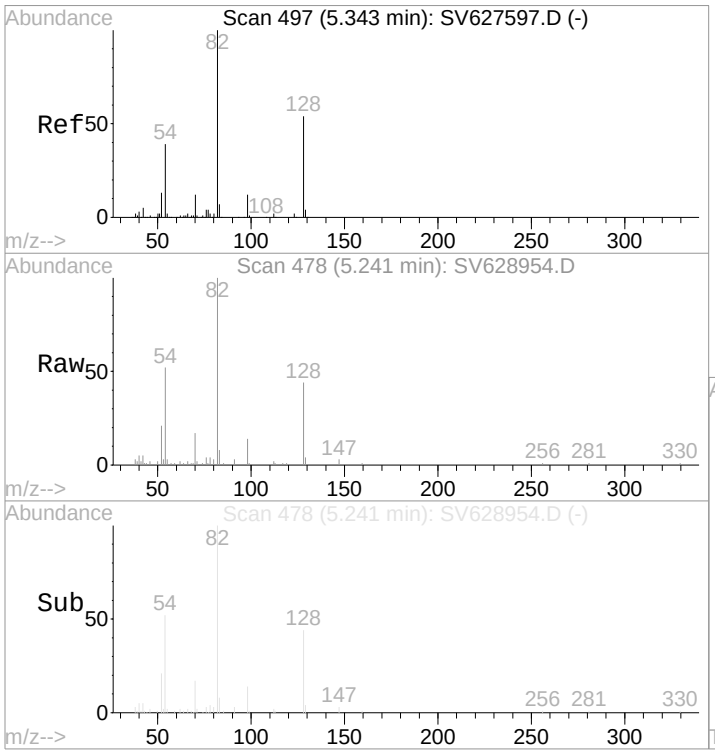


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.74 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:136 Resp: 4194721

Ion	Ratio	Lower	Upper
136	100		
137	11.4	5.7	17.0
108	9.8	4.2	12.4

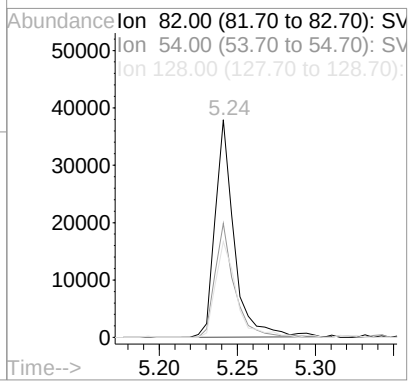


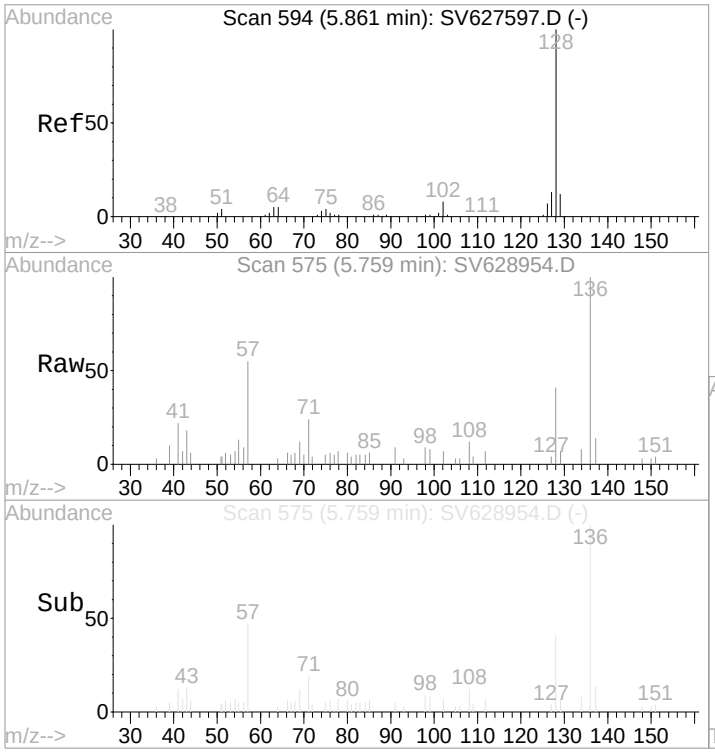


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.24 min Scan# 478
Delta R.T. -0.10 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion: 82 Resp: 324547

Ion	Ratio	Lower	Upper
82	100		
54	53.9	32.4	48.6#
128	48.8	41.3	61.9

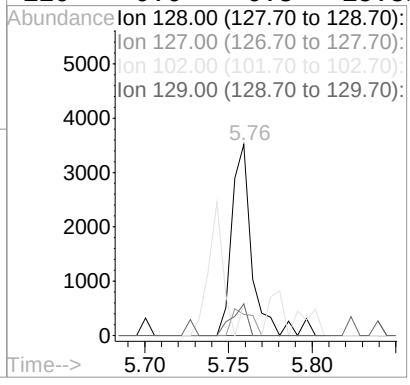


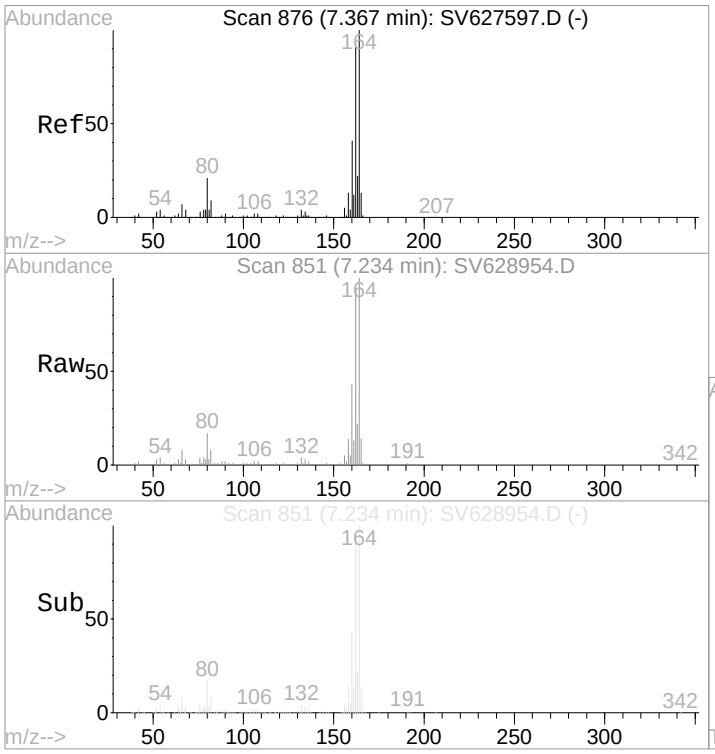


#32
Naphthalene
Concen: 0.27 ug/mL
RT: 5.76 min Scan# 575
Delta R.T. -0.10 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:128 Resp: 29710

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
102	56.4	4.1	12.3#
129	0.0	6.8	15.8#

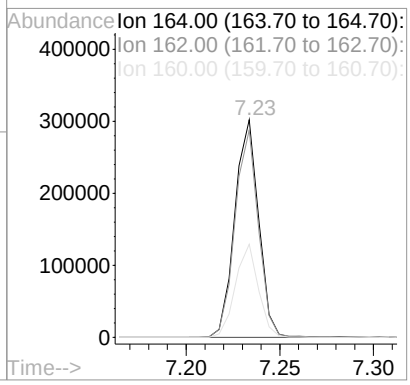


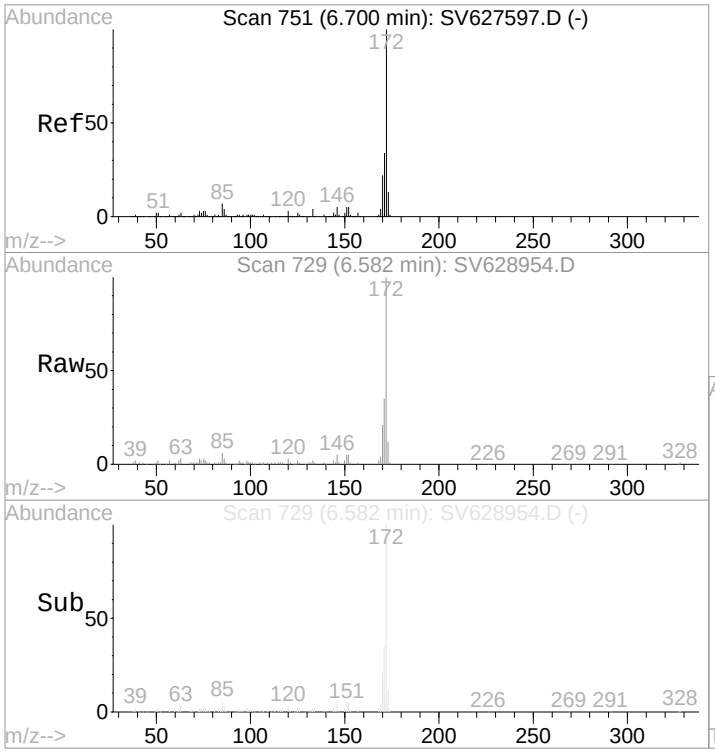


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.23 min Scan# 851
Delta R.T. -0.13 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:164 Resp: 2669001

Ion	Ratio	Lower	Upper
164	100		
162	94.0	46.5	139.3
160	41.4	20.9	62.7

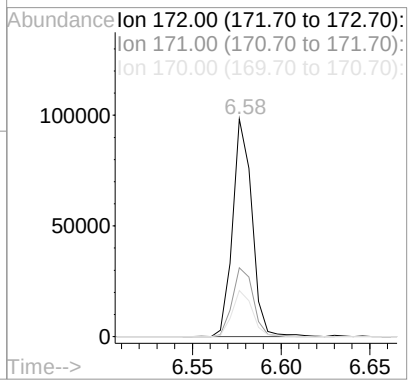


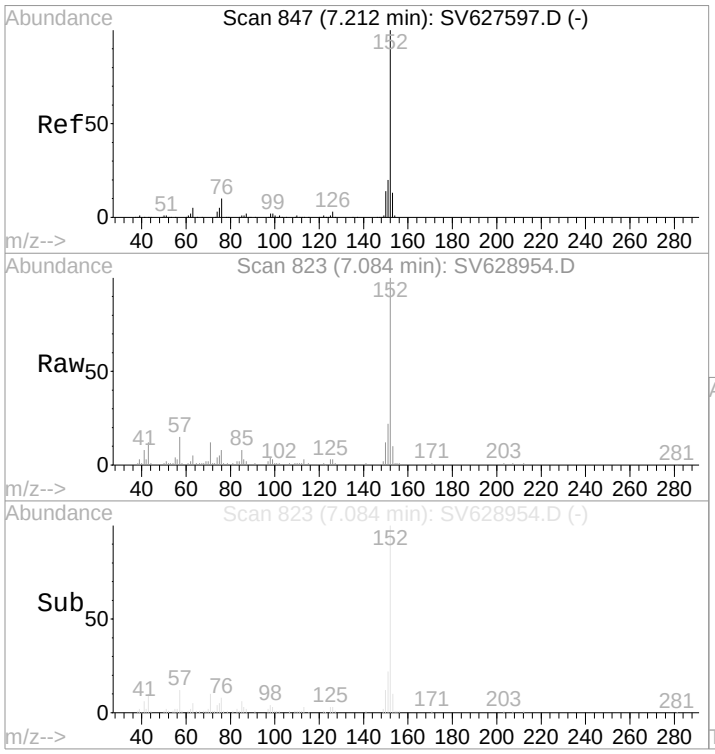


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 729
Delta R.T. -0.12 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:172 Resp: 743729

Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.2	40.8
170	22.3	18.1	27.1

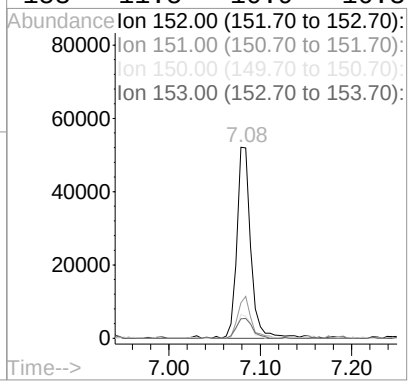


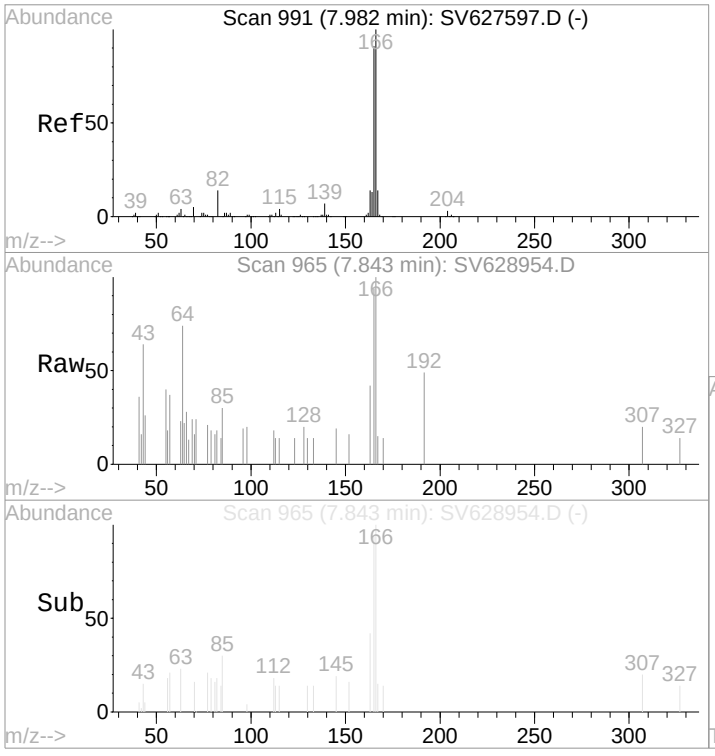


#50
Acenaphthylene
Concen: 4.01 ug/mL
RT: 7.08 min Scan# 823
Delta R.T. -0.13 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:152 Resp: 558065

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.7	23.5
150	12.8	11.2	16.8
153	11.5	10.9	16.3

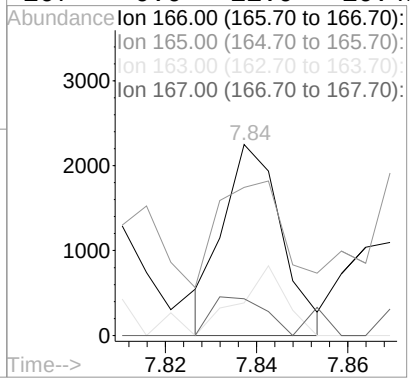


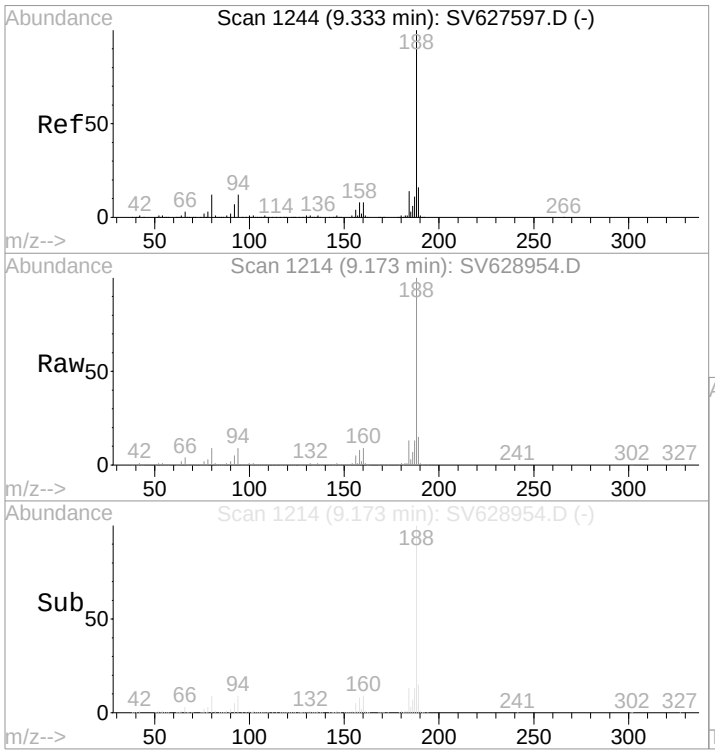


#59
Fluorene
Concen: 0.22 ug/mL
RT: 7.84 min Scan# 965
Delta R.T. -0.14 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:166 Resp: 21582

Ion	Ratio	Lower	Upper
166	100		
165	118.3	72.6	109.0#
163	0.0	11.5	17.3#
167	0.0	11.0	16.4#

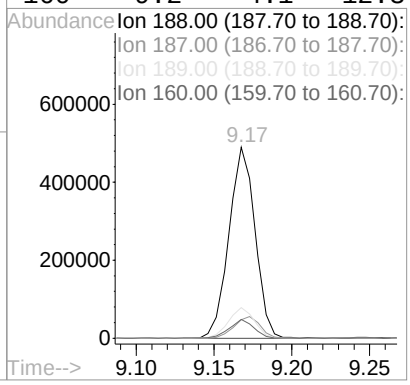


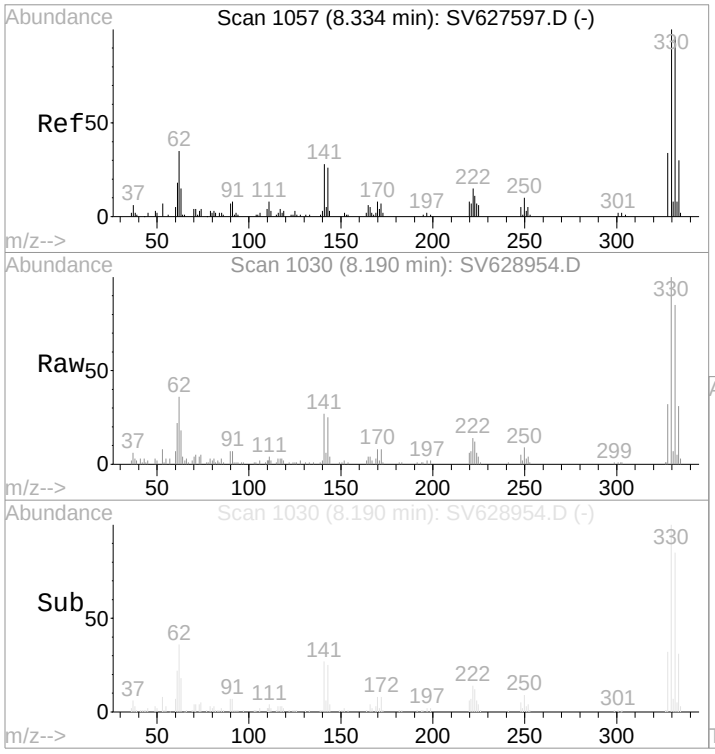


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.17 min Scan# 1214
Delta R.T. -0.16 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:188 Resp: 5722445

Ion	Ratio	Lower	Upper
188	100		
187	11.2	8.4	12.6
189	15.8	8.0	23.8
160	9.2	4.1	12.3

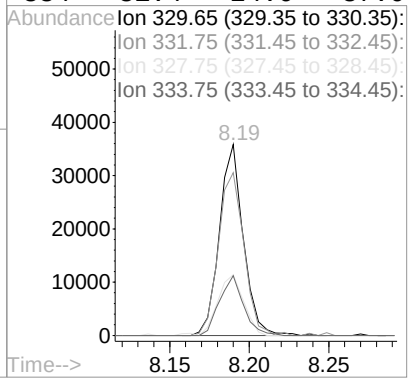


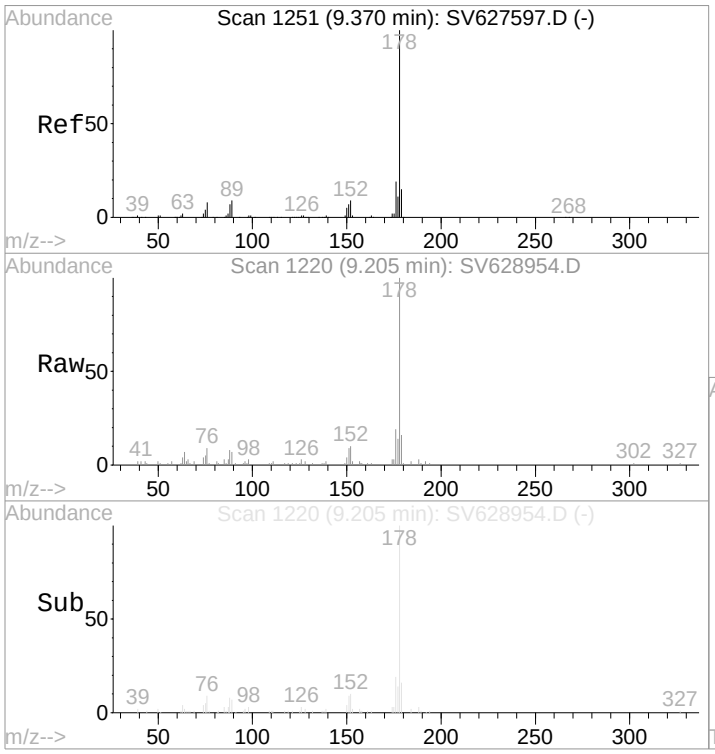


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.19 min Scan# 1030
Delta R.T. -0.14 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:330 Resp: 374243

Ion	Ratio	Lower	Upper
330	100		
332	90.7	74.2	111.2
328	34.5	28.5	42.7
334	31.4	24.6	37.0

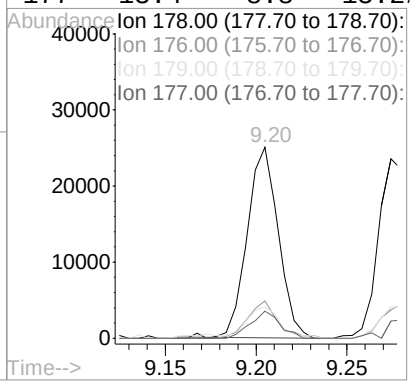


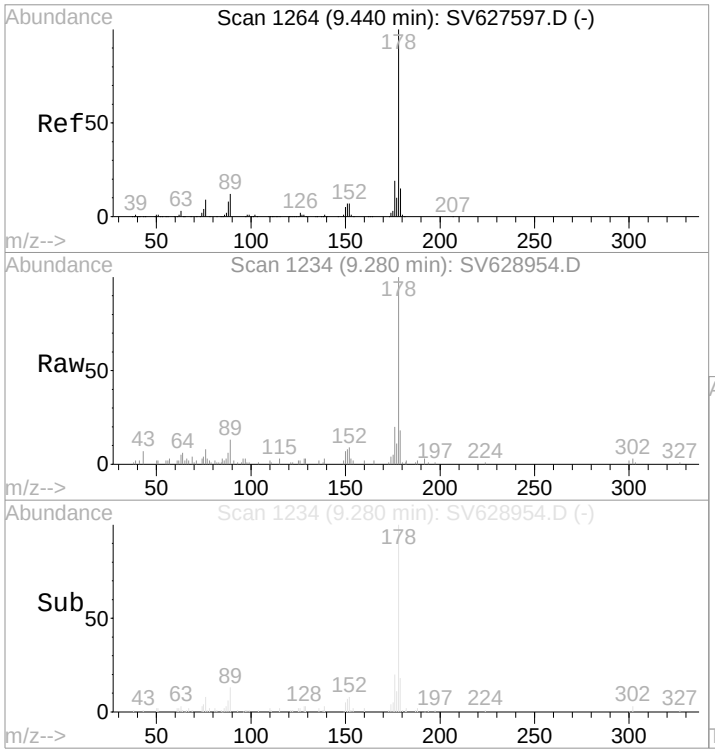


#73
Phenanthrene
Concen: 1.94 ug/mL
RT: 9.21 min Scan# 1220
Delta R.T. -0.16 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:178 Resp: 296130

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	17.8	12.5	18.7
177	13.4	8.8	13.2#

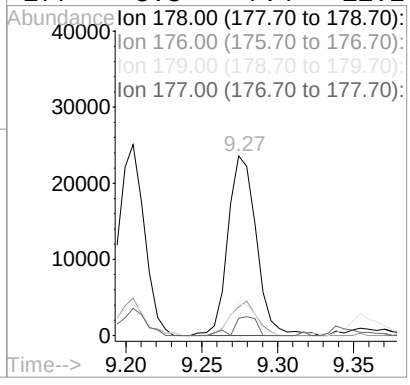


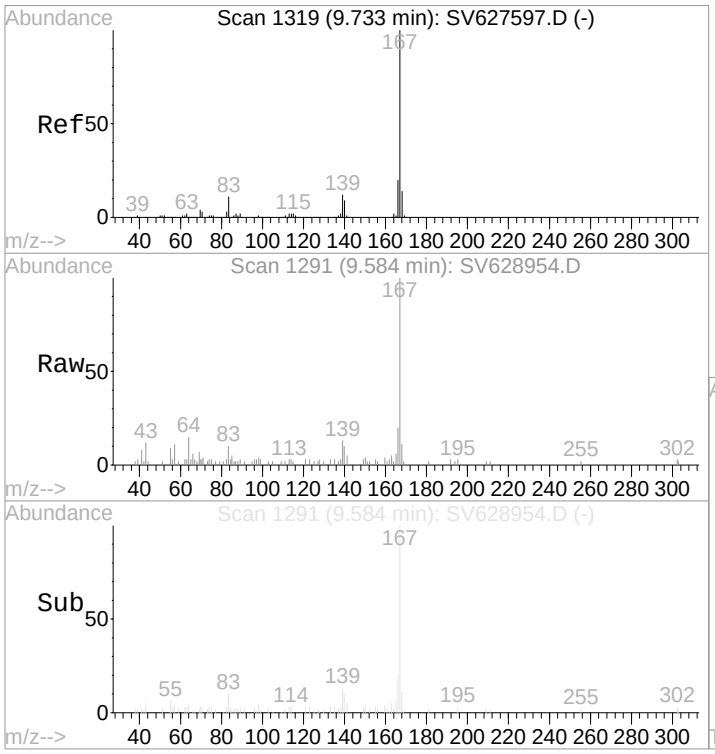


#74
Anthracene
Concen: 1.90 ug/mL
RT: 9.28 min Scan# 1234
Delta R.T. -0.16 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:178 Resp: 307453

Ion	Ratio	Lower	Upper
178	100		
176	17.5	14.5	21.7
179	17.0	12.5	18.7
177	8.3	7.4	11.2

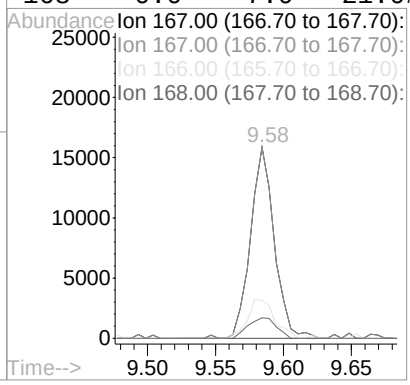


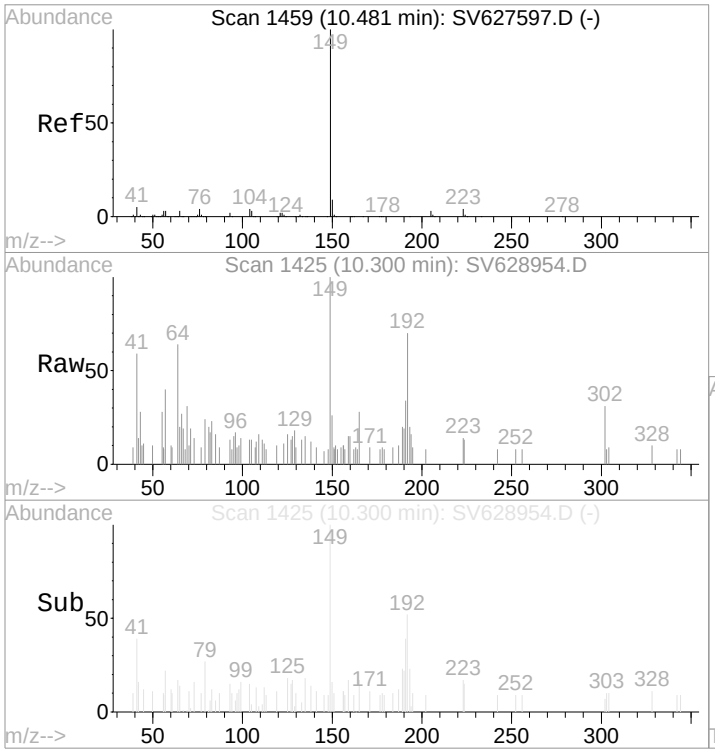


#75
Carbazole
Concen: 1.15 ug/mL
RT: 9.59 min Scan# 1291
Delta R.T. -0.15 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:167 Resp: 193342

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	23.0	0.0	0.0#
168	0.0	7.0	21.0#

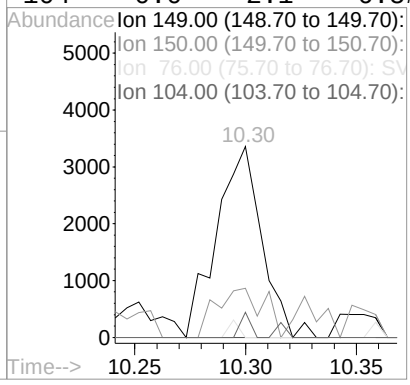


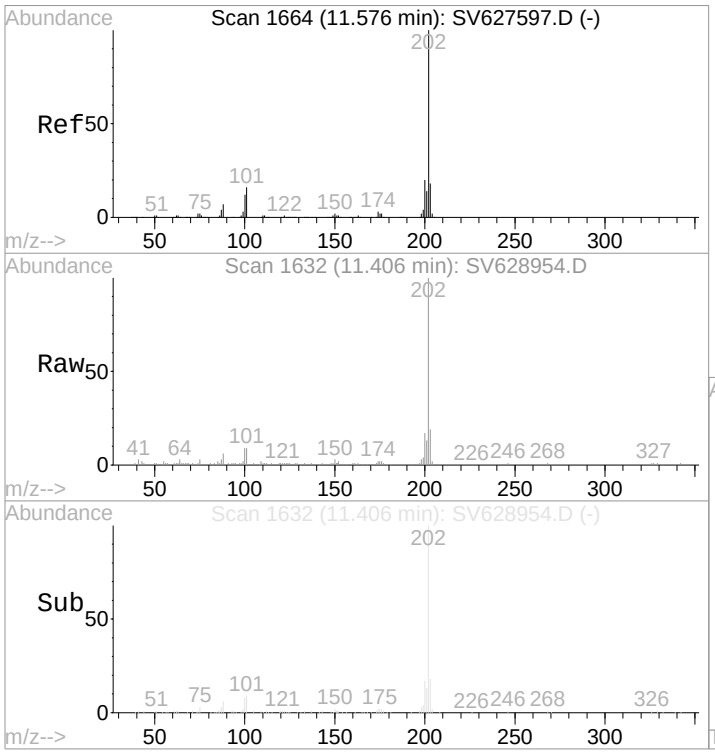


#76
Di-n-butyl phthalate
Concen: 0.24 ug/mL
RT: 10.30 min Scan# 1425
Delta R.T. -0.18 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:149 Resp: 47982

Ion	Ratio	Lower	Upper
149	100		
150	0.0	7.5	11.3#
76	0.0	2.1	6.2#
104	0.0	2.1	6.5#

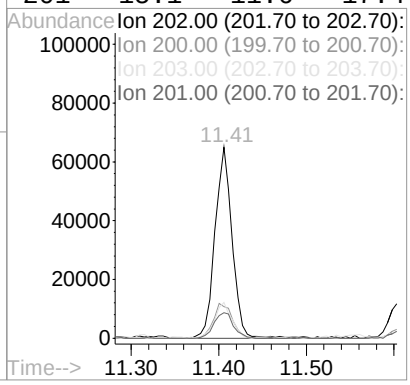


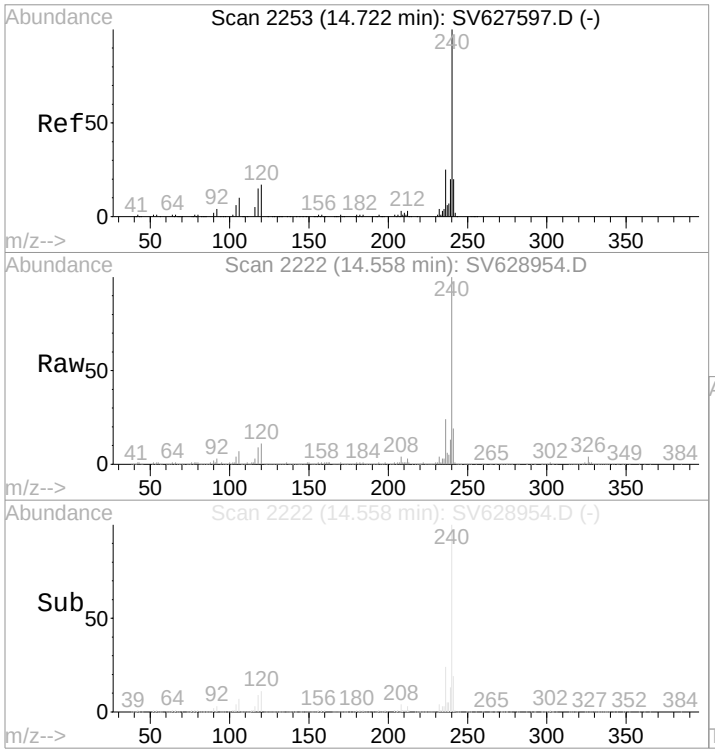


#78
Fluoranthene
Concen: 4.93 ug/mL
RT: 11.41 min Scan# 1632
Delta R.T. -0.17 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:202 Resp: 890302

Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.8	23.6
203	18.5	14.1	21.1
201	15.1	11.6	17.4

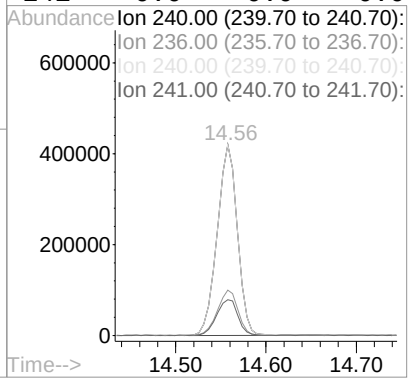


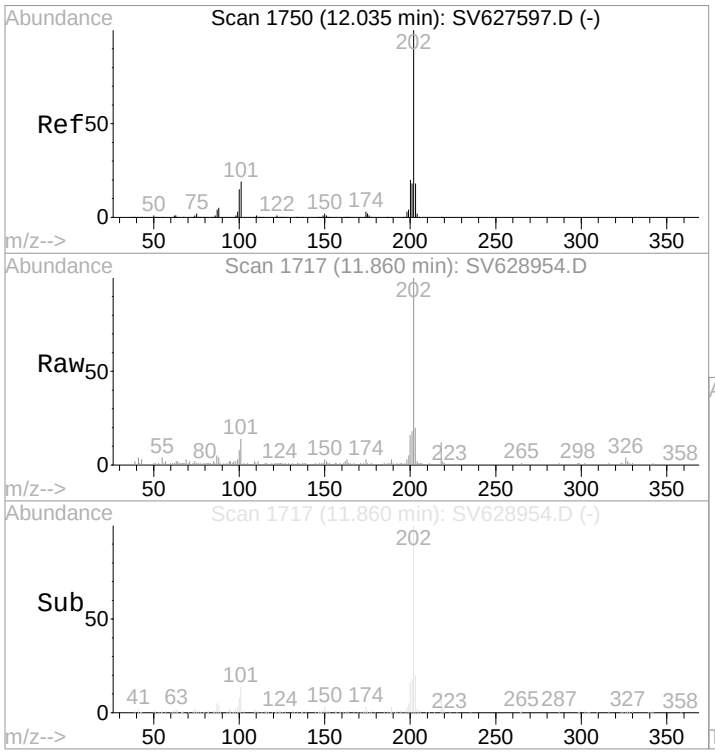


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.56 min Scan# 2222
Delta R.T. -0.16 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:240 Resp: 6562021

Ion	Ratio	Lower	Upper
240	100		
236	0.0	12.2	36.4#
240	100.0	50.0	150.0
241	0.0	0.0	0.0

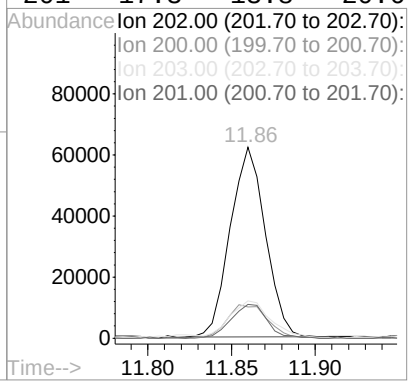


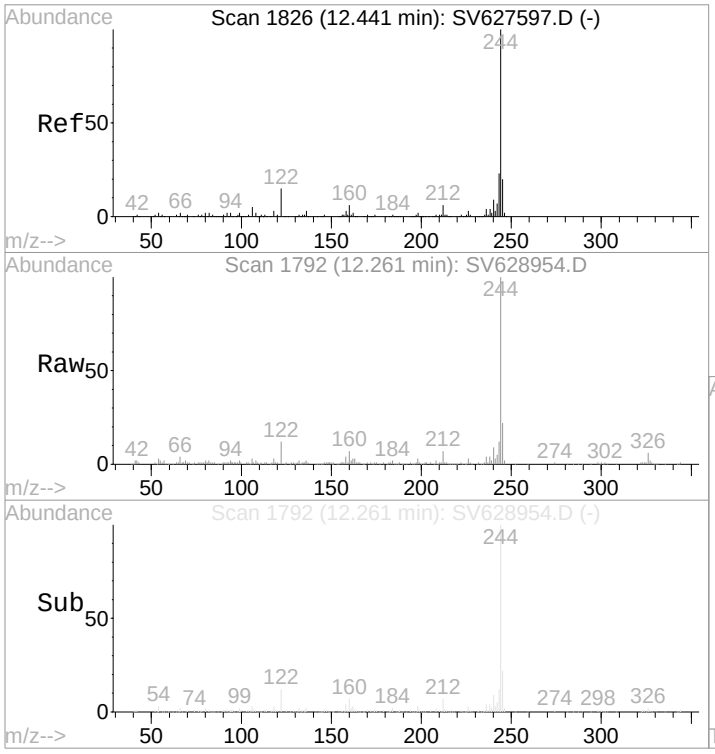


#81
Pyrene
Concen: 3.73 ug/mL
RT: 11.86 min Scan# 1717
Delta R.T. -0.17 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:202 Resp: 905549

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.2	24.2
203	23.1	14.6	22.0#
201	17.3	13.8	20.6

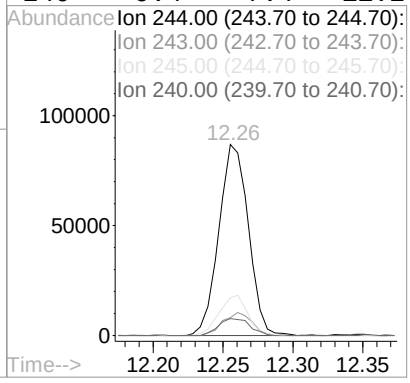


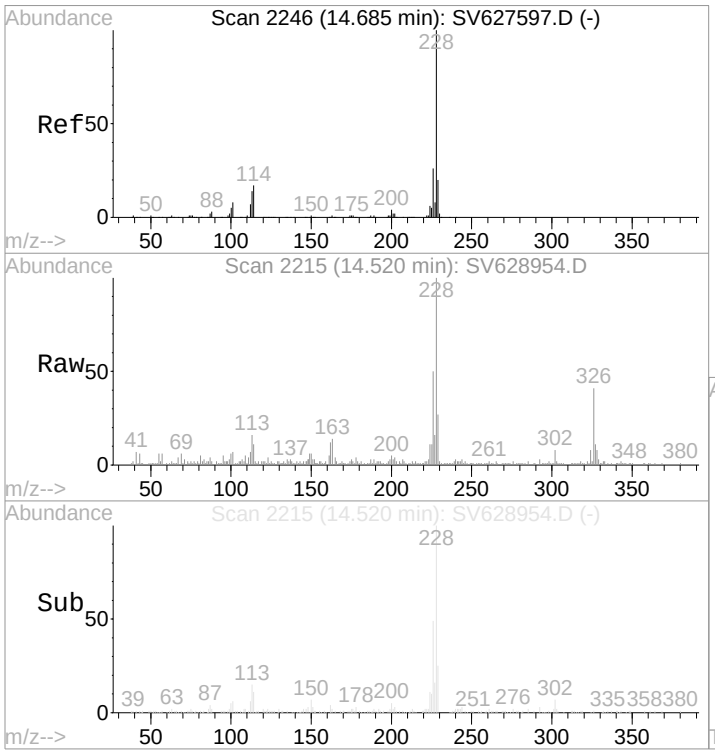


#82
Terphenyl-d14
Concen: 3.73 ug/mL
RT: 12.26 min Scan# 1792
Delta R.T. -0.18 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:244 Resp: 1277409

Ion	Ratio	Lower	Upper
244	100		
243	11.7	18.4	27.6#
245	20.1	15.4	23.0
240	9.4	7.4	11.2

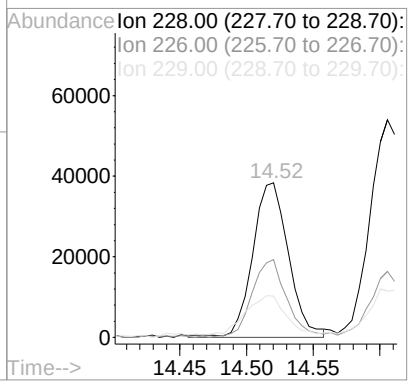


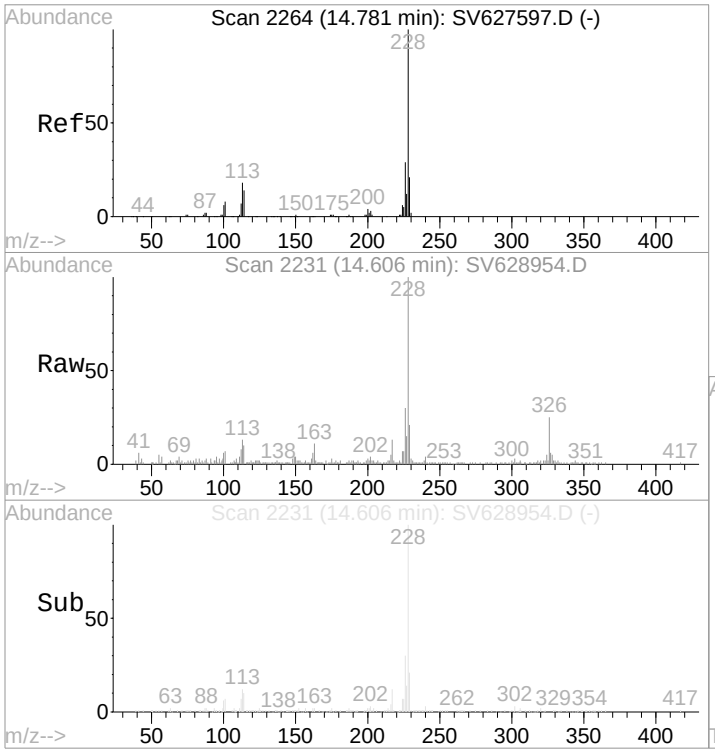


#85
Benz (a) anthracene
Concen: 3.28 ug/mL m
RT: 14.52 min Scan# 2215
Delta R.T. -0.16 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:228 Resp: 721321

Ion	Ratio	Lower	Upper
228	100		
226	40.9	21.3	31.9#
229	32.1	16.4	24.6#

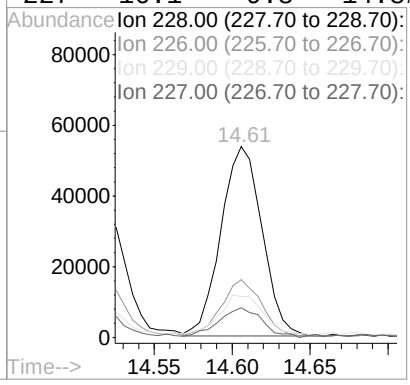


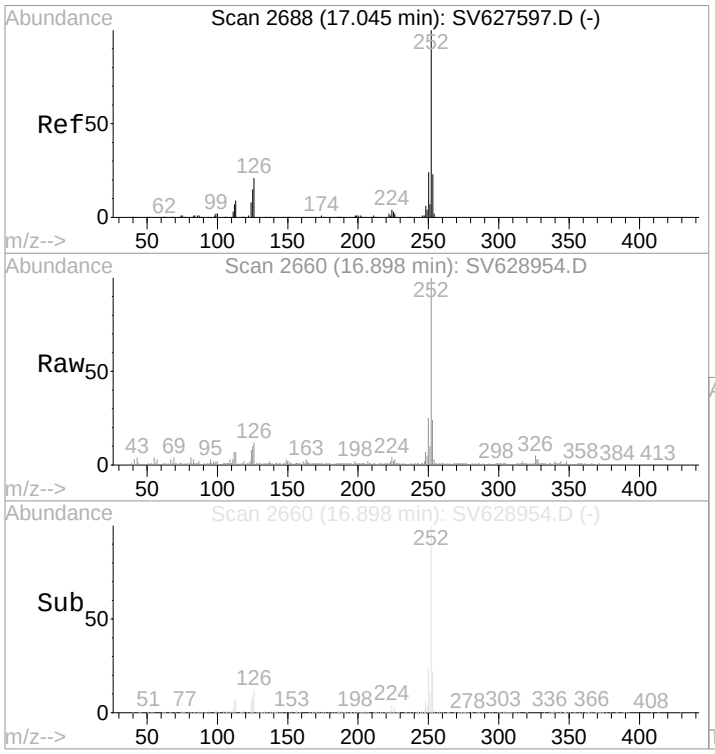


#87
Chrysene
Concen: 4.64 ug/mL
RT: 14.61 min Scan# 2231
Delta R.T. -0.17 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:228 Resp: 984865

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.6	35.4
229	23.5	15.5	23.3#
227	16.1	9.8	14.8#

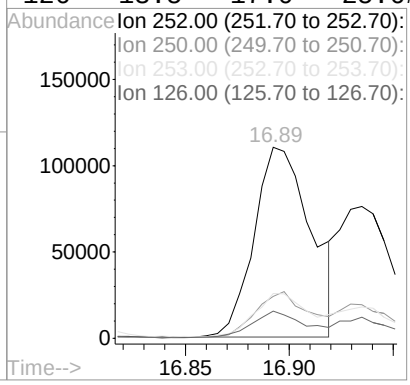


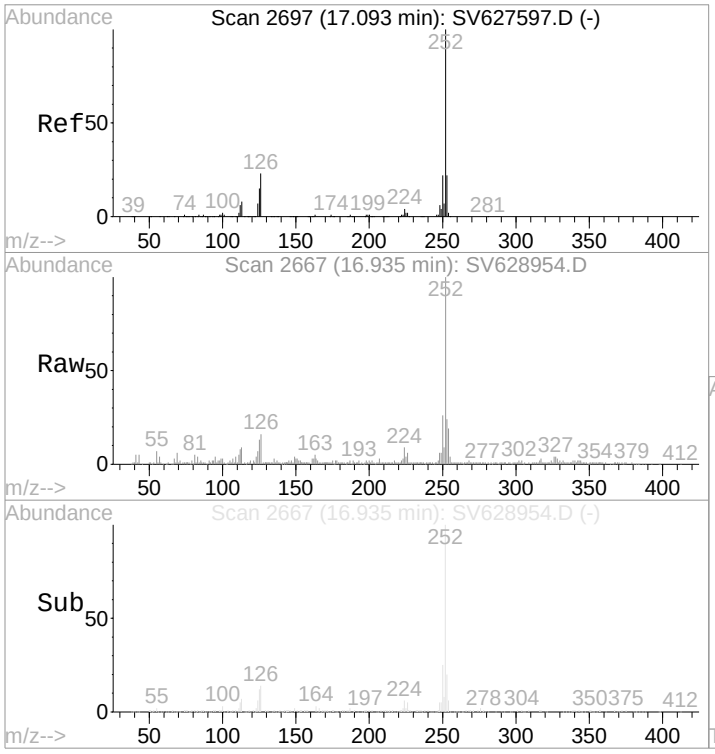


#89
Benzo(b)fluoranthene
Concen: 9.54 ug/mL
RT: 16.90 min Scan# 2660
Delta R.T. -0.14 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:252 Resp: 1905287

Ion	Ratio	Lower	Upper
252	100		
250	23.2	18.2	27.4
253	22.1	17.9	26.9
126	13.5	17.0	25.6#

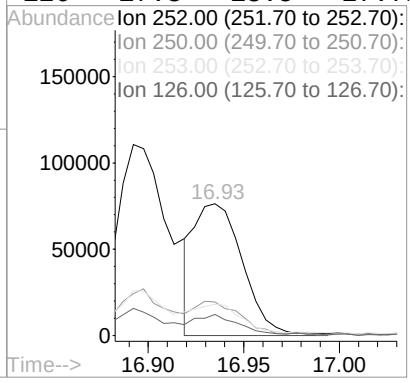


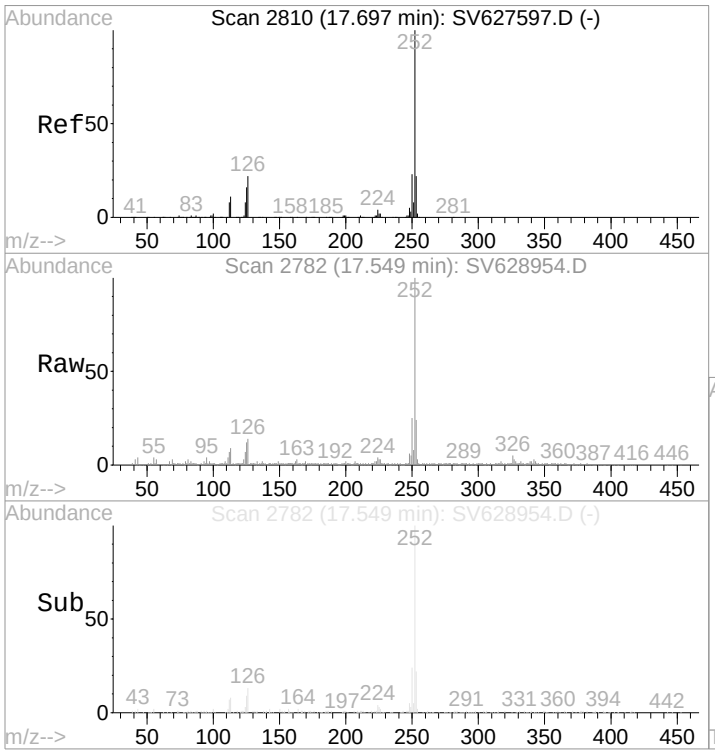


#90
Benzo(k)fluoranthene
Concen: 5.90 ug/mL m
RT: 16.93 min Scan# 2667
Delta R.T. -0.15 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:252 Resp: 1403051

Ion	Ratio	Lower	Upper
252	100		
250	31.6	17.2	25.8#
253	29.6	18.1	27.1#
126	17.3	18.5	27.7#

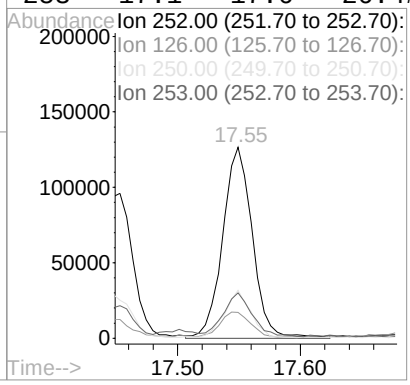


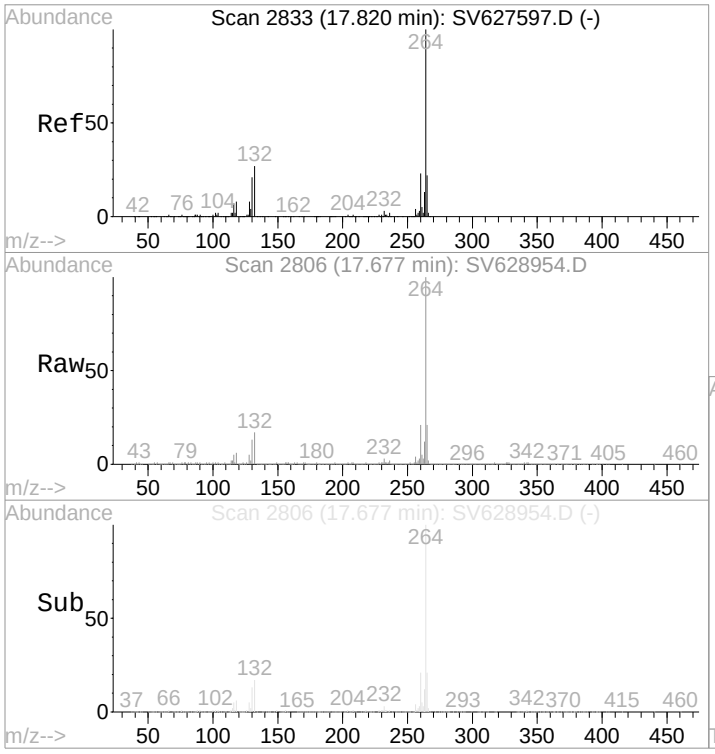


#91
Benzo(a)pyrene
Concen: 10.77 ug/mL m
RT: 17.55 min Scan# 2782
Delta R.T. -0.14 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:252 Resp: 2140620

Ion	Ratio	Lower	Upper
252	100		
126	9.6	18.4	27.6#
250	21.7	17.8	26.8
253	17.1	17.6	26.4#

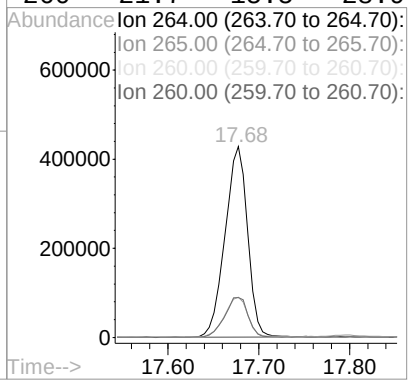


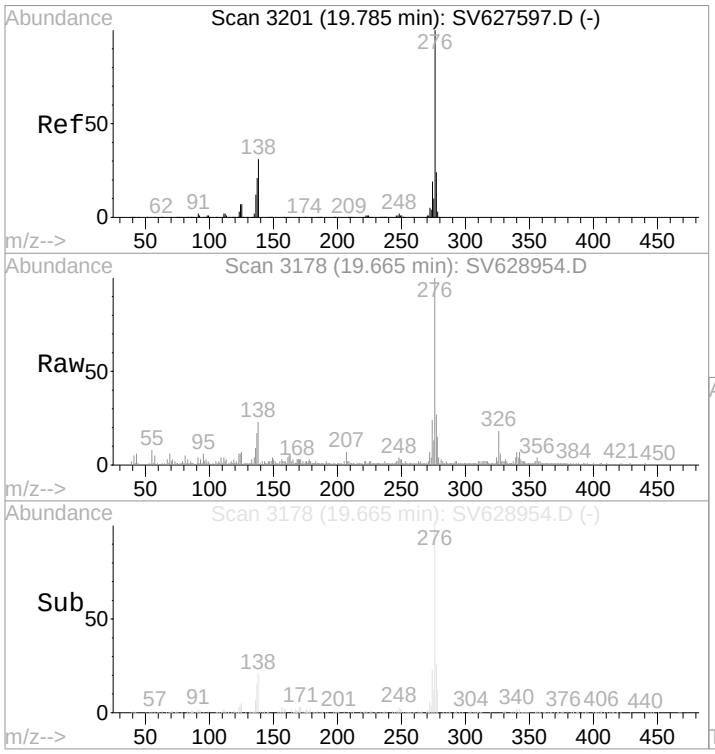


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.68 min Scan# 2806
Delta R.T. -0.14 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:264 Resp: 7367699

Ion	Ratio	Lower	Upper
264	100		
265	21.7	0.0	0.0#
260	21.7	17.8	26.6
260	21.7	15.5	28.9

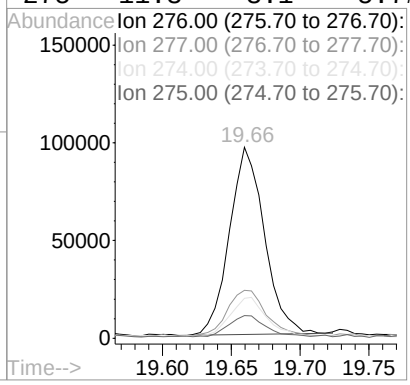


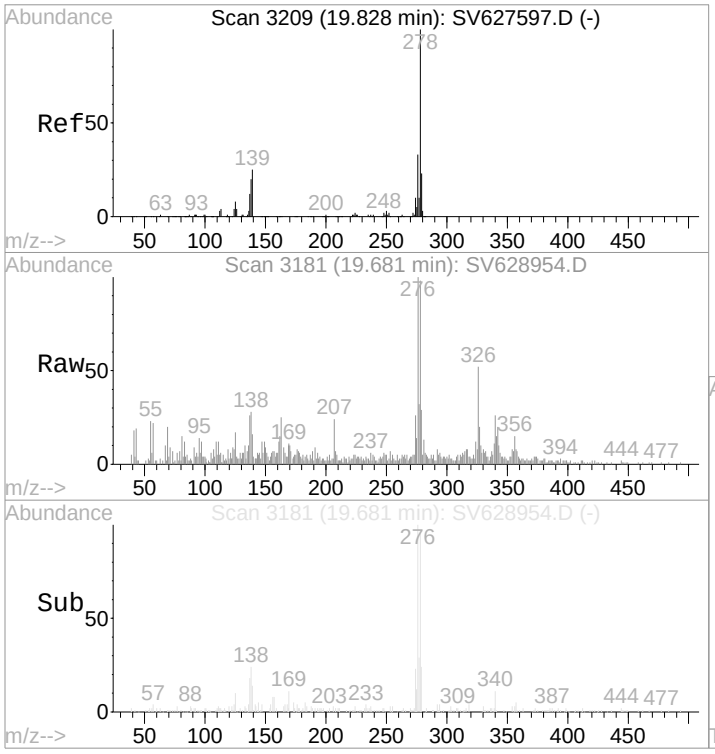


#93
Indeno(1,2,3-cd)pyrene
Concen: 7.55 ug/mL
RT: 19.66 min Scan# 3178
Delta R.T. -0.12 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:276 Resp: 1705538

Ion	Ratio	Lower	Upper
276	100		
277	27.1	12.9	19.3#
274	22.2	10.8	16.2#
275	11.3	3.1	5.7#

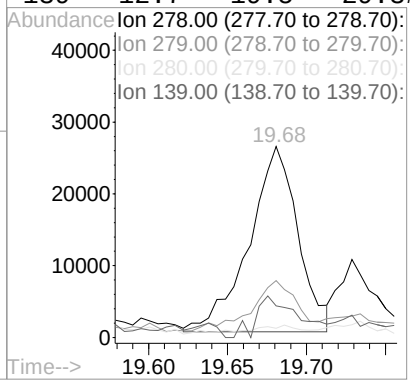


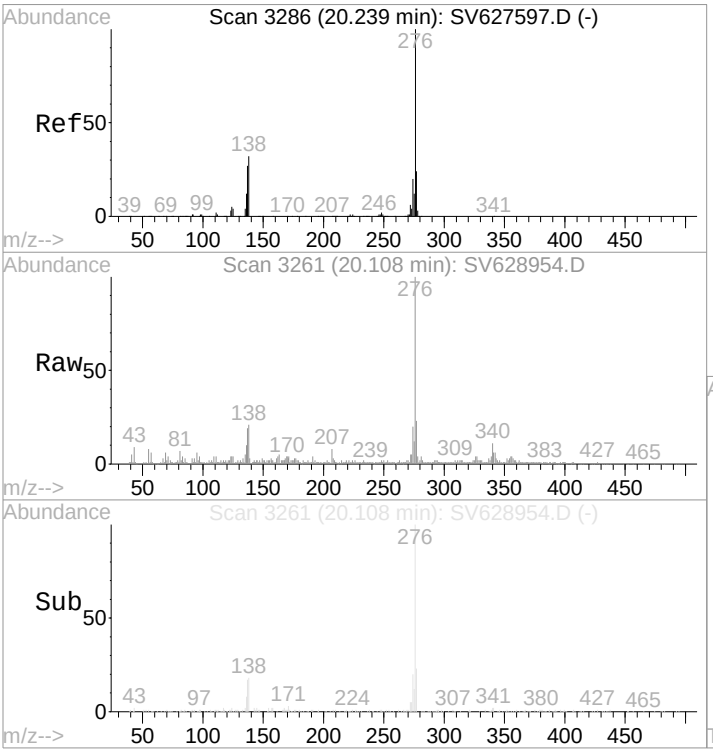


#94
Dibenz(a,h)anthracene
Concen: 3.39 ug/mL
RT: 19.68 min Scan# 3181
Delta R.T. -0.13 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:278 Resp: 547968

Ion	Ratio	Lower	Upper
278	100		
279	24.2	18.5	27.7
280	0.0	0.0	5.0
139	12.7	19.5	29.3#

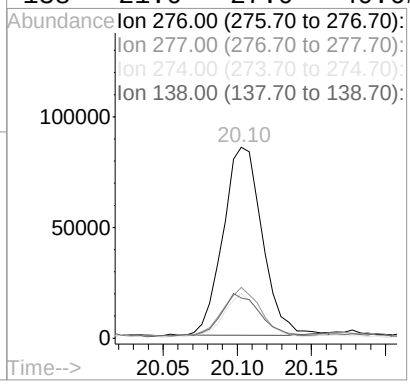




#95
Benzo(g,h,i)perylene
Concen: 7.35 ug/mL
RT: 20.11 min Scan# 3261
Delta R.T. -0.12 min
Lab File: SV628954.D
Acq: 10 Feb 2020 11:35 pm

Tgt Ion:276 Resp: 1568009

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.1	28.7
274	21.2	0.0	42.2
138	21.0	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-06	File ID:	SV628955.D
Sampled:	02/04/20 14:50	Prepared:	02/10/20 07:21	Analyzed:	02/11/20 00:07
Solids:	88.89	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 1 mL
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
92-52-4	1,1-Biphenyl	2	91.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	182	U
120-82-1	1,2,4-Trichlorobenzene	2	91.1	U
95-50-1	1,2-Dichlorobenzene	2	91.1	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	91.1	U
541-73-1	1,3-Dichlorobenzene	2	91.1	U
106-46-7	1,4-Dichlorobenzene	2	91.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	182	U
95-95-4	2,4,5-Trichlorophenol	2	91.1	U
88-06-2	2,4,6-Trichlorophenol	2	91.1	U
120-83-2	2,4-Dichlorophenol	2	91.1	U
105-67-9	2,4-Dimethylphenol	2	91.1	U
51-28-5	2,4-Dinitrophenol	2	182	U
121-14-2	2,4-Dinitrotoluene	2	91.1	U
606-20-2	2,6-Dinitrotoluene	2	91.1	U
91-58-7	2-Chloronaphthalene	2	91.1	U
95-57-8	2-Chlorophenol	2	91.1	U
91-57-6	2-Methylnaphthalene	2	91.1	U
95-48-7	2-Methylphenol	2	91.1	U
88-74-4	2-Nitroaniline	2	182	U
88-75-5	2-Nitrophenol	2	91.1	U
65794-96-9	3- & 4-Methylphenols	2	91.1	U
91-94-1	3,3-Dichlorobenzidine	2	91.1	U
99-09-2	3-Nitroaniline	2	182	U
534-52-1	4,6-Dinitro-2-methylphenol	2	182	U
101-55-3	4-Bromophenyl phenyl ether	2	91.1	U
59-50-7	4-Chloro-3-methylphenol	2	91.1	U
106-47-8	4-Chloroaniline	2	91.1	U
7005-72-3	4-Chlorophenyl phenyl ether	2	91.1	U
100-01-6	4-Nitroaniline	2	182	U
100-02-7	4-Nitrophenol	2	182	U
83-32-9	Acenaphthene	2	91.1	U
208-96-8	Acenaphthylene	2	346	D
98-86-2	Acetophenone	2	91.1	U
62-53-3	Aniline	2	365	U
120-12-7	Anthracene	2	206	D
1912-24-9	Atrazine	2	91.1	U
100-52-7	Benzaldehyde	2	91.1	U
92-87-5	Benzidine	2	365	U
56-55-3	Benzo(a)anthracene	2	631	D

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-06 File ID: SV628955.D

Sampled: 02/04/20 14:50 Prepared: 02/10/20 07:21 Analyzed: 02/11/20 00:07

Solids: 88.89 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
50-32-8	Benzo(a)pyrene	2	799	D
205-99-2	Benzo(b)fluoranthene	2	765	D
191-24-2	Benzo(g,h,i)perylene	2	698	D
207-08-9	Benzo(k)fluoranthene	2	650	D
65-85-0	Benzoic acid	2	91.1	U
100-51-6	Benzyl alcohol	2	91.1	U
85-68-7	Benzyl butyl phthalate	2	91.1	U
111-91-1	Bis(2-chloroethoxy)methane	2	91.1	U
111-44-4	Bis(2-chloroethyl)ether	2	91.1	U
108-60-1	Bis(2-chloroisopropyl)ether	2	91.1	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	91.1	U
105-60-2	Caprolactam	2	182	U
86-74-8	Carbazole	2	135	D
218-01-9	Chrysene	2	768	D
53-70-3	Dibenzo(a,h)anthracene	2	281	D
132-64-9	Dibenzofuran	2	91.1	U
84-66-2	Diethyl phthalate	2	91.1	U
131-11-3	Dimethyl phthalate	2	91.1	U
84-74-2	Di-n-butyl phthalate	2	91.1	U
117-84-0	Di-n-octyl phthalate	2	91.1	U
206-44-0	Fluoranthene	2	1610	D
86-73-7	Fluorene	2	56.8	JD
118-74-1	Hexachlorobenzene	2	91.1	U
87-68-3	Hexachlorobutadiene	2	91.1	U
77-47-4	Hexachlorocyclopentadiene	2	91.1	U
67-72-1	Hexachloroethane	2	91.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	617	D
78-59-1	Isophorone	2	91.1	U
91-20-3	Naphthalene	2	91.1	U
98-95-3	Nitrobenzene	2	91.1	U
62-75-9	N-Nitrosodimethylamine	2	91.1	U
621-64-7	N-nitroso-di-n-propylamine	2	91.1	U
86-30-6	N-Nitrosodiphenylamine	2	91.1	U
87-86-5	Pentachlorophenol	2	91.1	U
85-01-8	Phenanthrene	2	840	D
108-95-2	Phenol	2	91.1	U
129-00-0	Pyrene	2	1120	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1820	987	54.2	20 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-06	File ID:	SV628955.D
Sampled:	02/04/20 14:50	Prepared:	02/10/20 07:21	Analyzed:	02/11/20 00:07
Solids:	88.89	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 1 mL
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: Phenol-d5	1820	1190	65.6	23 - 114	
SURR: Nitrobenzene-d5	910	638	70.1	22 - 108	
SURR: 2-Fluorobiphenyl	910	656	72.1	21 - 113	
SURR: 2,4,6-Tribromophenol	1820	2000	110	19 - 110	
SURR: Terphenyl-d14	910	711	78.1	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1094754	4.8	943755	4.8	
ISTD: Naphthalene-d8	4417094	5.74	4094325	5.74	
ISTD: Acenaphthene-d10	2767213	7.24	2468626	7.23	
ISTD: Phenanthrene-d10	5934816	9.17	5181551	9.17	
ISTD: Chrysene-d12	6861479	14.56	5930644	14.55	
ISTD: Perylene-d12	7566627	17.68	6994074	17.66	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628955.D Vial: 18
Acq On : 11 Feb 2020 12:07 am Operator: OW
Sample : 20B0093-06 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:49 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

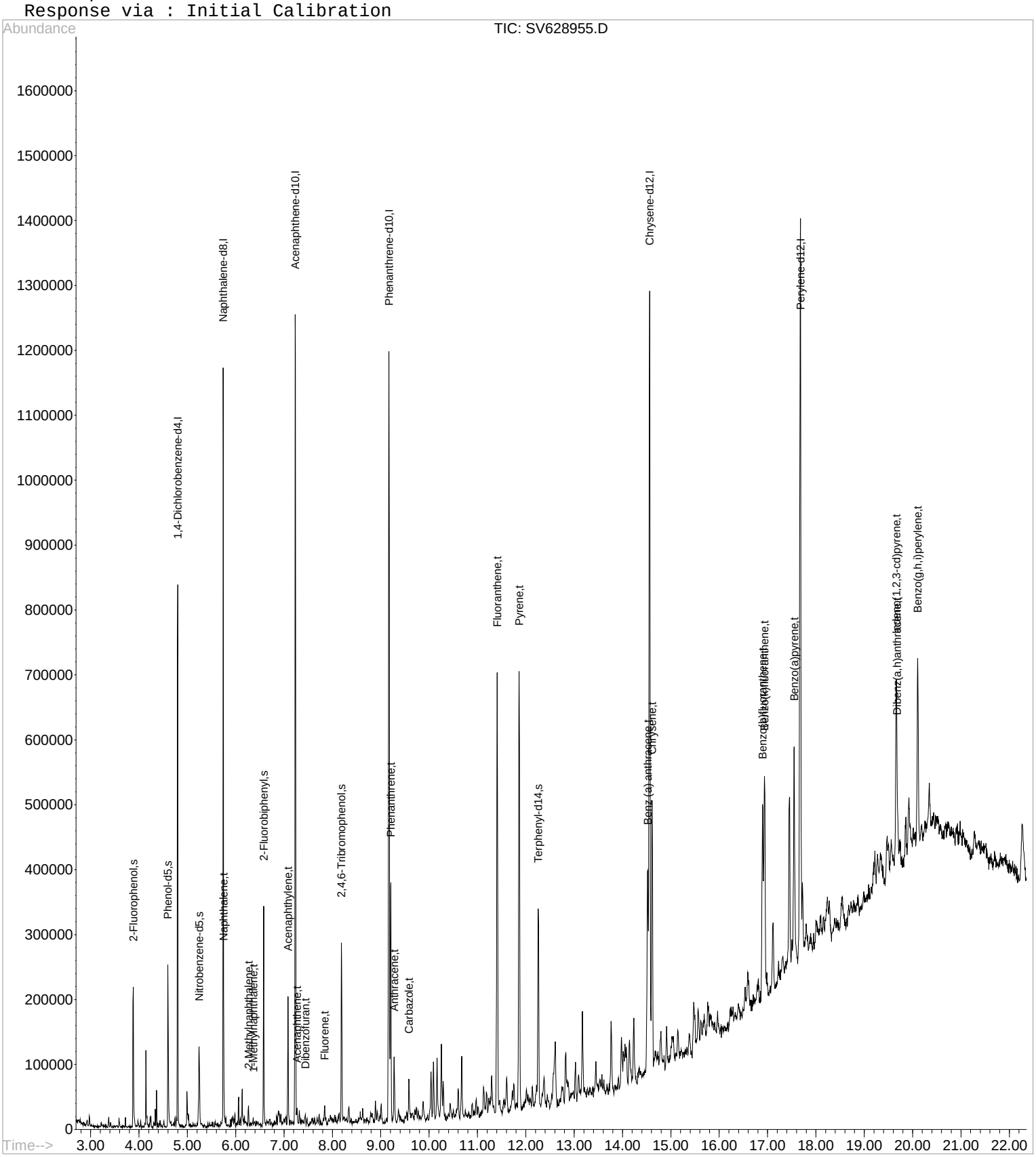
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	1094754	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	4417094	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2767213	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	5934816	40.00	ug/mL	-0.16
80) Chrysene-d12	14.56	240	6861479	40.00	ug/mL	-0.16
92) Perylene-d12	17.68	264	7566627	40.00	ug/mL	-0.14
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	541751	13.55	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 18.07%			
5) Phenol-d5	4.60	99	827847	16.40	ug/mL	-0.06
Spiked Amount 75.000	Range 10 - 100		Recovery = 21.87%			
22) Nitrobenzene-d5	5.24	82	340867	8.76	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 17.52%#			
45) 2-Fluorobiphenyl	6.58	172	860876	9.01	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 18.02%#			
67) 2,4,6-Tribromophenol	8.19	330	412433	27.43	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 36.57%			
82) Terphenyl-d14	12.26	244	1631145	9.76	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery = 19.52%#			
Target Compounds						Qvalue
32) Naphthalene	5.76	128	31432	0.28	ug/mL#	39
37) 1-Methylnaphthalene	6.36	141	22588	0.28	ug/mL#	79
38) 2-Methylnaphthalene	6.28	142	22525	0.28	ug/mL#	85
50) Acenaphthylene	7.08	152	685773	4.75	ug/mL	97
52) Acenaphthene	7.27	154	38279	0.47	ug/mL#	89
54) Dibenzofuran	7.44	168	38573	0.31	ug/mL#	49
59) Fluorene	7.84	166	78332	0.78	ug/mL#	87
73) Phenanthrene	9.21	178	1828257	11.53	ug/mL	99
74) Anthracene	9.28	178	474811	2.83	ug/mL#	93
75) Carbazole	9.59	167	324764	1.86	ug/mL#	100
78) Fluoranthene	11.41	202	4137630	22.07	ug/mL	99
81) Pyrene	11.86	202	3896909	15.36	ug/mL	98
85) Benz (a) anthracene	14.52	228	1995558m	8.67	ug/mL	
87) Chrysene	14.61	228	2339870	10.55	ug/mL#	96
89) Benzo(b)fluoranthene	16.90	252	2194493	10.51	ug/mL#	93
90) Benzo(k)fluoranthene	16.94	252	2221488m	8.93	ug/mL	
91) Benzo(a)pyrene	17.55	252	2283554m	10.98	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.66	276	1967342	8.48	ug/mL#	79
94) Dibenz(a,h)anthracene	19.69	278	640548	3.86	ug/mL#	81
95) Benzo(g,h,i)perylene	20.11	276	2099145	9.58	ug/mL#	90

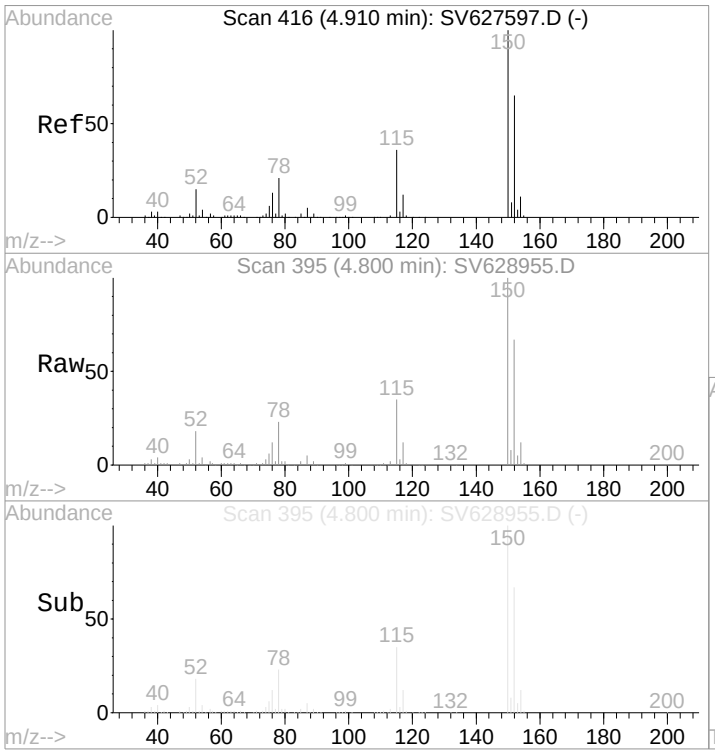
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628955.D Vial: 18
Acq On : 11 Feb 2020 12:07 am Operator: OW
Sample : 20B0093-06 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:49 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

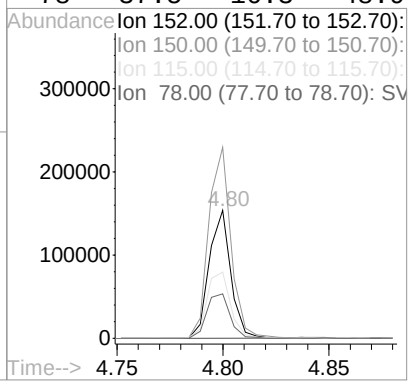


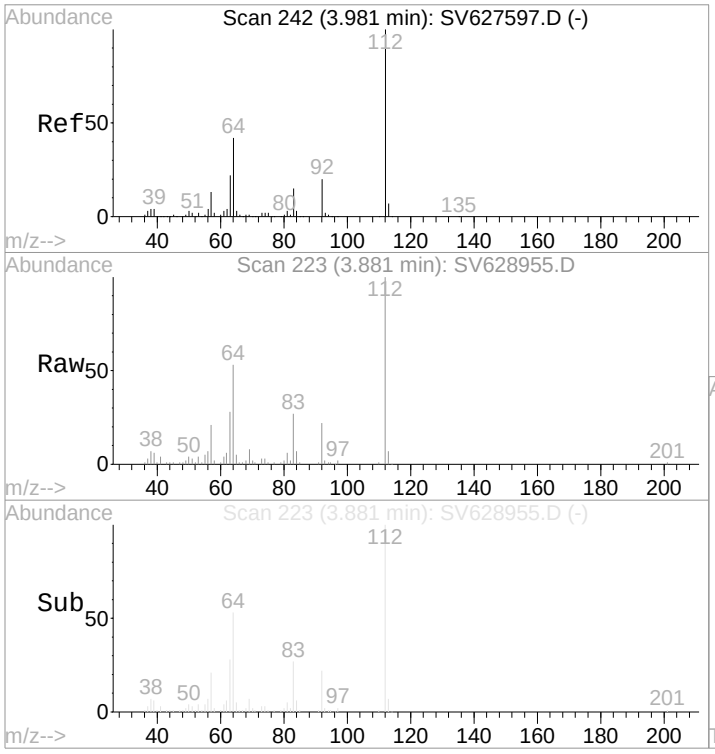


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 395
Delta R.T. -0.11 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:152 Resp: 1094754

Ion	Ratio	Lower	Upper
152	100		
150	151.2	84.8	254.4
115	56.8	27.5	82.4
78	37.5	16.3	48.9

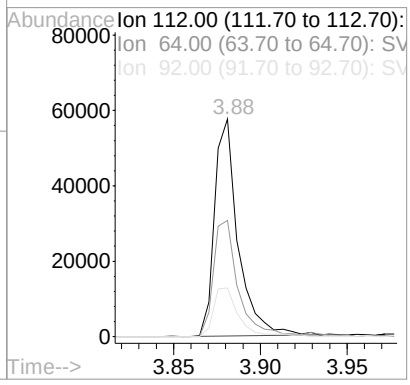


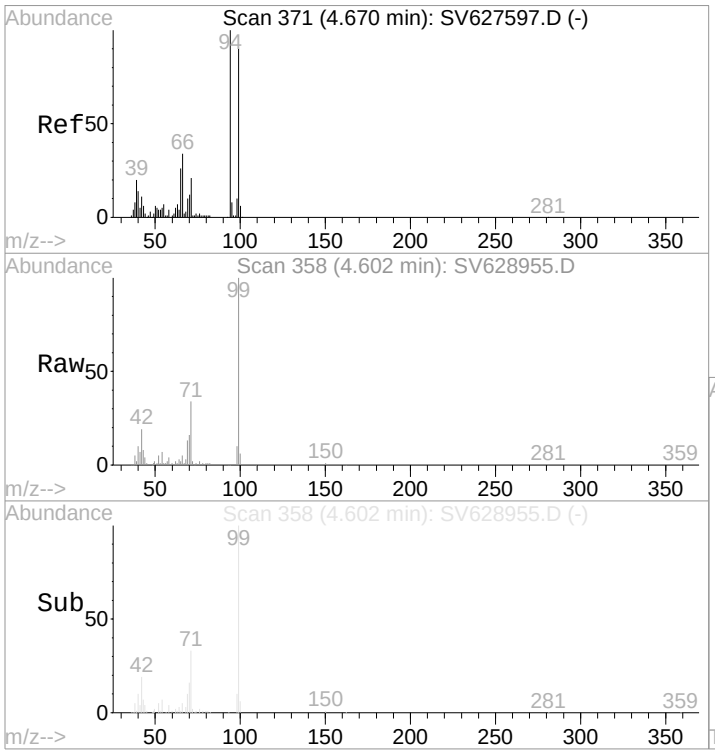


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.88 min Scan# 223
Delta R.T. -0.10 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:112 Resp: 541751

Ion	Ratio	Lower	Upper
112	100		
64	57.8	36.6	54.8#
92	24.2	16.2	24.4

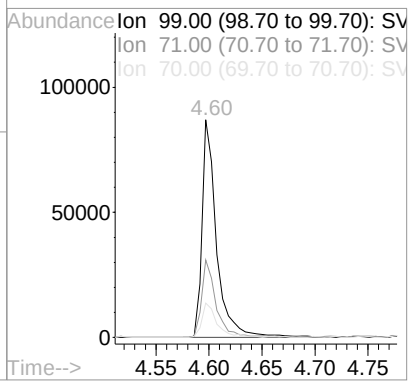


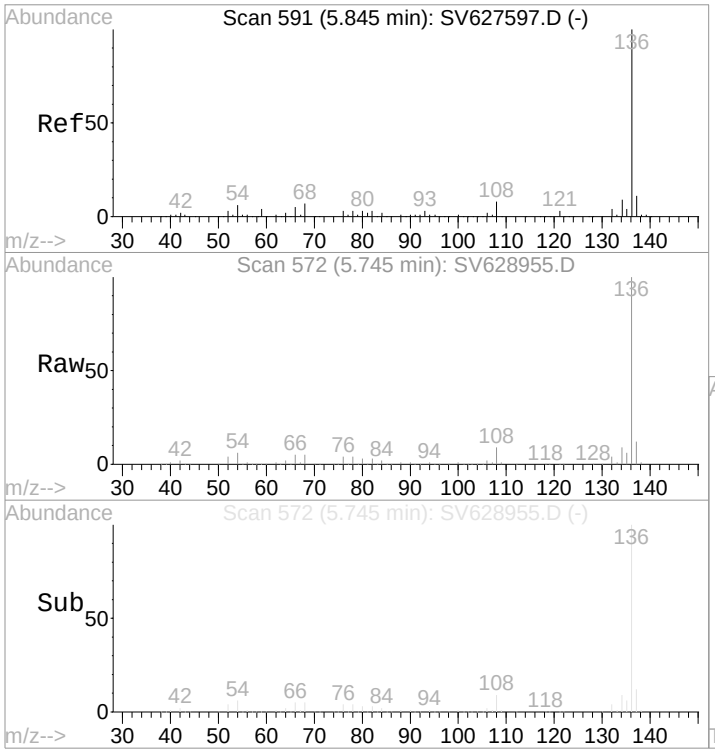


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.60 min Scan# 358
Delta R.T. -0.06 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion: 99 Resp: 827847

Ion	Ratio	Lower	Upper
99	100		
71	34.6	20.5	30.7#
70	16.5	10.3	15.5#

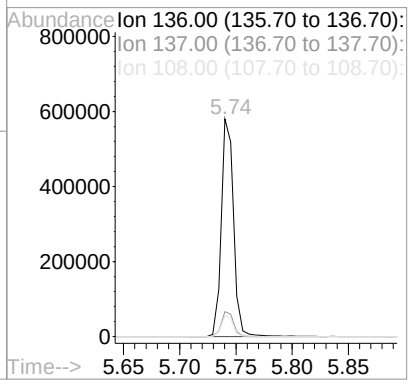


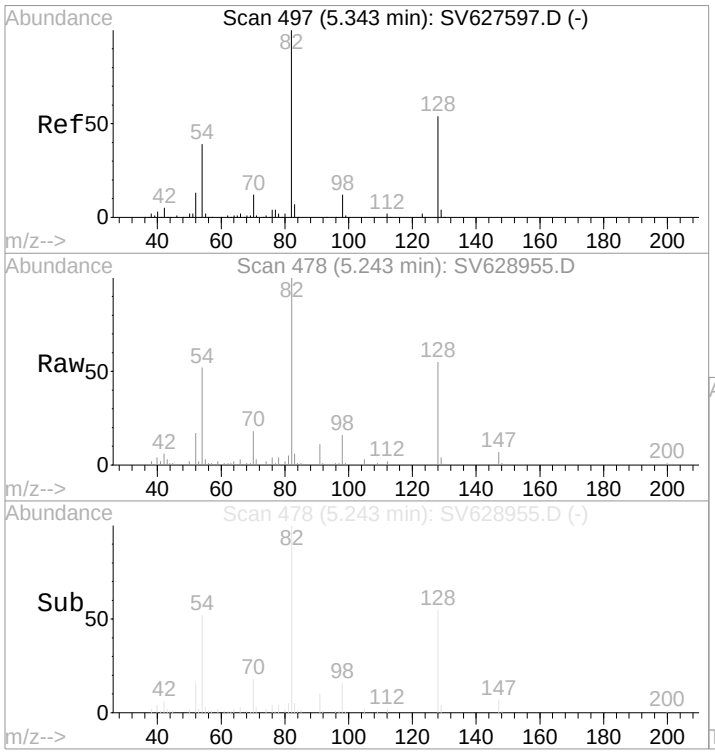


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.74 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:136 Resp: 4417094

Ion	Ratio	Lower	Upper
136	100		
137	11.5	5.7	17.0
108	9.6	4.2	12.4

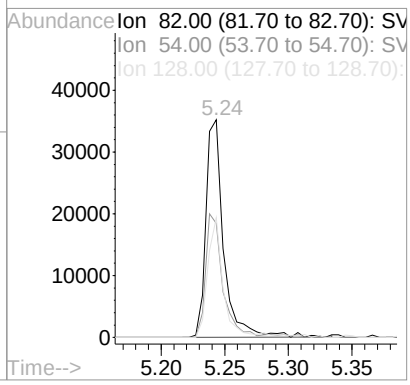


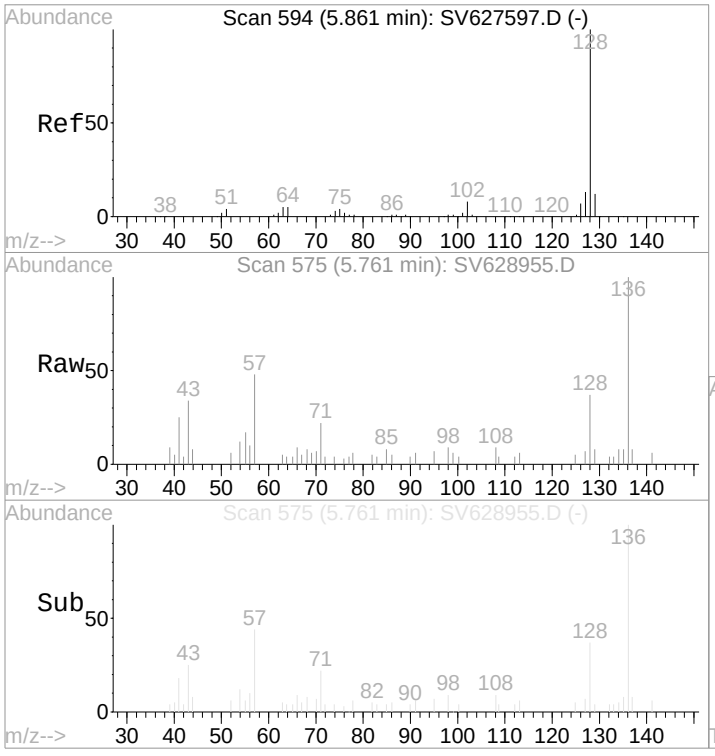


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.24 min Scan# 478
Delta R.T. -0.10 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion: 82 Resp: 340867

Ion	Ratio	Lower	Upper
82	100		
54	56.6	32.4	48.6#
128	50.4	41.3	61.9

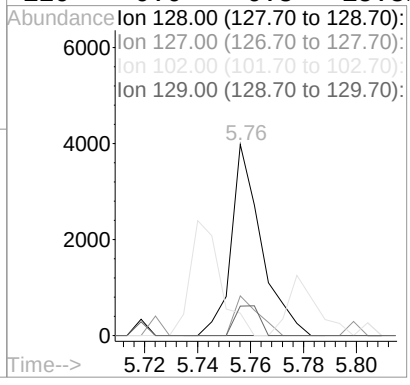


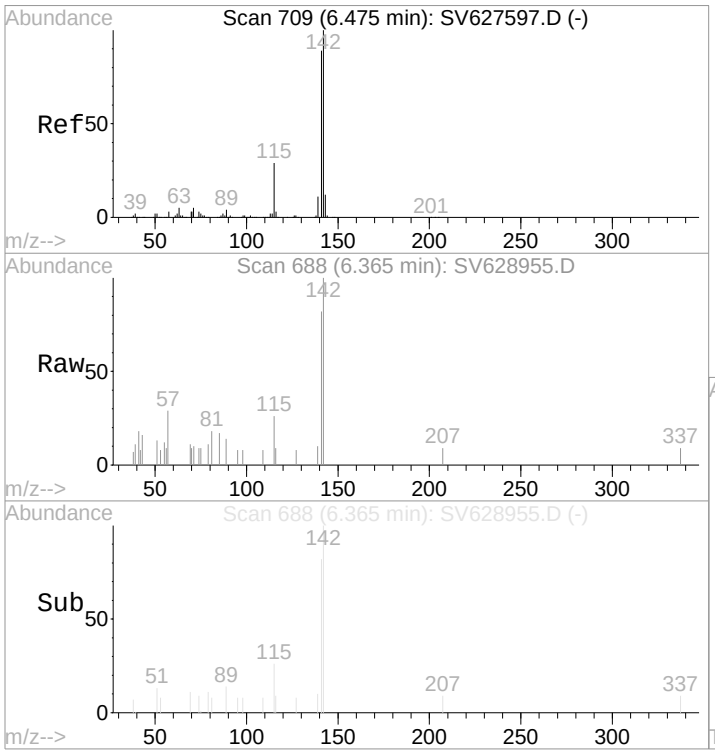


#32
Naphthalene
Concen: 0.28 ug/mL
RT: 5.76 min Scan# 575
Delta R.T. -0.10 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:128 Resp: 31432

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
102	60.5	4.1	12.3#
129	0.0	6.8	15.8#

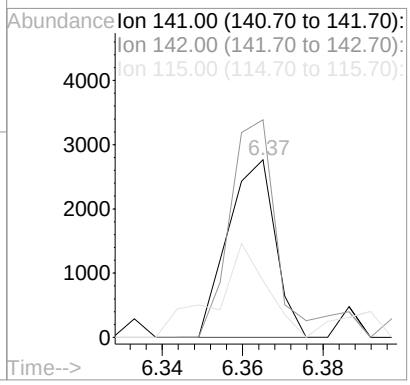


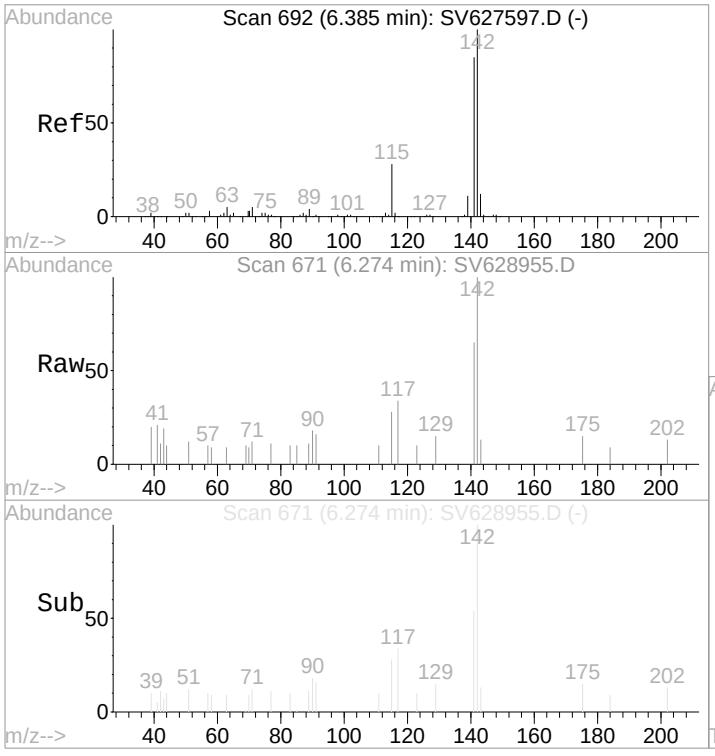


#37
1-Methylnaphthalene
Concen: 0.28 ug/mL
RT: 6.36 min Scan# 688
Delta R.T. -0.11 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:141 Resp: 22588

Ion	Ratio	Lower	Upper
141	100		
142	104.5	90.6	135.8
115	0.0	28.2	42.4#

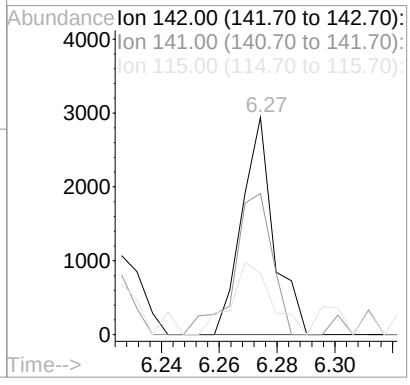


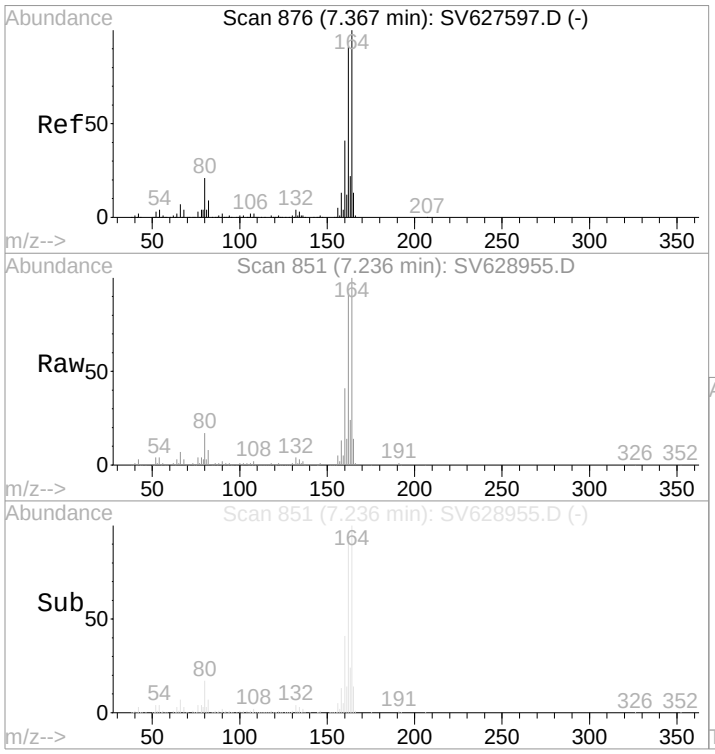


#38
2-Methylnaphthalene
Concen: 0.28 ug/mL
RT: 6.28 min Scan# 671
Delta R.T. -0.11 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:142 Resp: 22525

Ion	Ratio	Lower	Upper
142	100		
141	86.0	67.4	101.2
115	0.0	23.4	35.0#

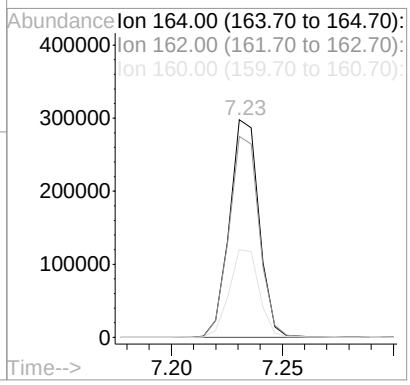


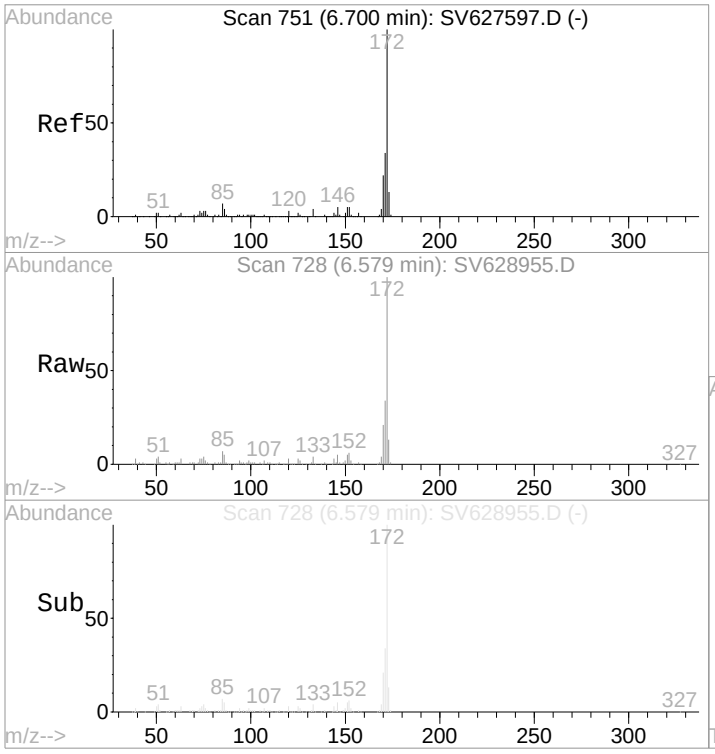


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.24 min Scan# 851
Delta R.T. -0.13 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:164 Resp: 2767213

Ion	Ratio	Lower	Upper
164	100		
162	94.6	46.5	139.3
160	40.3	20.9	62.7

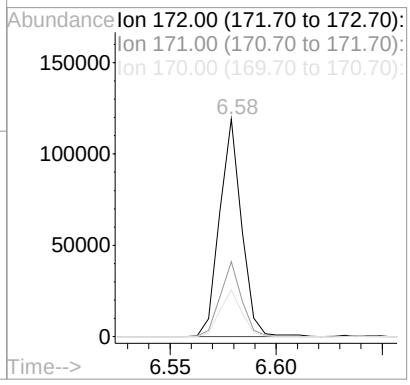


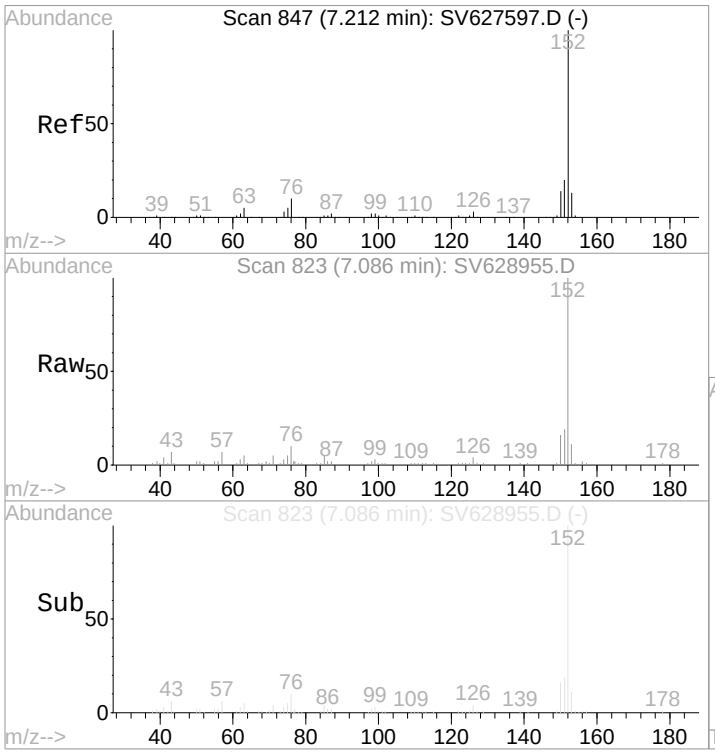


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 728
Delta R.T. -0.12 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:172 Resp: 860876

Ion	Ratio	Lower	Upper
172	100		
171	33.8	27.2	40.8
170	21.4	18.1	27.1

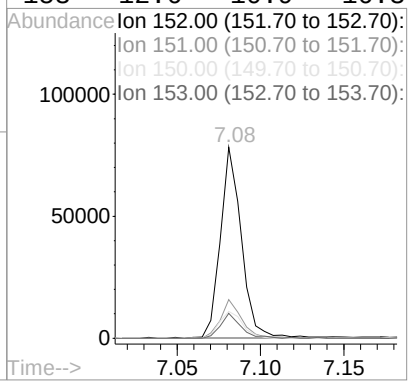


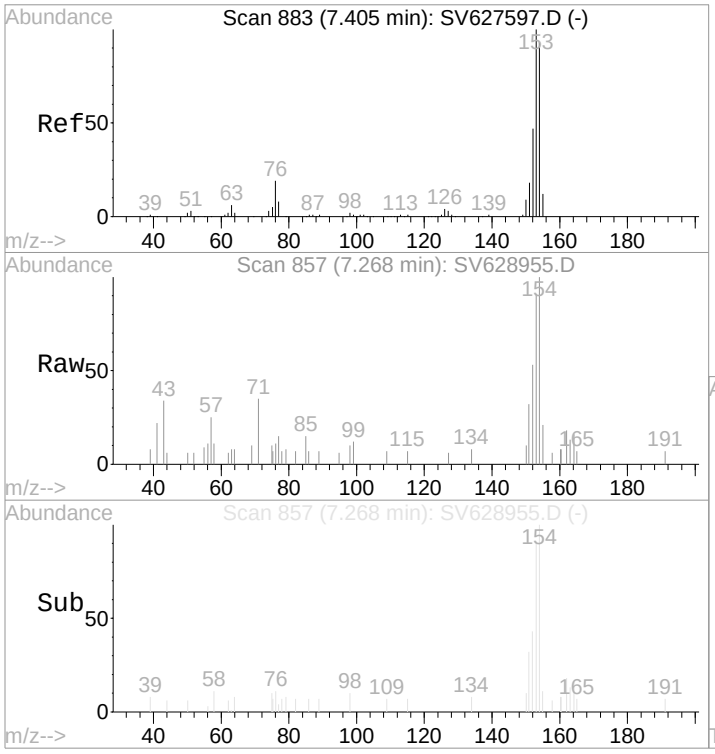


#50
Acenaphthylene
Concen: 4.75 ug/mL
RT: 7.08 min Scan# 823
Delta R.T. -0.13 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:152 Resp: 685773

Ion	Ratio	Lower	Upper
152	100		
151	21.3	15.7	23.5
150	15.4	11.2	16.8
153	12.6	10.9	16.3

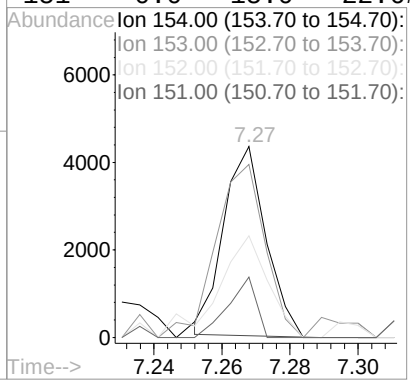


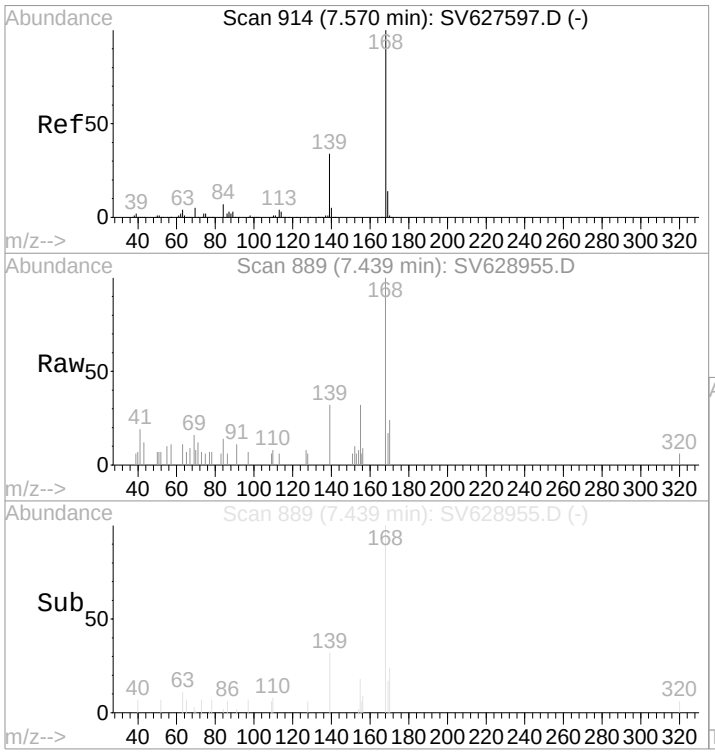


#52
Acenaphthene
Concen: 0.47 ug/mL
RT: 7.27 min Scan# 857
Delta R.T. -0.13 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:154 Resp: 38279

Ion	Ratio	Lower	Upper
154	100		
153	103.6	86.2	129.4
152	61.1	40.4	60.6#
151	0.0	15.0	22.6#

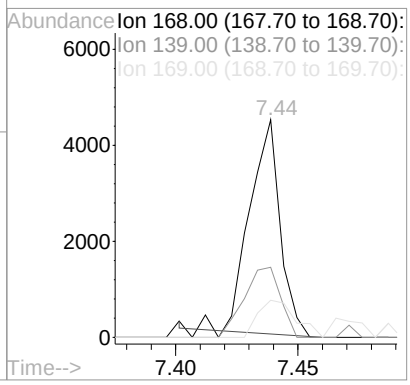


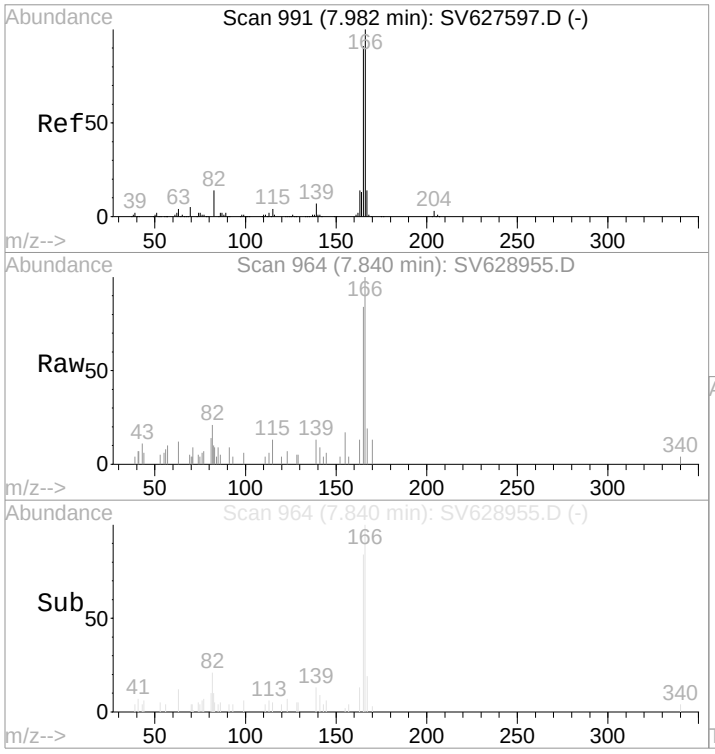


#54
Dibenzofuran
Concen: 0.31 ug/mL
RT: 7.44 min Scan# 889
Delta R.T. -0.13 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:168 Resp: 38573

Ion	Ratio	Lower	Upper
168	100		
139	0.0	26.6	40.0#
169	0.0	11.0	16.4#

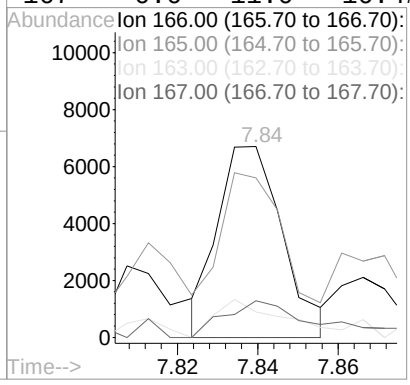


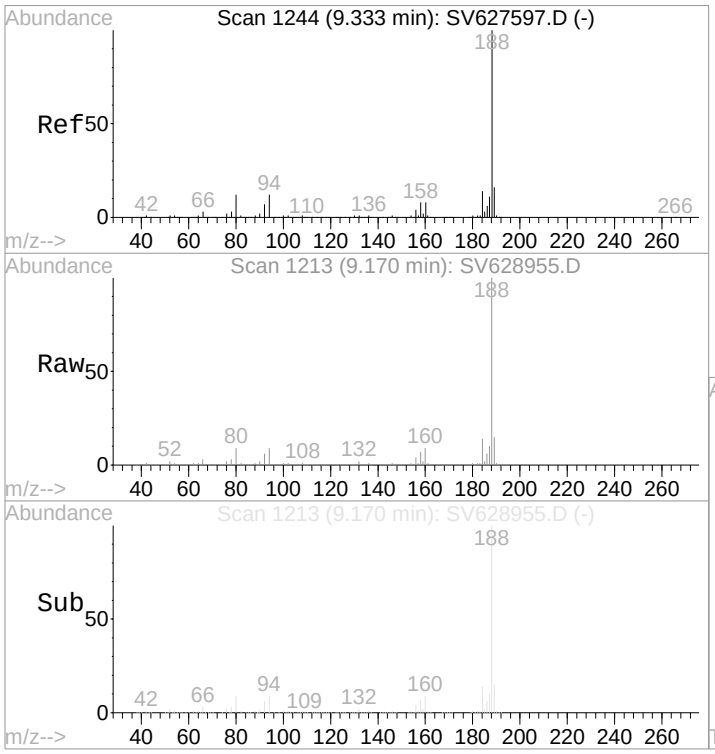


#59
Fluorene
Concen: 0.78 ug/mL
RT: 7.84 min Scan# 964
Delta R.T. -0.14 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:166 Resp: 78332

Ion	Ratio	Lower	Upper
166	100		
165	84.7	72.6	109.0
163	0.0	11.5	17.3#
167	0.0	11.0	16.4#

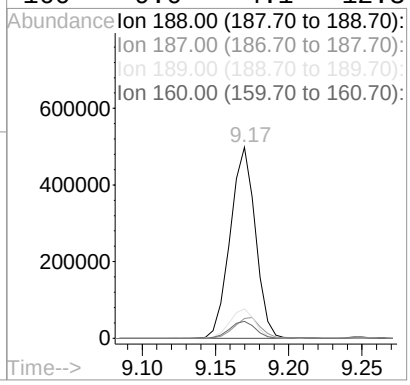


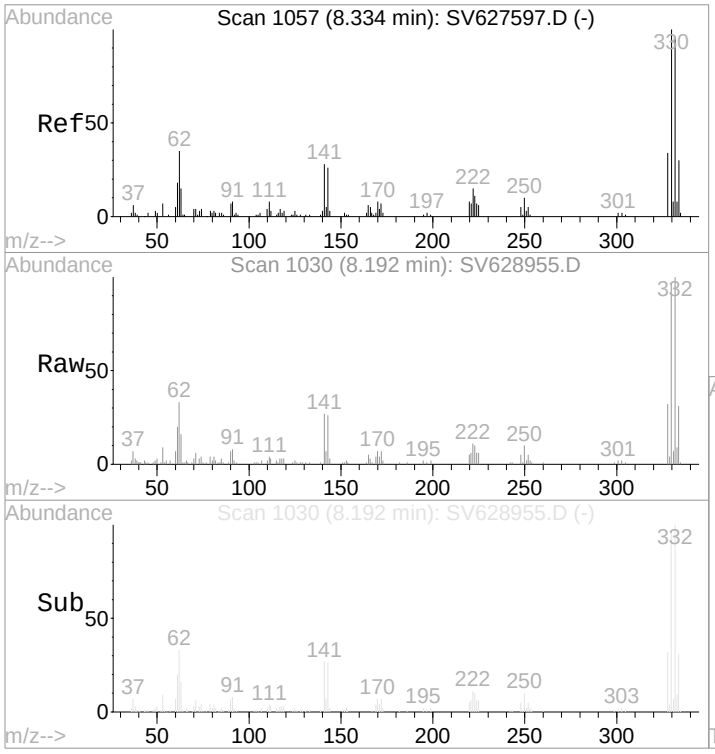


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.17 min Scan# 1213
Delta R.T. -0.16 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:188 Resp: 5934816

Ion	Ratio	Lower	Upper
188	100		
187	11.3	8.4	12.6
189	15.4	8.0	23.8
160	9.0	4.1	12.3

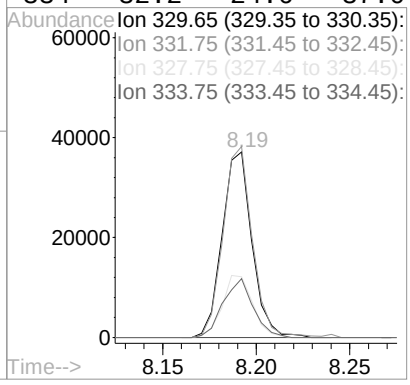


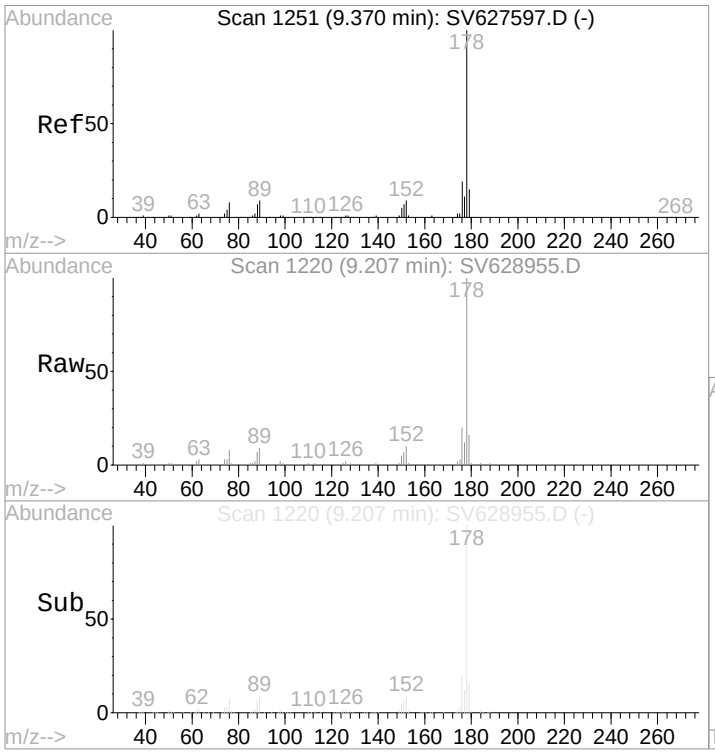


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.19 min Scan# 1030
Delta R.T. -0.14 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:330 Resp: 412433

Ion	Ratio	Lower	Upper
330	100		
332	99.6	74.2	111.2
328	34.0	28.5	42.7
334	32.2	24.6	37.0

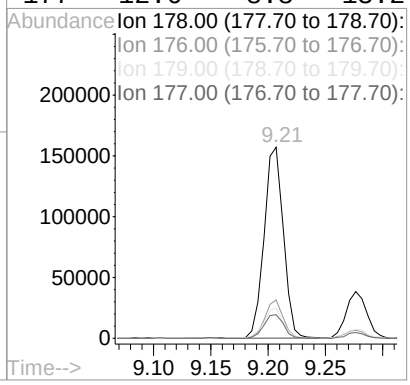


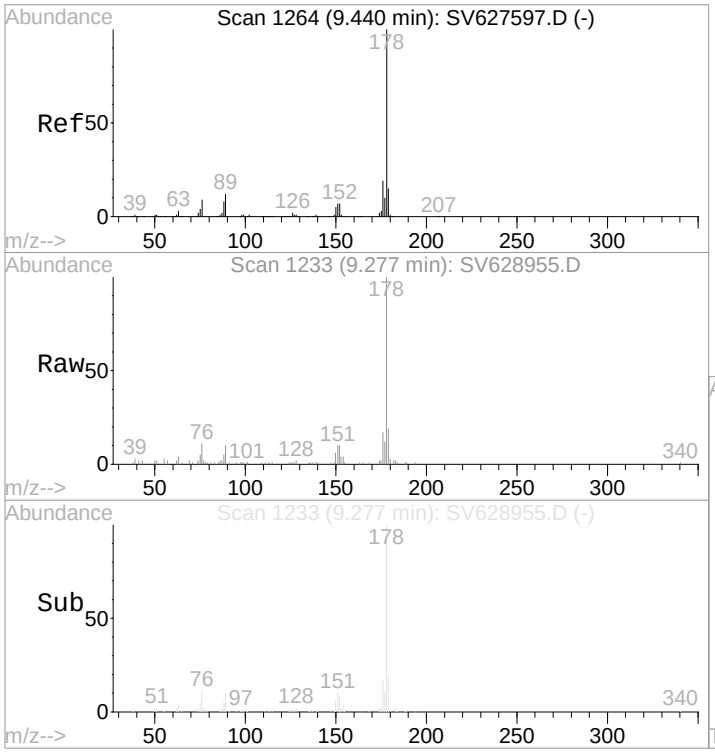


#73
Phenanthrene
Concen: 11.53 ug/mL
RT: 9.21 min Scan# 1220
Delta R.T. -0.16 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:178 Resp: 1828257

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.2	22.8
179	15.8	12.5	18.7
177	12.6	8.8	13.2

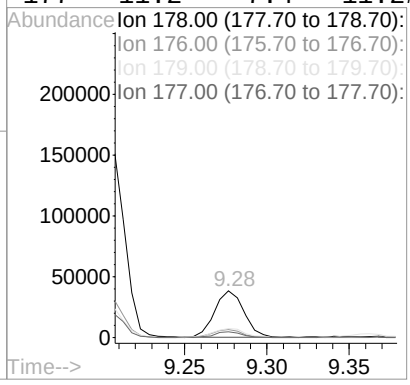


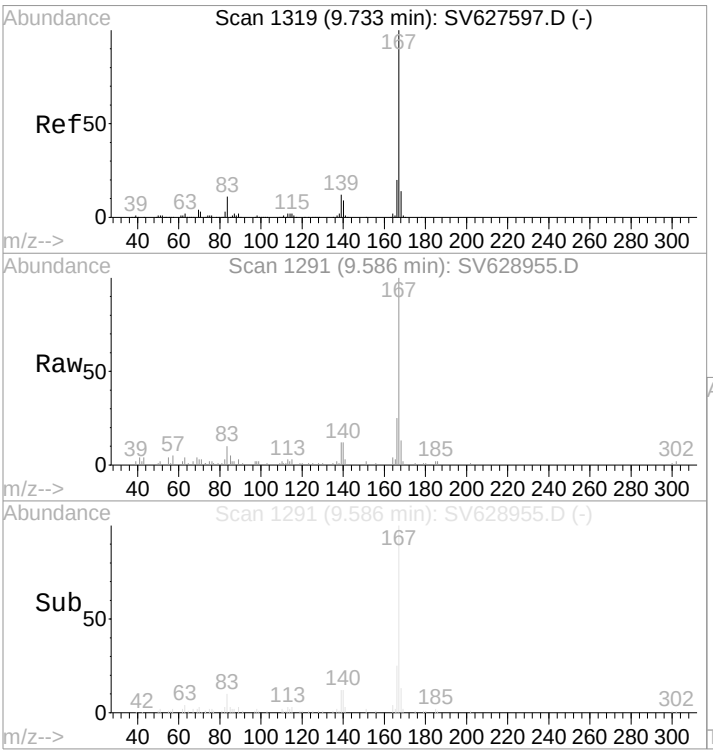


#74
Anthracene
Concen: 2.83 ug/mL
RT: 9.28 min Scan# 1233
Delta R.T. -0.16 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:178 Resp: 474811

Ion	Ratio	Lower	Upper
178	100		
176	17.2	14.5	21.7
179	21.2	12.5	18.7#
177	11.2	7.4	11.2#

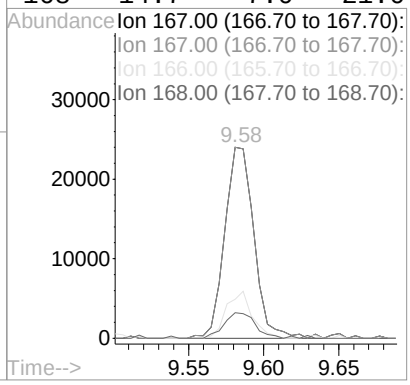


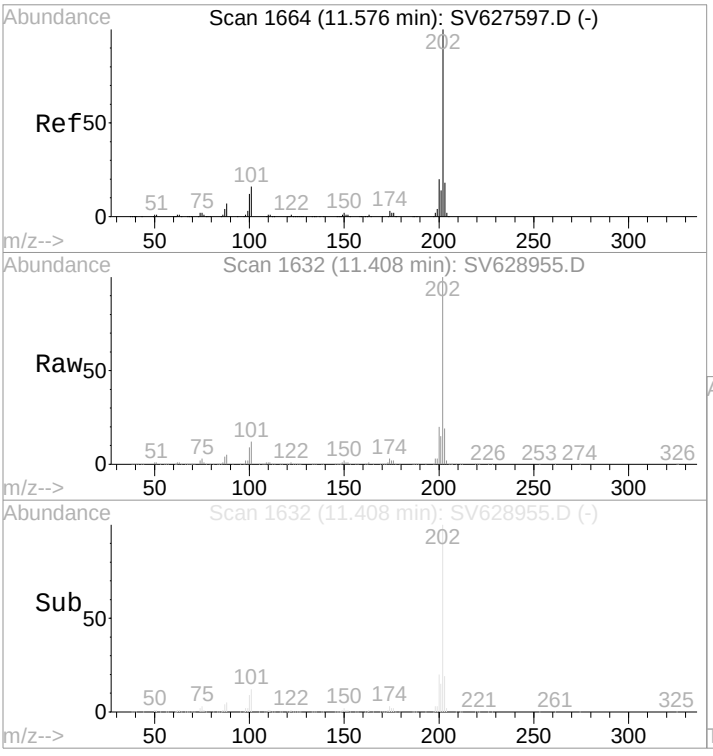


#75
Carbazole
Concen: 1.86 ug/mL
RT: 9.59 min Scan# 1291
Delta R.T. -0.15 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:167 Resp: 324764

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	0.0	0.0	0.0
168	14.7	7.0	21.0

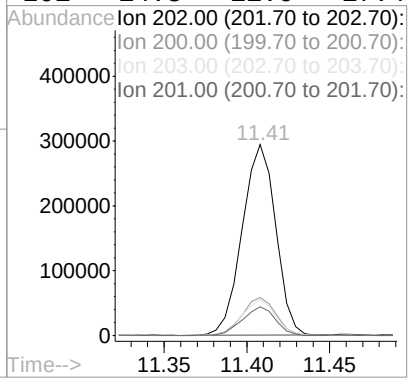


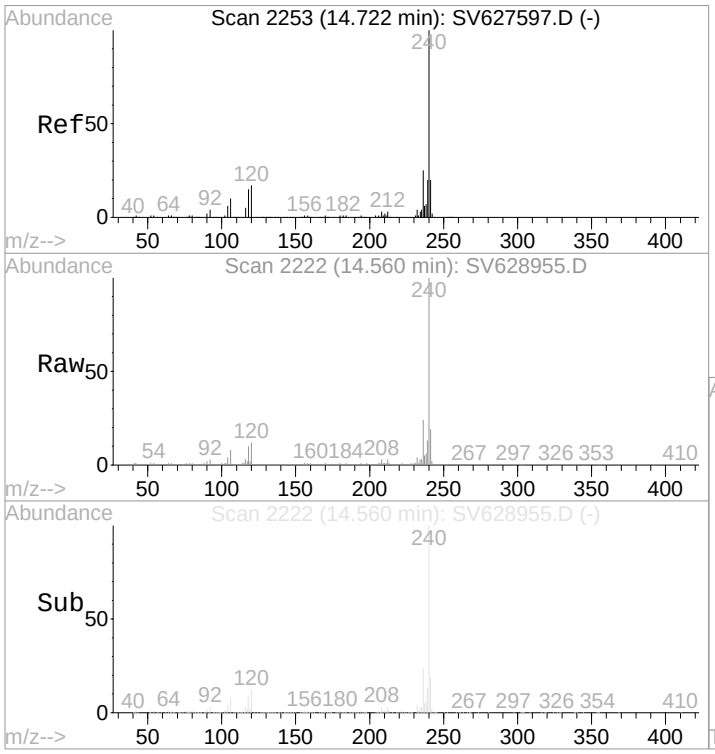


#78
Fluoranthene
Concen: 22.07 ug/mL
RT: 11.41 min Scan# 1632
Delta R.T. -0.17 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:202 Resp: 4137630

Ion	Ratio	Lower	Upper
202	100		
200	20.0	15.8	23.6
203	18.5	14.1	21.1
201	14.8	11.6	17.4

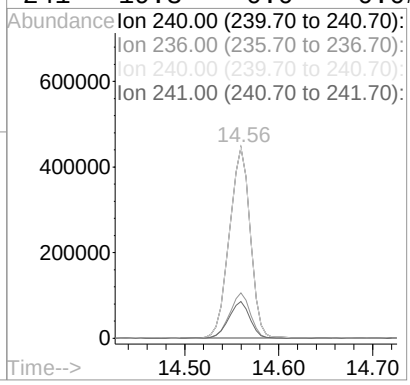


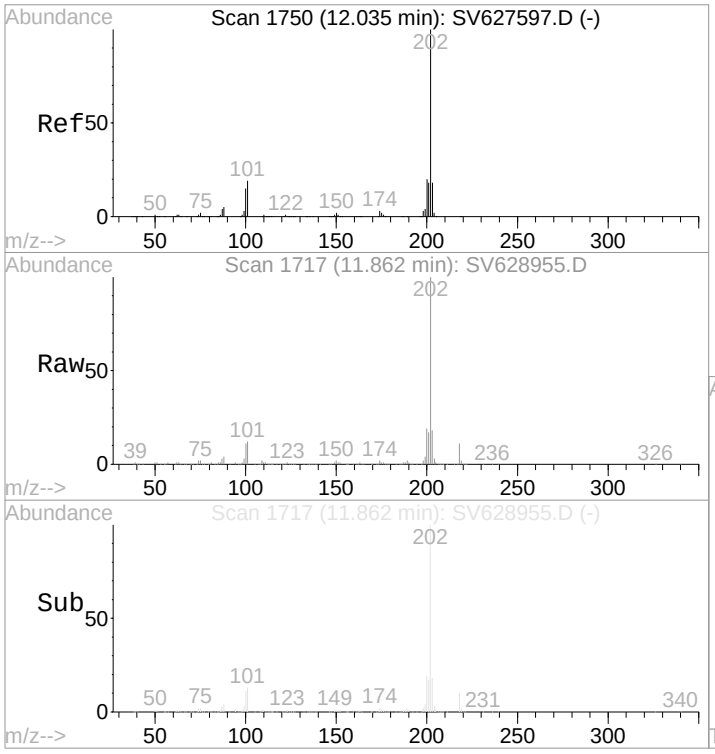


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.56 min Scan# 2222
Delta R.T. -0.16 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:240 Resp: 6861479

Ion	Ratio	Lower	Upper
240	100		
236	23.4	12.2	36.4
240	100.0	50.0	150.0
241	19.3	0.0	0.0#

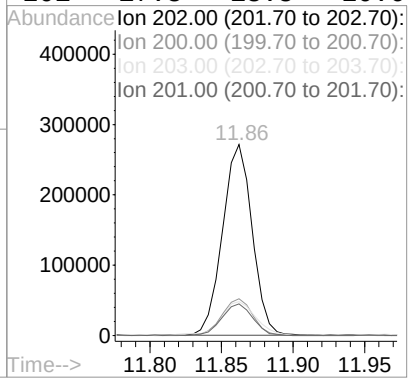


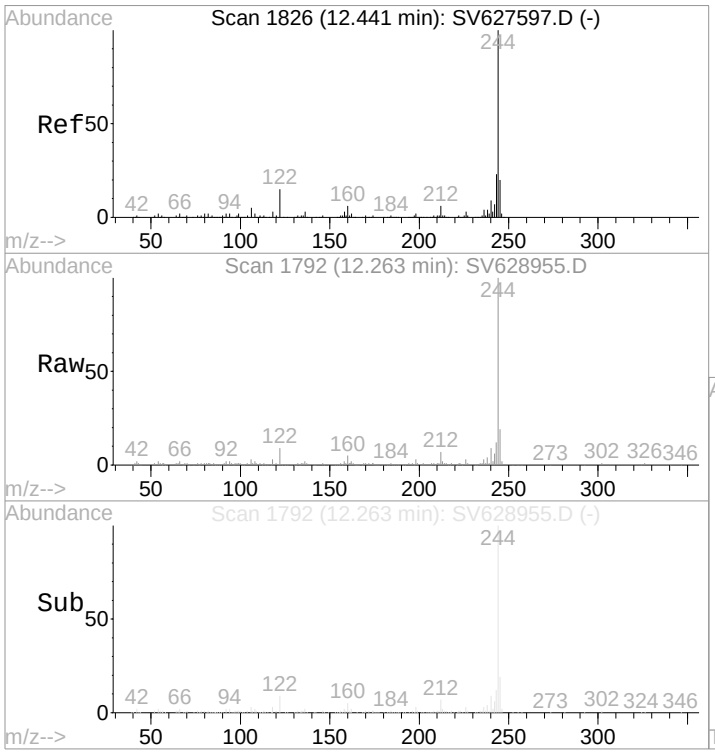


#81
Pyrene
Concen: 15.36 ug/mL
RT: 11.86 min Scan# 1717
Delta R.T. -0.17 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:202 Resp: 3896909

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.2	24.2
203	20.6	14.6	22.0
201	17.3	13.8	20.6

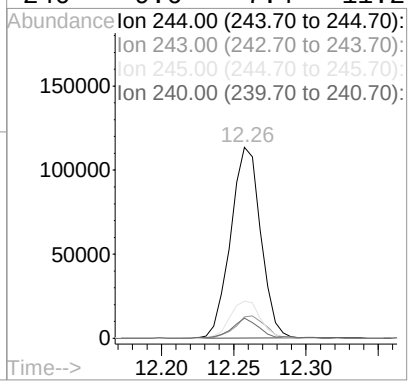


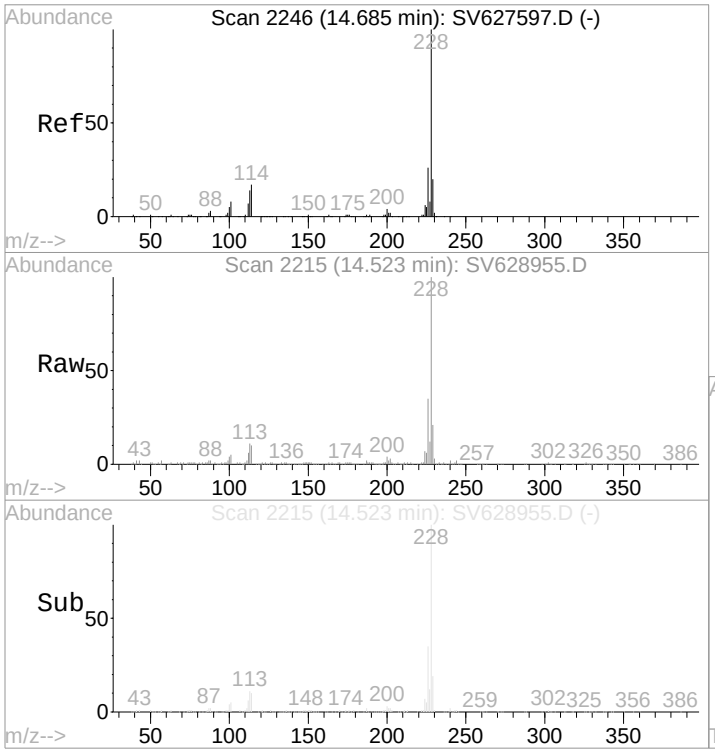


#82
Terphenyl-d14
Concen: 15.36 ug/mL
RT: 12.26 min Scan# 1792
Delta R.T. -0.18 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:244 Resp: 1631145

Ion	Ratio	Lower	Upper
244	100		
243	11.7	18.4	27.6#
245	19.8	15.4	23.0
240	9.6	7.4	11.2

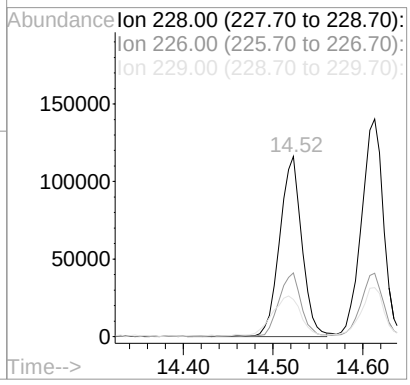


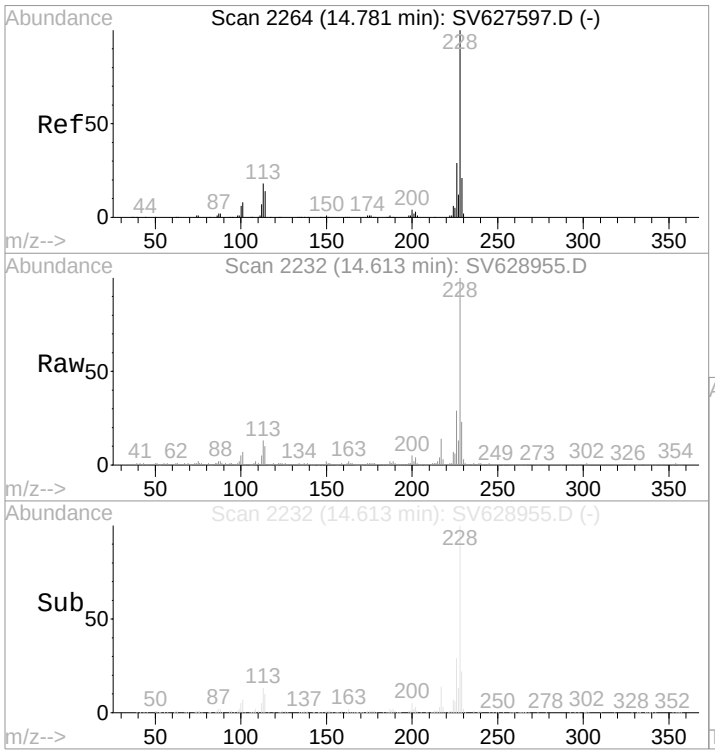


#85
Benz (a) anthracene
Concen: 8.67 ug/mL m
RT: 14.52 min Scan# 2215
Delta R.T. -0.16 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:228 Resp: 1995558

Ion	Ratio	Lower	Upper
228	100		
226	34.2	21.3	31.9#
229	26.1	16.4	24.6#

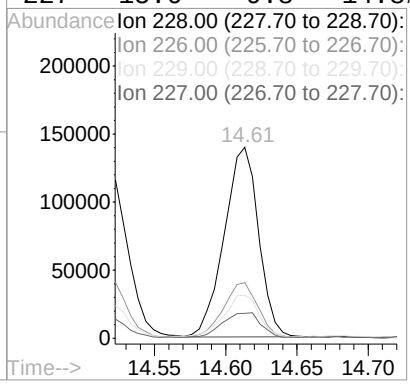


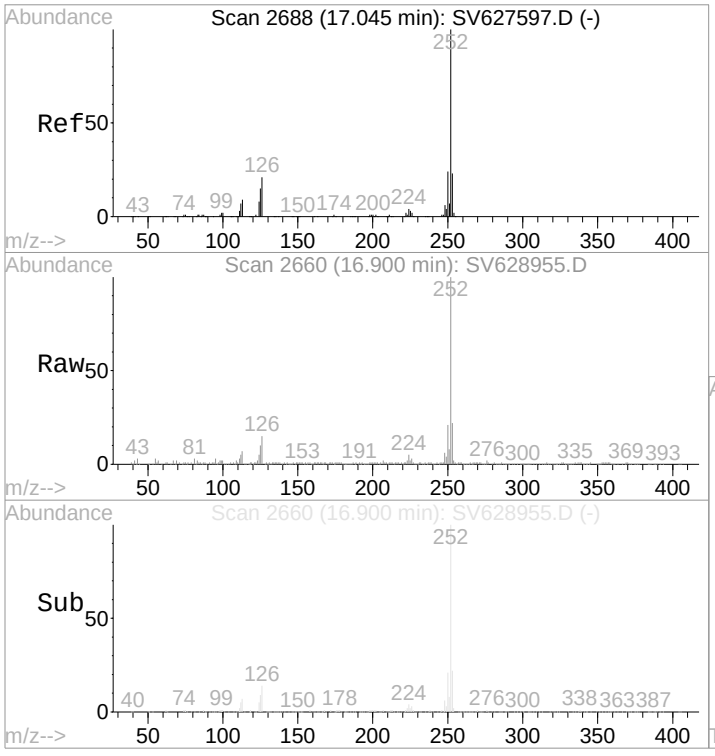


#87
Chrysene
Concen: 10.55 ug/mL
RT: 14.61 min Scan# 2232
Delta R.T. -0.16 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:228 Resp: 2339870

Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.6	35.4
229	22.5	15.5	23.3
227	15.6	9.8	14.8#

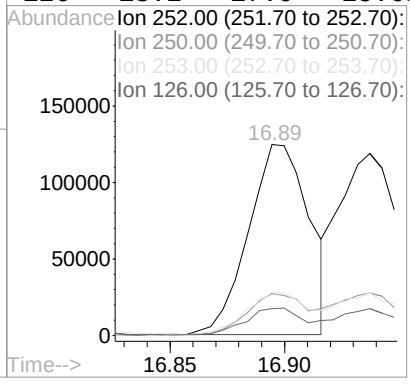


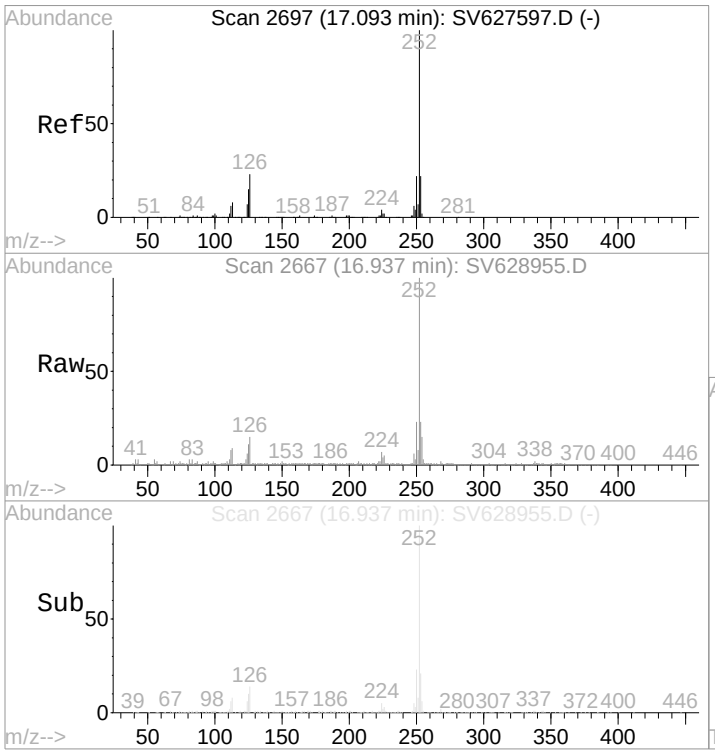


#89
Benzo(b)fluoranthene
Concen: 10.51 ug/mL
RT: 16.90 min Scan# 2660
Delta R.T. -0.14 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:252 Resp: 2194493

Ion	Ratio	Lower	Upper
252	100		
250	20.8	18.2	27.4
253	21.9	17.9	26.9
126	13.2	17.0	25.6#

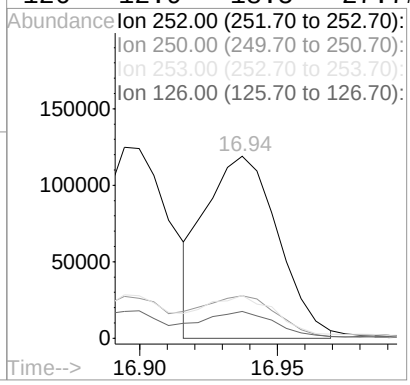


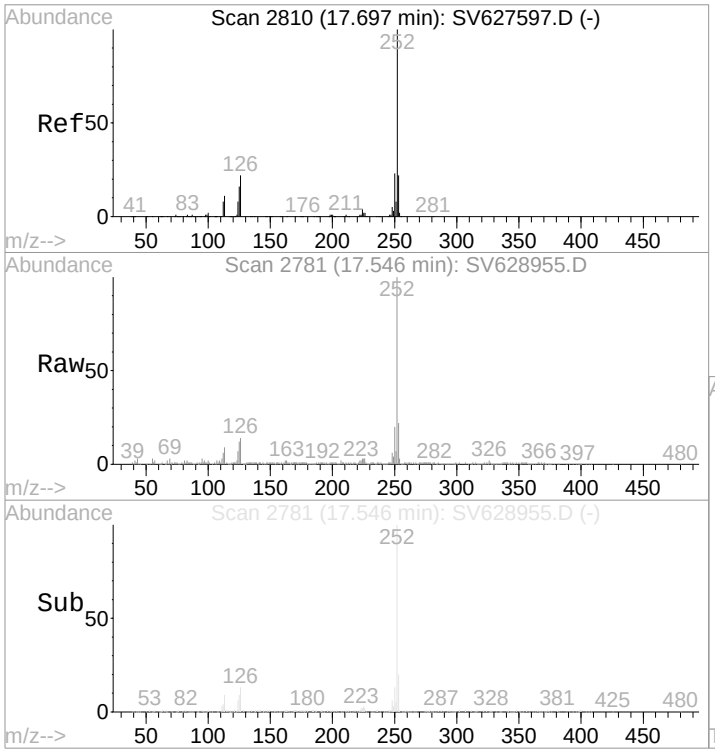


#90
Benzo(k)fluoranthene
Concen: 8.93 ug/mL m
RT: 16.94 min Scan# 2667
Delta R.T. -0.15 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:252 Resp: 2221488

Ion	Ratio	Lower	Upper
252	100		
250	20.4	17.2	25.8
253	21.7	18.1	27.1
126	12.9	18.5	27.7#

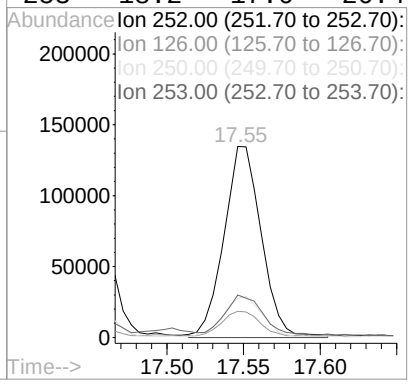


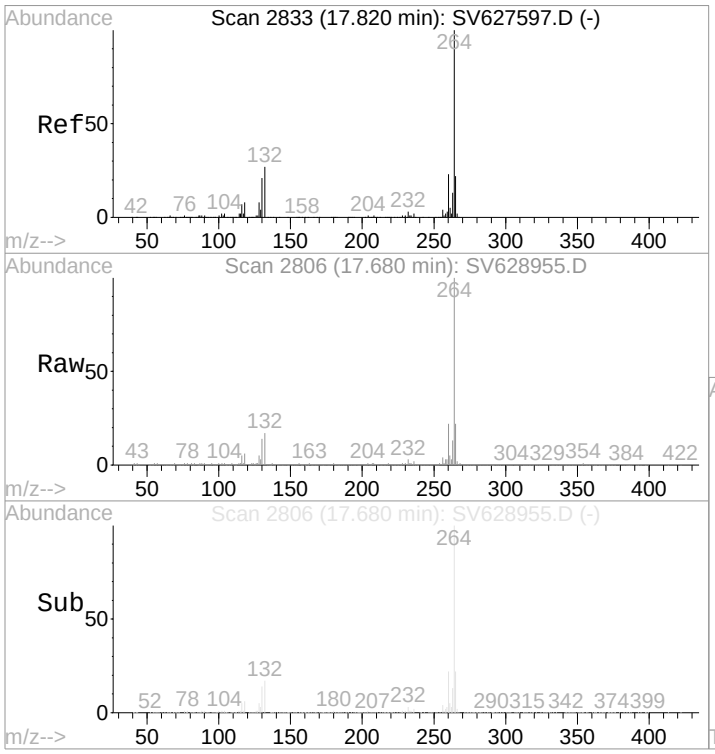


#91
Benzo(a)pyrene
Concen: 10.98 ug/mL m
RT: 17.55 min Scan# 2781
Delta R.T. -0.14 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:252 Resp: 2283554

Ion	Ratio	Lower	Upper
252	100		
126	9.8	18.4	27.6#
250	21.9	17.8	26.8
253	18.2	17.6	26.4

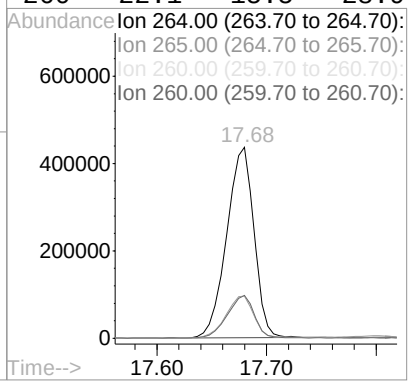


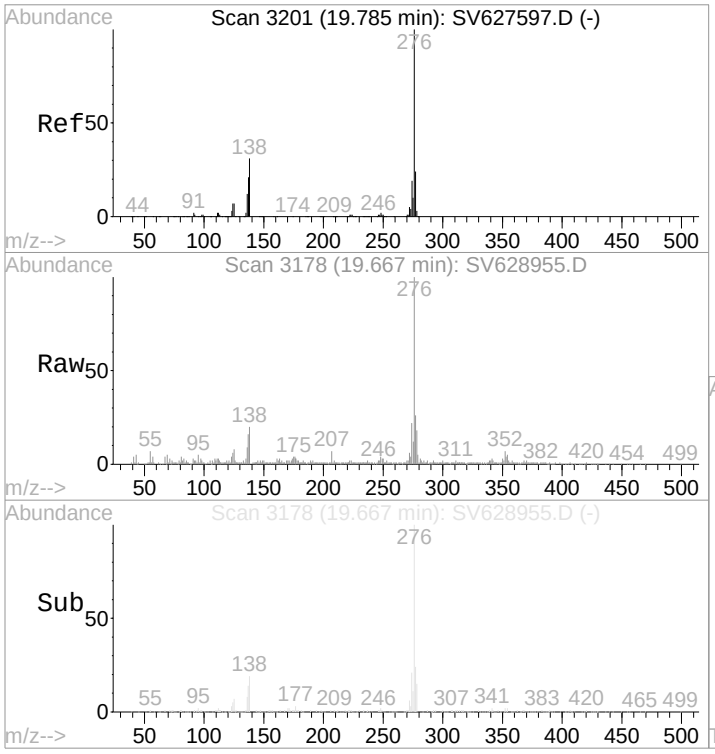


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.68 min Scan# 2806
Delta R.T. -0.14 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:264 Resp: 7566627

Ion	Ratio	Lower	Upper
264	100		
265	22.2	0.0	0.0#
260	22.1	17.8	26.6
260	22.1	15.5	28.9

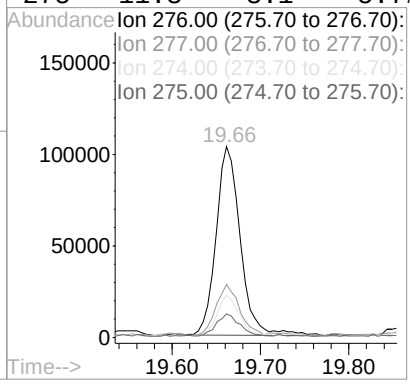


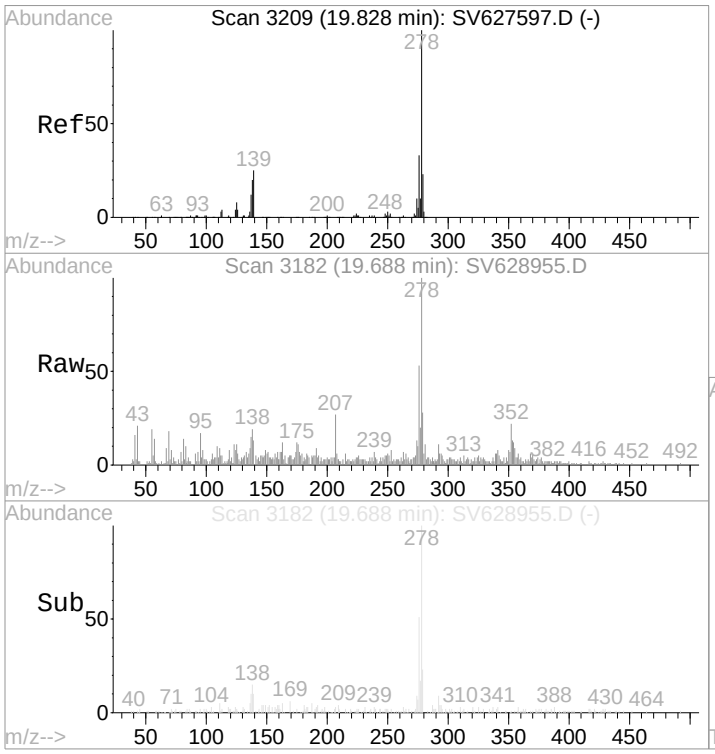


#93
Indeno(1,2,3-cd)pyrene
Concen: 8.48 ug/mL
RT: 19.66 min Scan# 3178
Delta R.T. -0.11 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:276 Resp: 1967342

Ion	Ratio	Lower	Upper
276	100		
277	27.0	12.9	19.3#
274	19.8	10.8	16.2#
275	11.3	3.1	5.7#

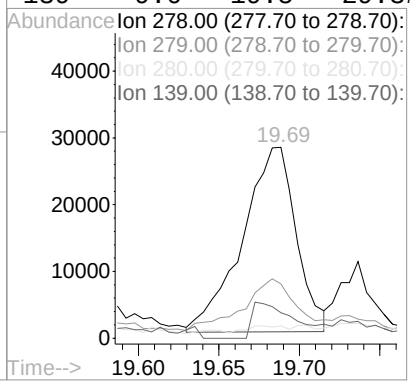


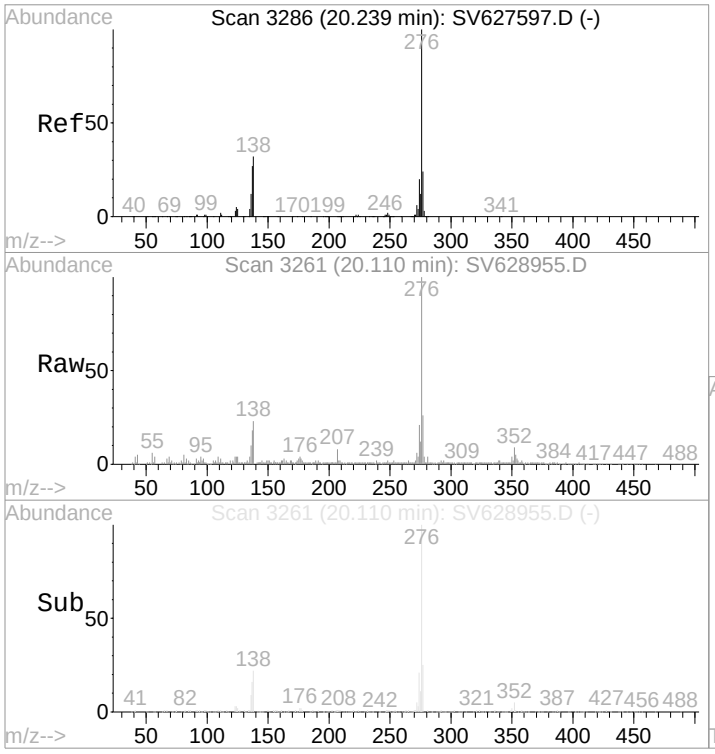


#94
Dibenz(a,h)anthracene
Concen: 3.86 ug/mL
RT: 19.69 min Scan# 3182
Delta R.T. -0.13 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:278 Resp: 640548

Ion	Ratio	Lower	Upper
278	100		
279	27.2	18.5	27.7
280	0.0	0.0	5.0
139	9.0	19.5	29.3#

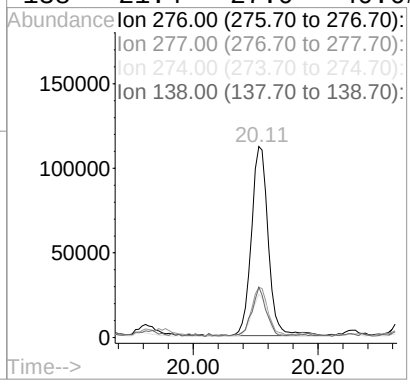




#95
Benzo(g,h,i)perylene
Concen: 9.58 ug/mL
RT: 20.11 min Scan# 3261
Delta R.T. -0.11 min
Lab File: SV628955.D
Acq: 11 Feb 2020 12:07 am

Tgt Ion:276 Resp: 2099145

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.1	28.7
274	20.3	0.0	42.2
138	21.4	27.0	40.6#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID: SV628958.D

Sampled: 02/04/20 15:00 Prepared: 02/10/20 07:21 Analyzed: 02/11/20 01:43

Solids: 74.61 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
92-52-4	1,1-Biphenyl	2	109	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2	218	U
120-82-1	1,2,4-Trichlorobenzene	2	109	U
95-50-1	1,2-Dichlorobenzene	2	109	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	109	U
541-73-1	1,3-Dichlorobenzene	2	109	U
106-46-7	1,4-Dichlorobenzene	2	109	U
58-90-2	2,3,4,6-Tetrachlorophenol	2	218	U
95-95-4	2,4,5-Trichlorophenol	2	109	U
88-06-2	2,4,6-Trichlorophenol	2	109	U
120-83-2	2,4-Dichlorophenol	2	109	U
105-67-9	2,4-Dimethylphenol	2	109	U
51-28-5	2,4-Dinitrophenol	2	218	U
121-14-2	2,4-Dinitrotoluene	2	109	U
606-20-2	2,6-Dinitrotoluene	2	109	U
91-58-7	2-Chloronaphthalene	2	109	U
95-57-8	2-Chlorophenol	2	109	U
91-57-6	2-Methylnaphthalene	2	109	U
95-48-7	2-Methylphenol	2	109	U
88-74-4	2-Nitroaniline	2	218	U
88-75-5	2-Nitrophenol	2	109	U
65794-96-9	3- & 4-Methylphenols	2	109	U
91-94-1	3,3-Dichlorobenzidine	2	109	U
99-09-2	3-Nitroaniline	2	218	U
534-52-1	4,6-Dinitro-2-methylphenol	2	218	U
101-55-3	4-Bromophenyl phenyl ether	2	109	U
59-50-7	4-Chloro-3-methylphenol	2	109	U
106-47-8	4-Chloroaniline	2	109	U
7005-72-3	4-Chlorophenyl phenyl ether	2	109	U
100-01-6	4-Nitroaniline	2	218	U
100-02-7	4-Nitrophenol	2	218	U
83-32-9	Acenaphthene	2	109	U
208-96-8	Acenaphthylene	2	109	U
98-86-2	Acetophenone	2	109	U
62-53-3	Aniline	2	437	U
120-12-7	Anthracene	2	109	U
1912-24-9	Atrazine	2	109	U
100-52-7	Benzaldehyde	2	77.7	JD
92-87-5	Benzidine	2	437	U
56-55-3	Benzo(a)anthracene	2	99.5	JD

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID: SV628958.D

Sampled: 02/04/20 15:00 Prepared: 02/10/20 07:21 Analyzed: 02/11/20 01:43

Solids: 74.61 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BB00363 Sequence: Y0B1101 Calibration: YL90003 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
50-32-8	Benzo(a)pyrene	2	104	JD
205-99-2	Benzo(b)fluoranthene	2	101	JD
191-24-2	Benzo(g,h,i)perylene	2	98.7	JD
207-08-9	Benzo(k)fluoranthene	2	90.8	JD
65-85-0	Benzoic acid	2	109	U
100-51-6	Benzyl alcohol	2	109	U
85-68-7	Benzyl butyl phthalate	2	109	U
111-91-1	Bis(2-chloroethoxy)methane	2	109	U
111-44-4	Bis(2-chloroethyl)ether	2	109	U
108-60-1	Bis(2-chloroisopropyl)ether	2	109	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	109	U
105-60-2	Caprolactam	2	218	U
86-74-8	Carbazole	2	109	U
218-01-9	Chrysene	2	115	D
53-70-3	Dibenzo(a,h)anthracene	2	109	U
132-64-9	Dibenzofuran	2	109	U
84-66-2	Diethyl phthalate	2	109	U
131-11-3	Dimethyl phthalate	2	109	U
84-74-2	Di-n-butyl phthalate	2	109	U
117-84-0	Di-n-octyl phthalate	2	109	U
206-44-0	Fluoranthene	2	191	D
86-73-7	Fluorene	2	109	U
118-74-1	Hexachlorobenzene	2	109	U
87-68-3	Hexachlorobutadiene	2	109	U
77-47-4	Hexachlorocyclopentadiene	2	109	U
67-72-1	Hexachloroethane	2	109	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	88.2	JD
78-59-1	Isophorone	2	109	U
91-20-3	Naphthalene	2	109	U
98-95-3	Nitrobenzene	2	109	U
62-75-9	N-Nitrosodimethylamine	2	109	U
621-64-7	N-nitroso-di-n-propylamine	2	109	U
86-30-6	N-Nitrosodiphenylamine	2	109	U
87-86-5	Pentachlorophenol	2	109	U
85-01-8	Phenanthrene	2	114	D
108-95-2	Phenol	2	109	U
129-00-0	Pyrene	2	134	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2180	1010	46.3	20 - 108	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

SB-4 (13-15)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-07	File ID:	SV628958.D
Sampled:	02/04/20 15:00	Prepared:	02/10/20 07:21	Analyzed:	02/11/20 01:43
Solids:	74.61	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003
Instrument:	BNA#6				

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
SURR: Phenol-d5	2180	1160	52.9	23 - 114	
SURR: Nitrobenzene-d5	1090	626	57.4	22 - 108	
SURR: 2-Fluorobiphenyl	1090	661	60.6	21 - 113	
SURR: 2,4,6-Tribromophenol	2180	2210	101	19 - 110	
SURR: Terphenyl-d14	1090	784	71.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1083043	4.8	943755	4.8	
ISTD: Naphthalene-d8	4511614	5.75	4094325	5.74	
ISTD: Acenaphthene-d10	2868324	7.24	2468626	7.23	
ISTD: Phenanthrene-d10	5904338	9.17	5181551	9.17	
ISTD: Chrysene-d12	6676638	14.57	5930644	14.55	
ISTD: Perylene-d12	7222412	17.68	6994074	17.66	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628958.D Vial: 21
Acq On : 11 Feb 2020 1:43 am Operator: OW
Sample : 20B0093-07 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:55 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

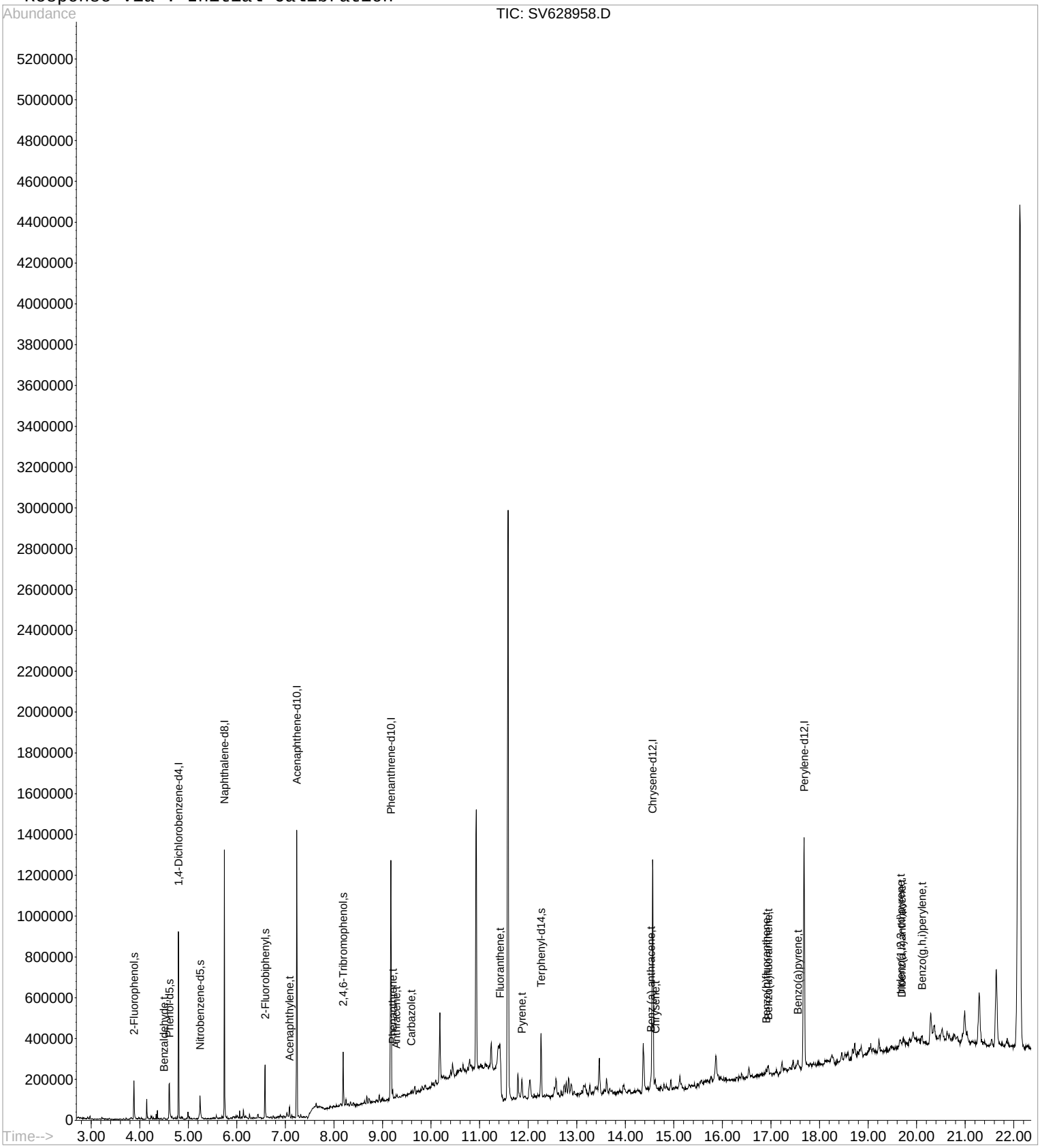
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	1083043	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.75	136	4511614	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2868324	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	5904338	40.00	ug/mL	-0.16
80) Chrysene-d12	14.57	240	6676638	40.00	ug/mL	-0.15
92) Perylene-d12	17.68	264	7222412	40.00	ug/mL	-0.14
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	458169	11.58	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 15.44%			
5) Phenol-d5	4.61	99	661022	13.23	ug/mL	-0.05
Spiked Amount 75.000	Range 10 - 100		Recovery = 17.64%			
22) Nitrobenzene-d5	5.24	82	284804	7.17	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 14.34%#			
45) 2-Fluorobiphenyl	6.58	172	749887	7.57	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 15.14%#			
67) 2,4,6-Tribromophenol	8.19	330	379174	25.35	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 33.80%#			
82) Terphenyl-d14	12.27	244	1460899	8.98	ug/mL	-0.17
Spiked Amount 50.000	Range 35 - 127		Recovery = 17.96%#			
Target Compounds						Qvalue
6) Benzaldehyde	4.50	105	25380	0.89	ug/mL	91
50) Acenaphthylene	7.09	152	55780	0.37	ug/mL#	62
73) Phenanthrene	9.21	178	207077	1.31	ug/mL#	92
74) Anthracene	9.28	178	62684	0.38	ug/mL#	64
75) Carbazole	9.59	167	39069	0.23	ug/mL#	96
78) Fluoranthene	11.42	202	409073	2.19	ug/mL#	94
81) Pyrene	11.87	202	379260	1.54	ug/mL	97
85) Benz (a) anthracene	14.52	228	255288m	1.14	ug/mL	
87) Chrysene	14.62	228	284622	1.32	ug/mL	98
89) Benzo(b)fluoranthene	16.90	252	235083	1.16	ug/mL#	90
90) Benzo(k)fluoranthene	16.94	252	251581m	1.04	ug/mL	
91) Benzo(a)pyrene	17.56	252	241592	1.19	ug/mL	93
93) Indeno(1,2,3-cd)pyrene	19.67	276	223971	1.01	ug/mL#	84
94) Dibenz(a,h)anthracene	19.69	278	82011	0.52	ug/mL#	54
95) Benzo(g,h,i)perylene	20.11	276	235275	1.13	ug/mL#	87

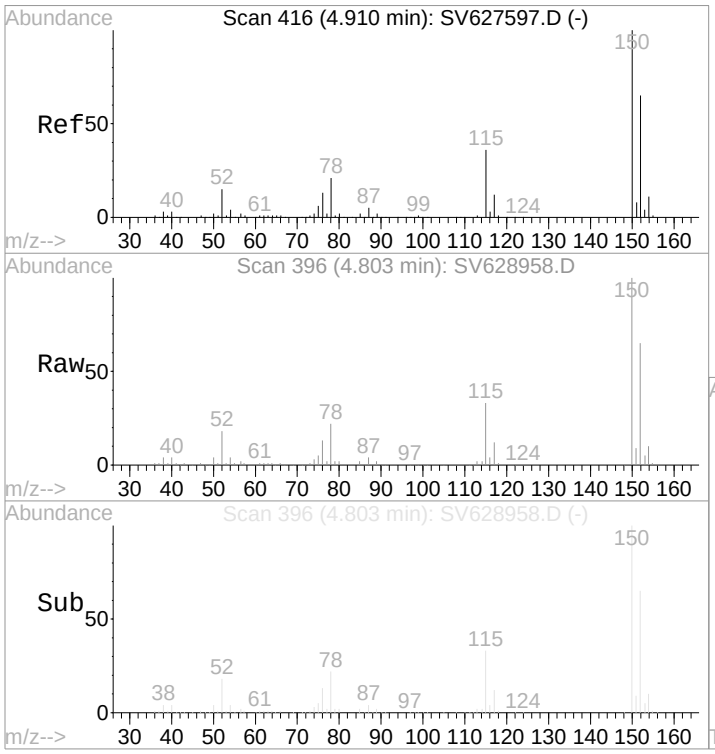
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628958.D Vial: 21
Acq On : 11 Feb 2020 1:43 am Operator: OW
Sample : 20B0093-07 Inst : BNA#6
Misc : QBSV6021020A 2X 8270 COMP Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:55 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

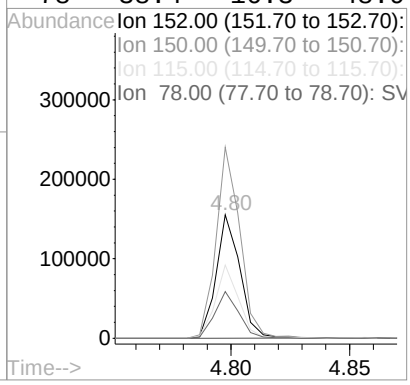


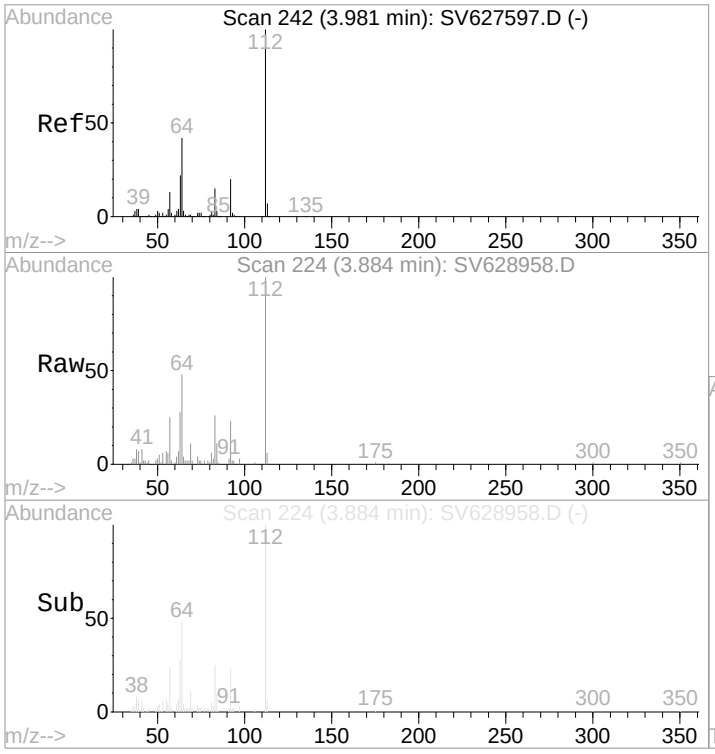


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 396
Delta R.T. -0.11 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:152 Resp: 1083043

Ion	Ratio	Lower	Upper
152	100		
150	154.6	84.8	254.4
115	58.2	27.5	82.4
78	38.4	16.3	48.9

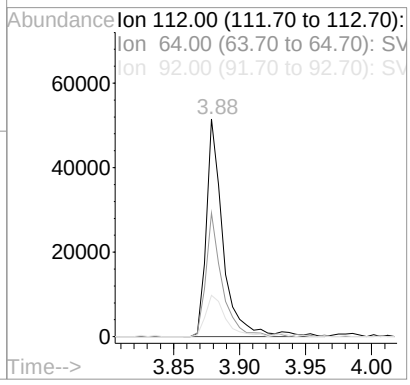


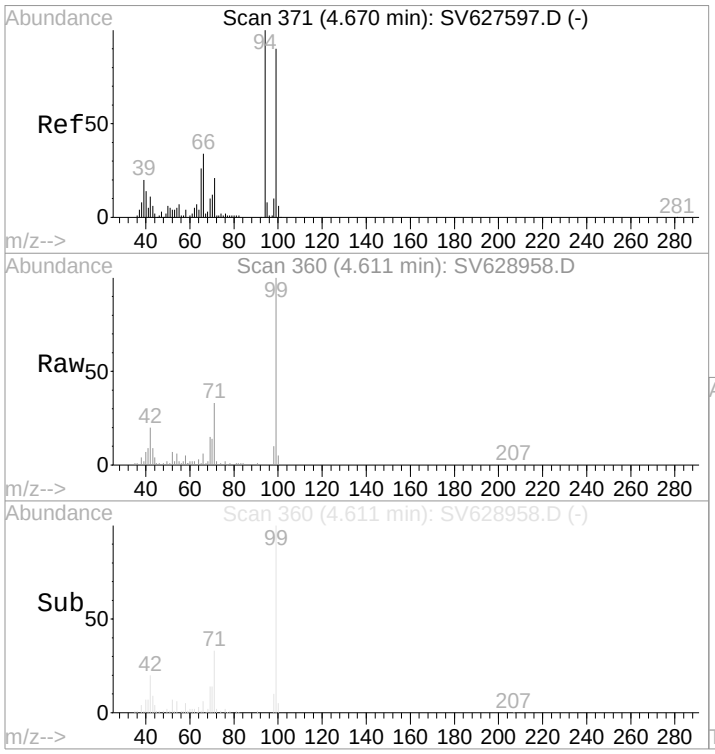


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.88 min Scan# 224
Delta R.T. -0.10 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:112 Resp: 458169

Ion	Ratio	Lower	Upper
112	100		
64	54.0	36.6	54.8
92	22.4	16.2	24.4

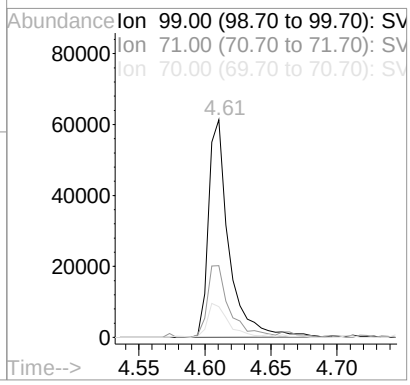


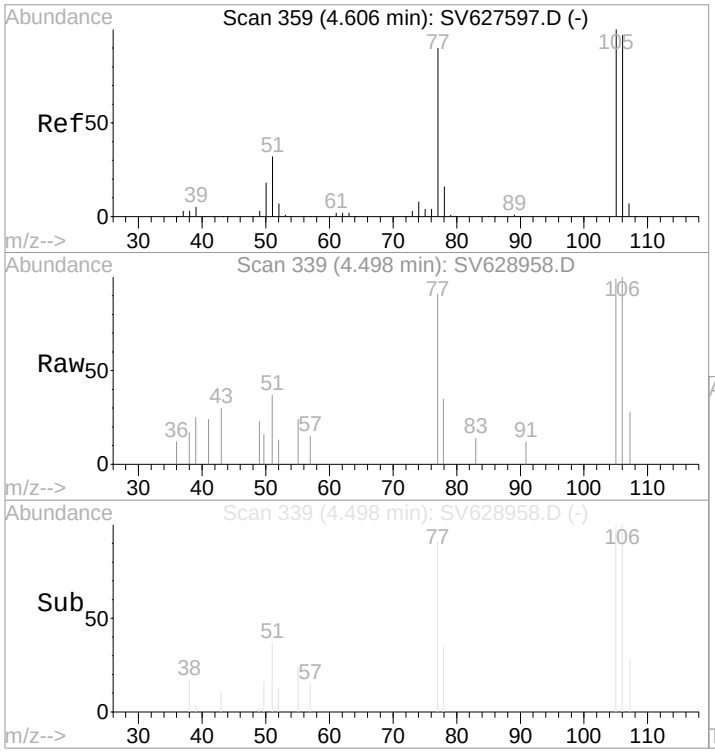


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.61 min Scan# 360
Delta R.T. -0.05 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion: 99 Resp: 661022

Ion	Ratio	Lower	Upper
99	100		
71	35.4	20.5	30.7#
70	17.0	10.3	15.5#

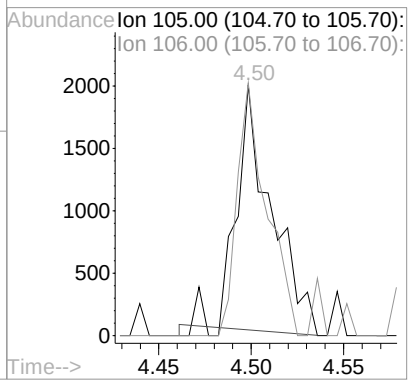


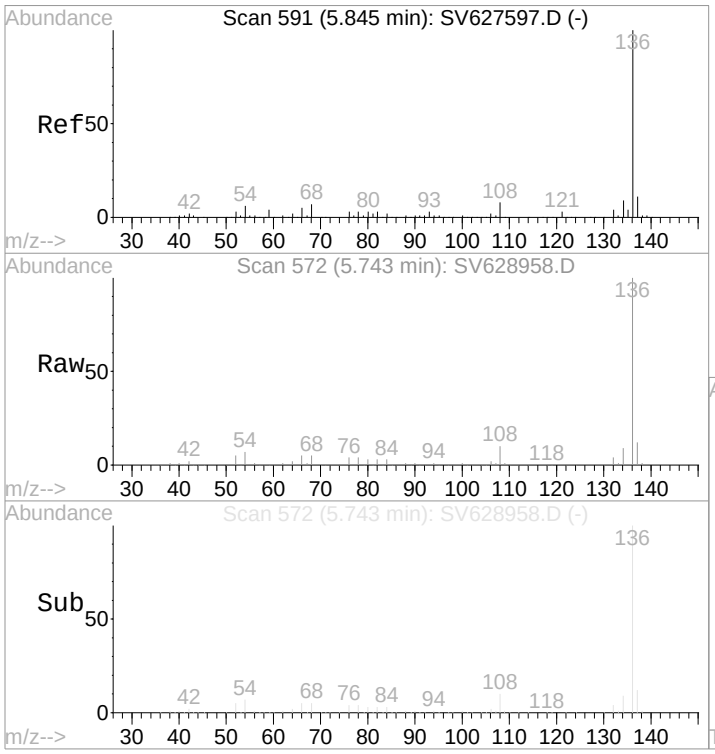


#6
Benzaldehyde
Concen: 0.89 ug/mL
RT: 4.50 min Scan# 339
Delta R.T. -0.11 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:105 Resp: 25380

Ion	Ratio	Lower	Upper
105	100		
106	89.2	78.1	117.1

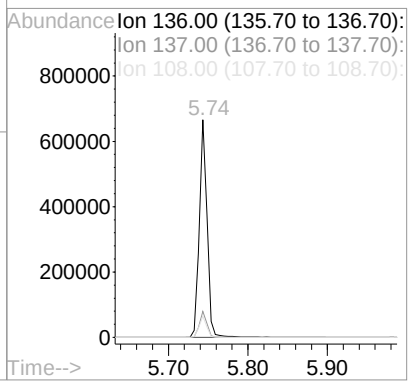


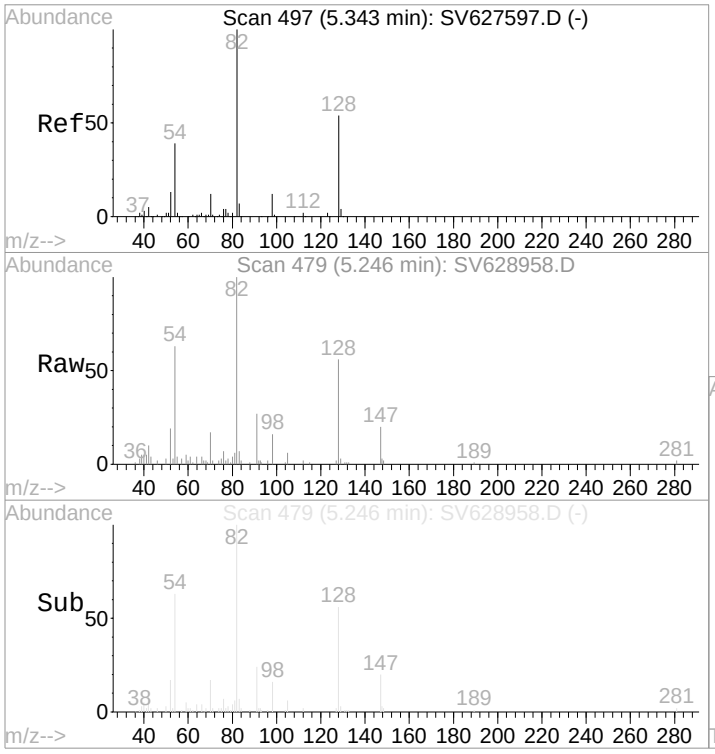


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.75 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:136 Resp: 4511614

Ion	Ratio	Lower	Upper
136	100		
137	11.5	5.7	17.0
108	9.5	4.2	12.4

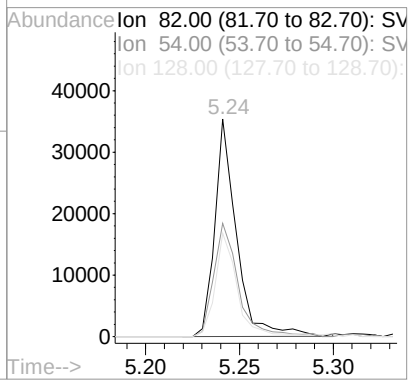


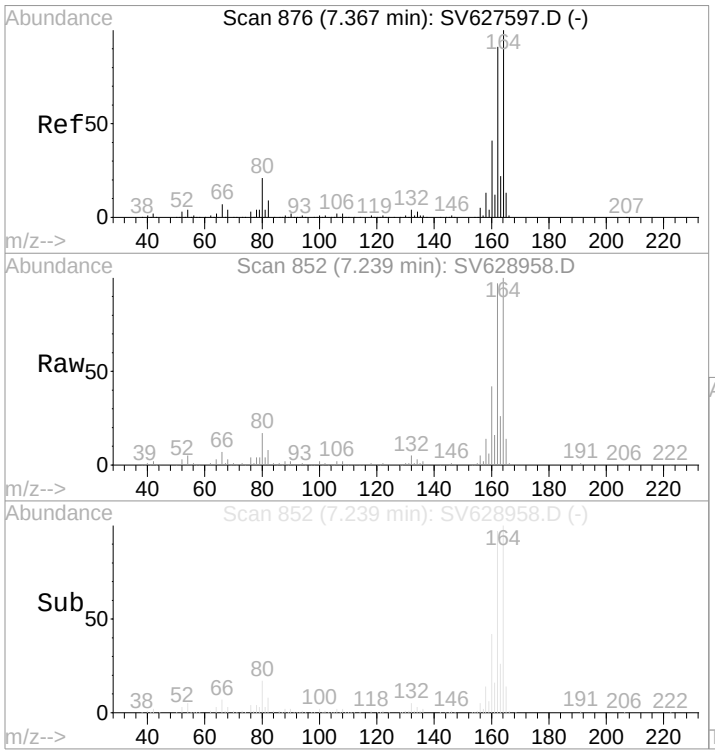


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.24 min Scan# 479
Delta R.T. -0.10 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion: 82 Resp: 284804

Ion	Ratio	Lower	Upper
82	100		
54	59.4	32.4	48.6#
128	48.3	41.3	61.9

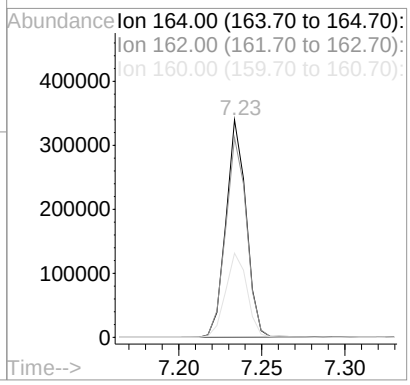


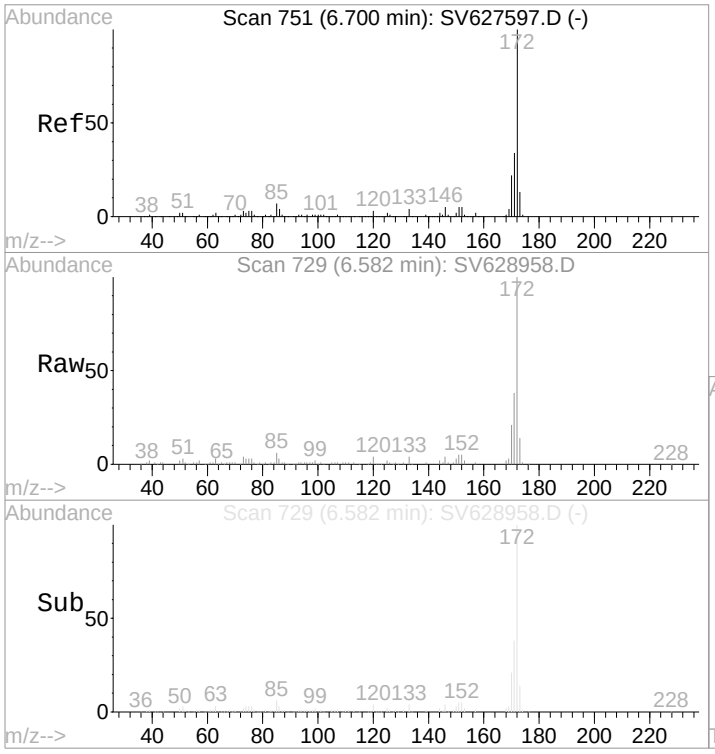


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.24 min Scan# 852
Delta R.T. -0.13 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:164 Resp: 2868324

Ion	Ratio	Lower	Upper
164	100		
162	95.4	46.5	139.3
160	41.2	20.9	62.7

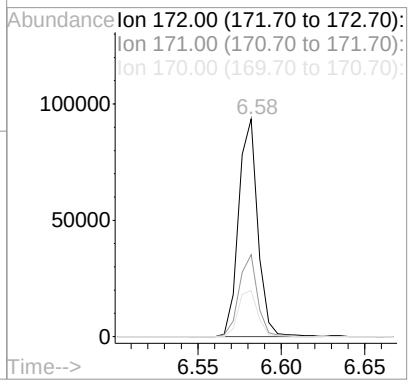


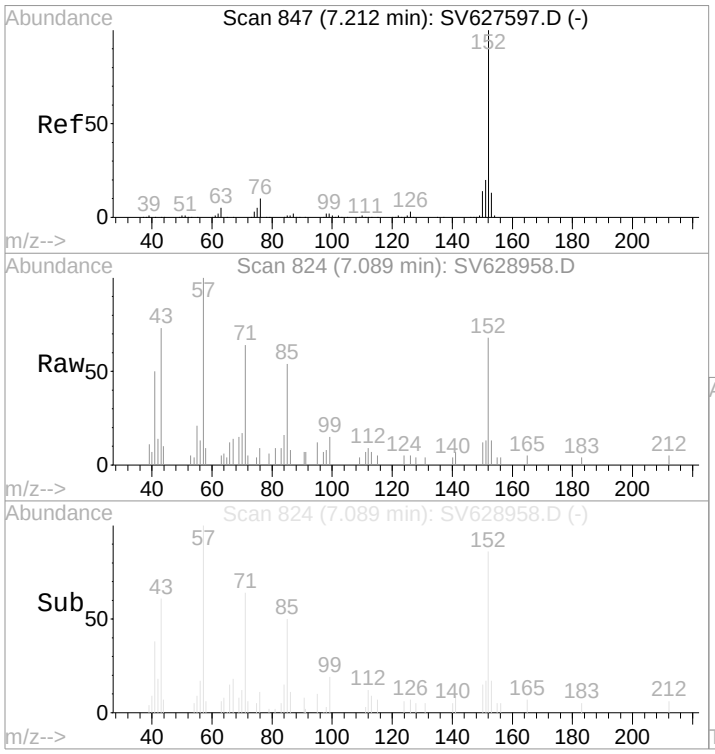


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 729
Delta R.T. -0.12 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:172 Resp: 749887

Ion	Ratio	Lower	Upper
172	100		
171	36.3	27.2	40.8
170	21.6	18.1	27.1

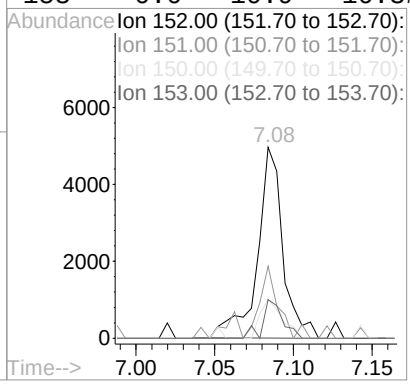


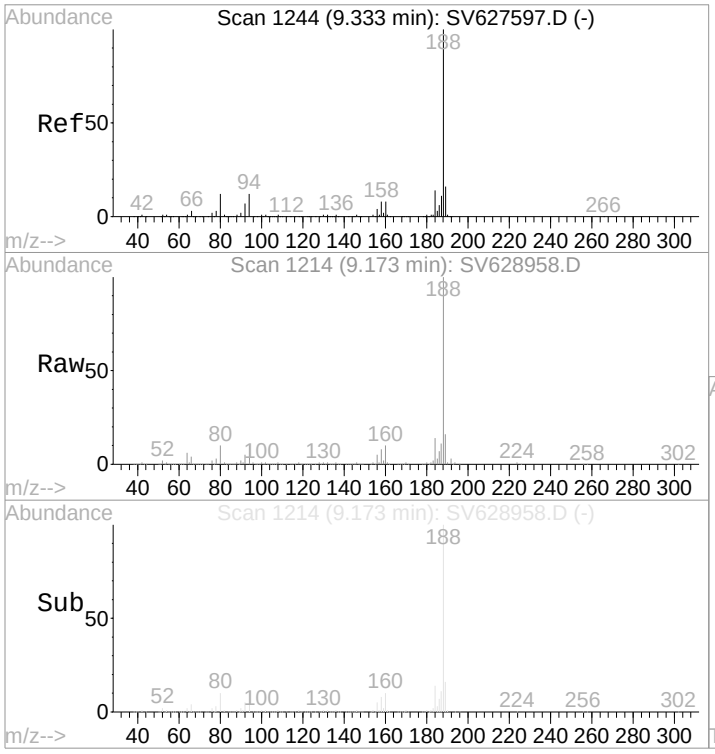


#50
Acenaphthylene
Concen: 0.37 ug/mL
RT: 7.09 min Scan# 824
Delta R.T. -0.12 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:152 Resp: 55780

Ion	Ratio	Lower	Upper
152	100		
151	0.0	15.7	23.5#
150	0.0	11.2	16.8#
153	0.0	10.9	16.3#

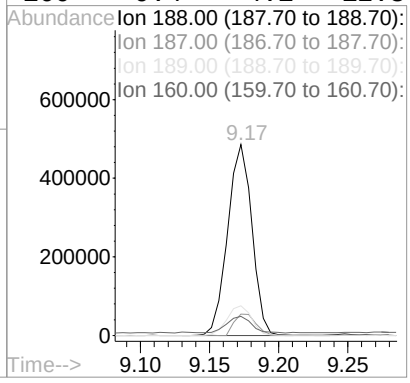


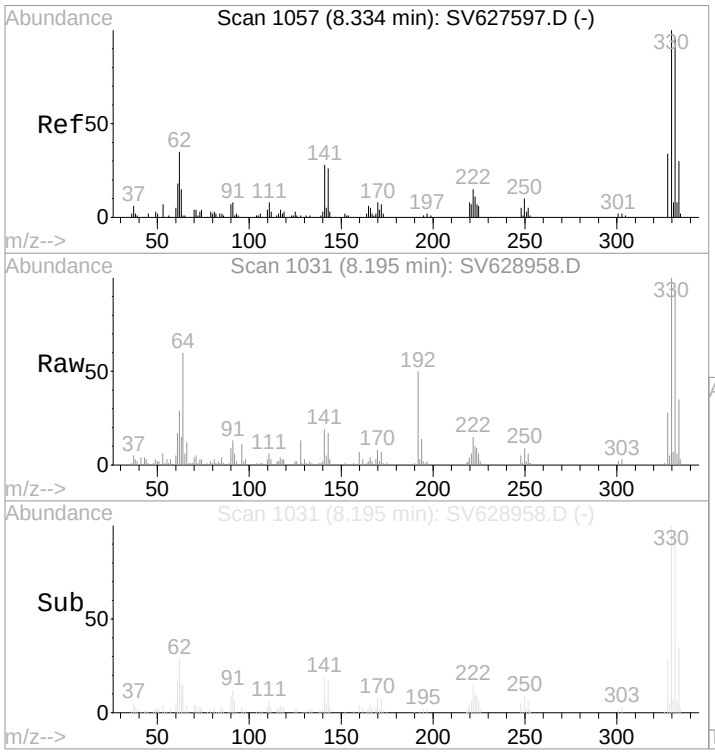


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.17 min Scan# 1214
Delta R.T. -0.16 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:188 Resp: 5904338

Ion	Ratio	Lower	Upper
188	100		
187	10.0	8.4	12.6
189	15.8	8.0	23.8
160	9.4	4.1	12.3

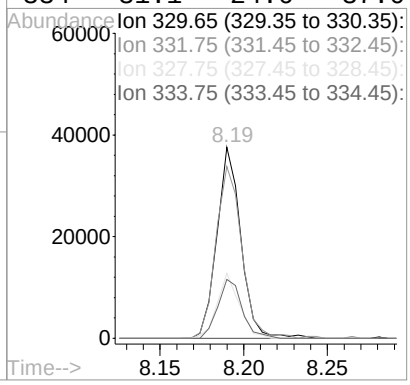


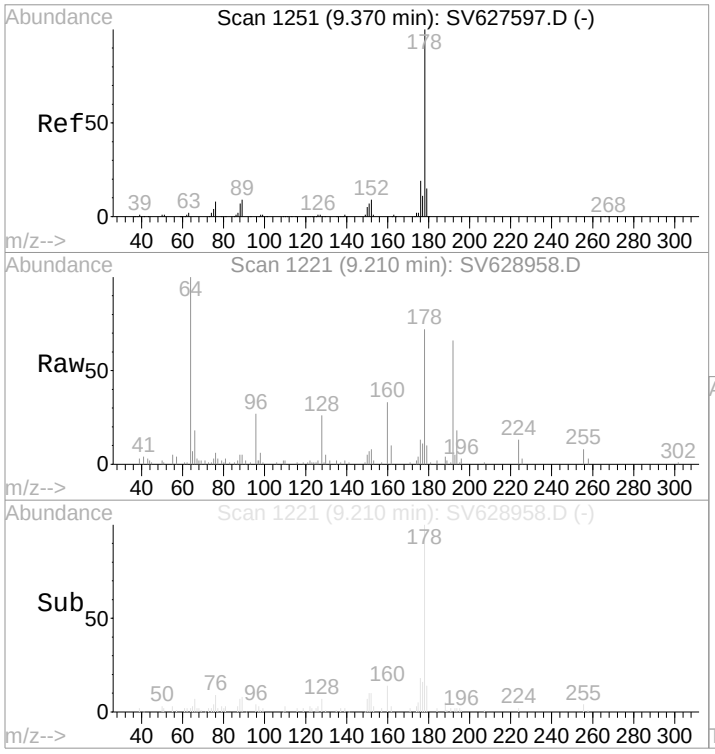


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.19 min Scan# 1031
Delta R.T. -0.14 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:330 Resp: 379174

Ion	Ratio	Lower	Upper
330	100		
332	96.6	74.2	111.2
328	31.3	28.5	42.7
334	31.1	24.6	37.0

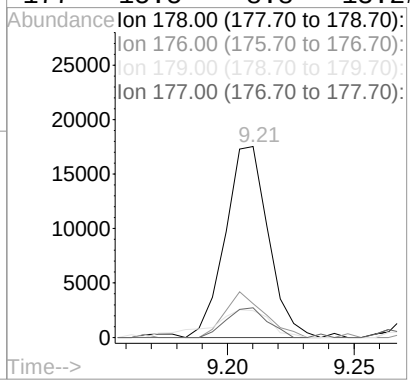


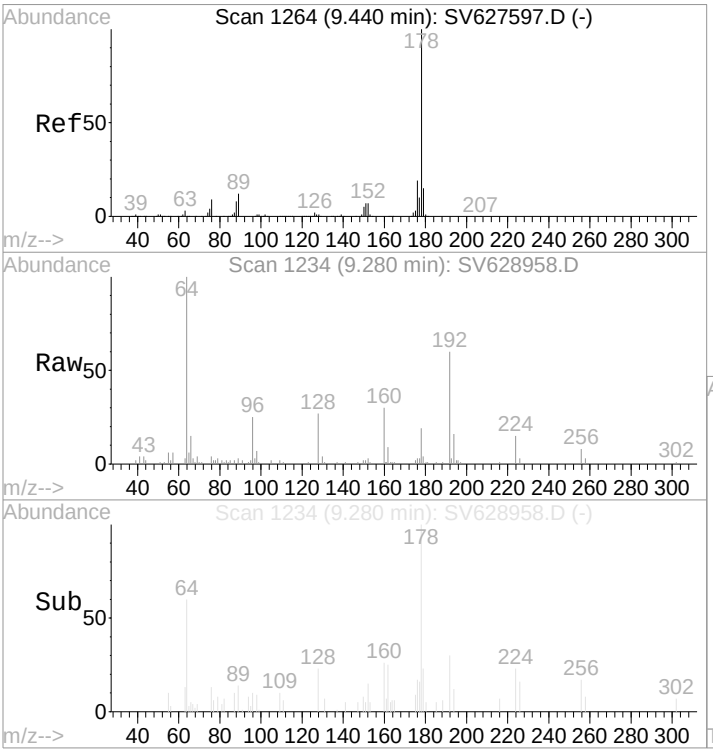


#73
Phenanthrene
Concen: 1.31 ug/mL
RT: 9.21 min Scan# 1221
Delta R.T. -0.16 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:178 Resp: 207077

Ion	Ratio	Lower	Upper
178	100		
176	21.1	15.2	22.8
179	19.6	12.5	18.7#
177	15.5	8.8	13.2#

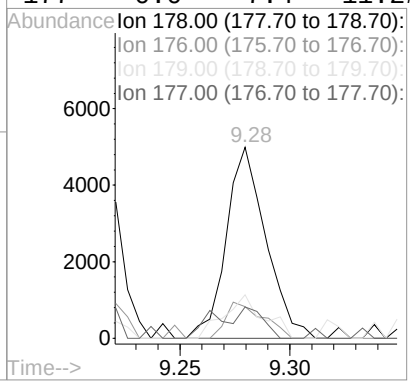


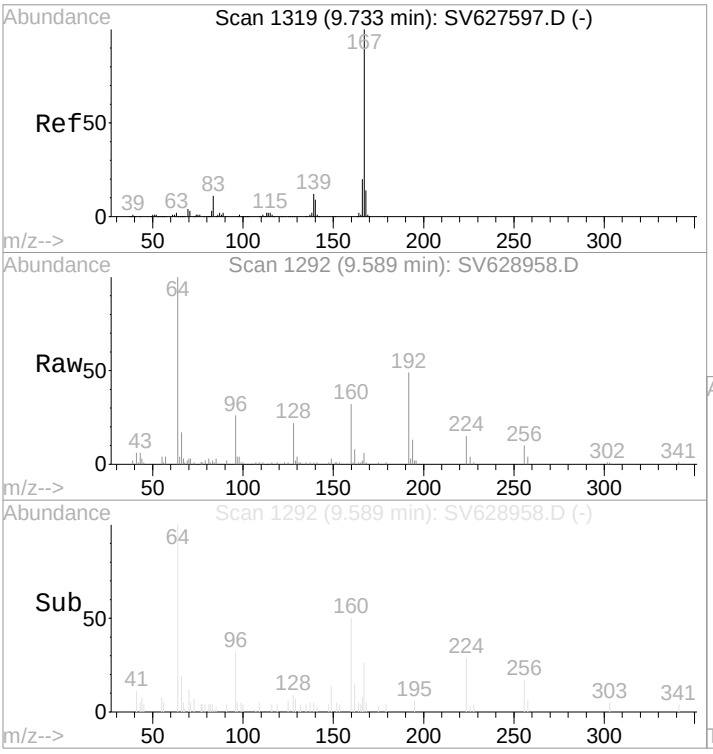


#74
Anthracene
Concen: 0.38 ug/mL
RT: 9.28 min Scan# 1234
Delta R.T. -0.16 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:178 Resp: 62684

Ion	Ratio	Lower	Upper
178	100		
176	0.0	14.5	21.7#
179	0.0	12.5	18.7#
177	0.0	7.4	11.2#

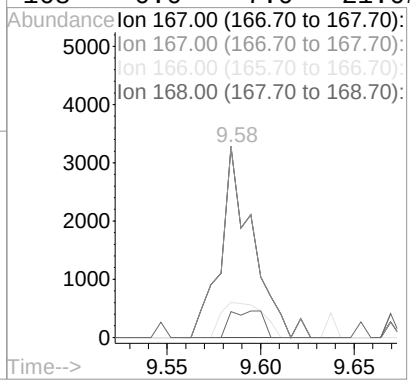


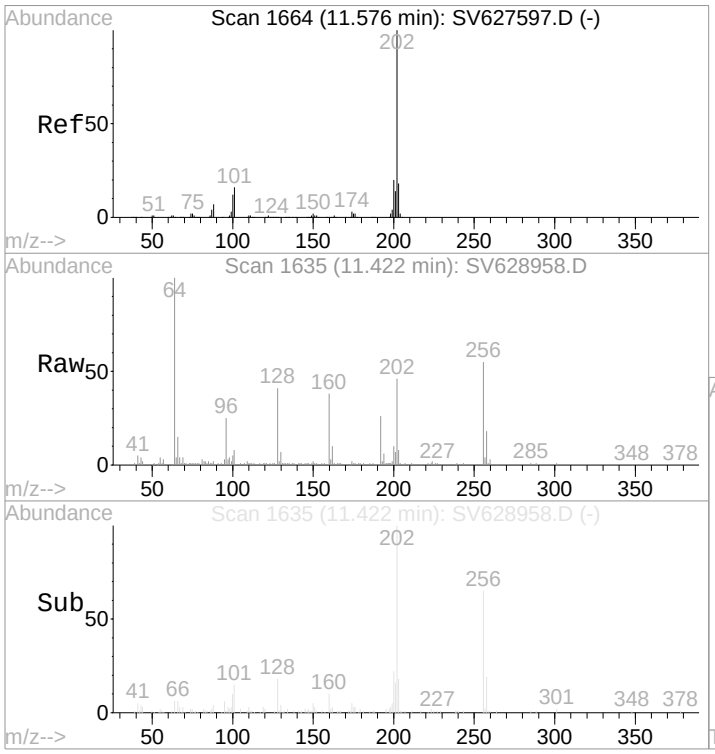


#75
Carbazole
Concen: 0.23 ug/mL
RT: 9.59 min Scan# 1292
Delta R.T. -0.14 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:167 Resp: 39069

Ion	Ratio	Lower	Upper
167	100		
167	100.0	80.0	120.0
166	0.0	0.0	0.0
168	0.0	7.0	21.0#

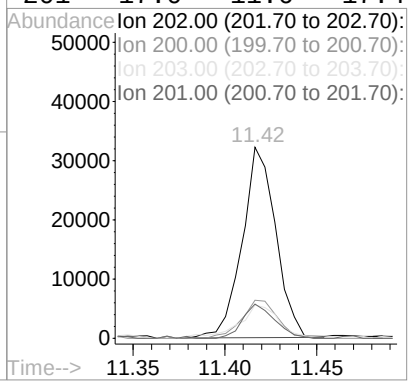


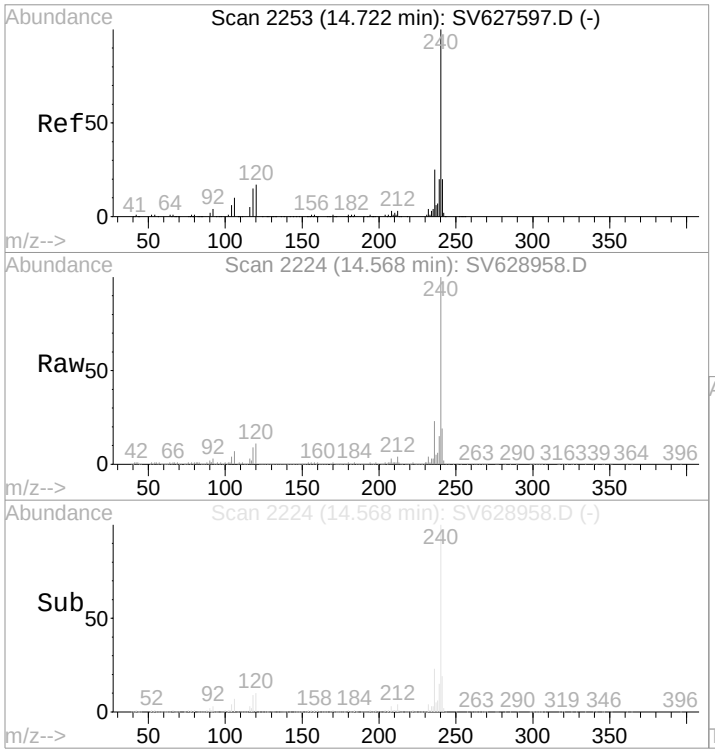


#78
Fluoranthene
Concen: 2.19 ug/mL
RT: 11.42 min Scan# 1635
Delta R.T. -0.16 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:202 Resp: 409073

Ion	Ratio	Lower	Upper
202	100		
200	21.2	15.8	23.6
203	21.3	14.1	21.1#
201	17.0	11.6	17.4

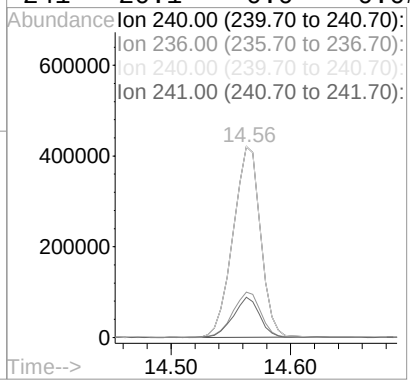


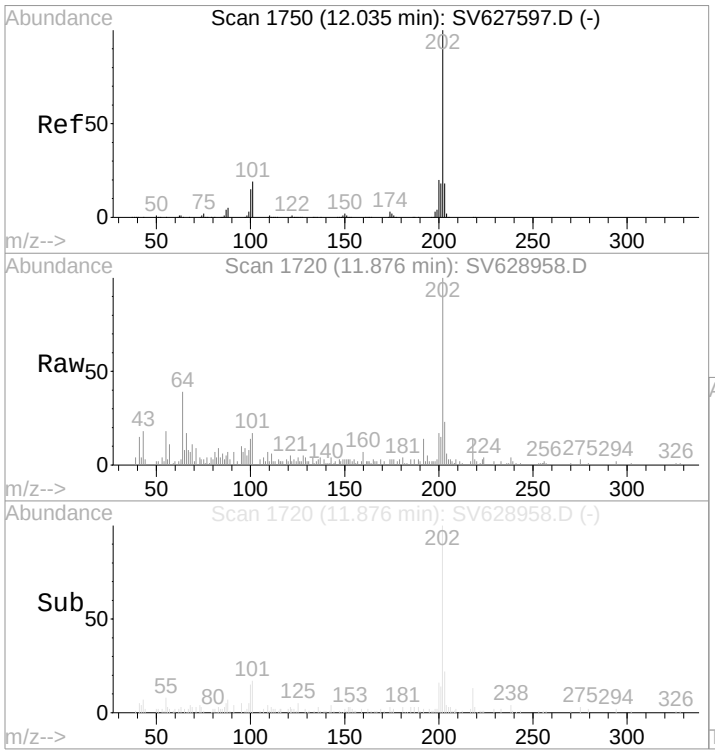


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.57 min Scan# 2224
Delta R.T. -0.15 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:240 Resp: 6676638

Ion	Ratio	Lower	Upper
240	100		
236	24.2	12.2	36.4
240	100.0	50.0	150.0
241	20.1	0.0	0.0#

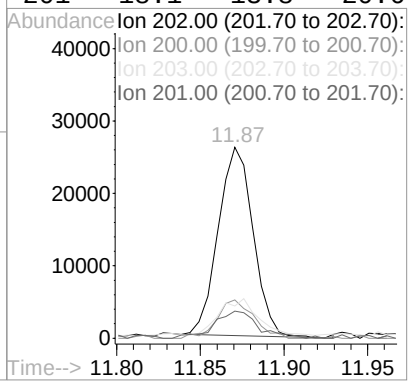


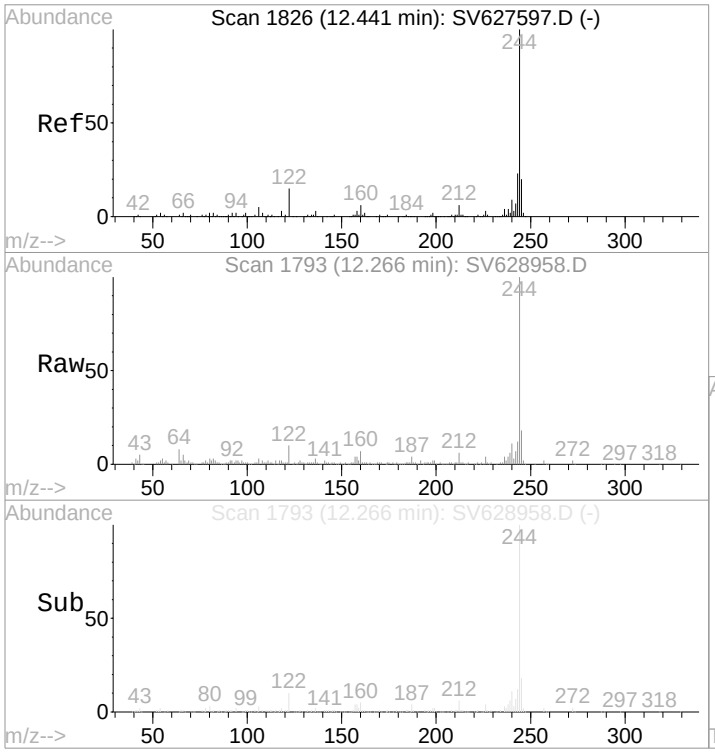


#81
Pyrene
Concen: 1.54 ug/mL
RT: 11.87 min Scan# 1720
Delta R.T. -0.16 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:202 Resp: 379260

Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.2	24.2
203	21.4	14.6	22.0
201	18.1	13.8	20.6

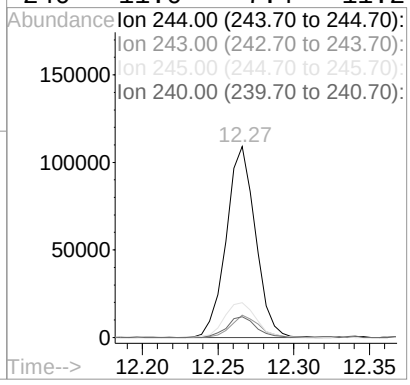


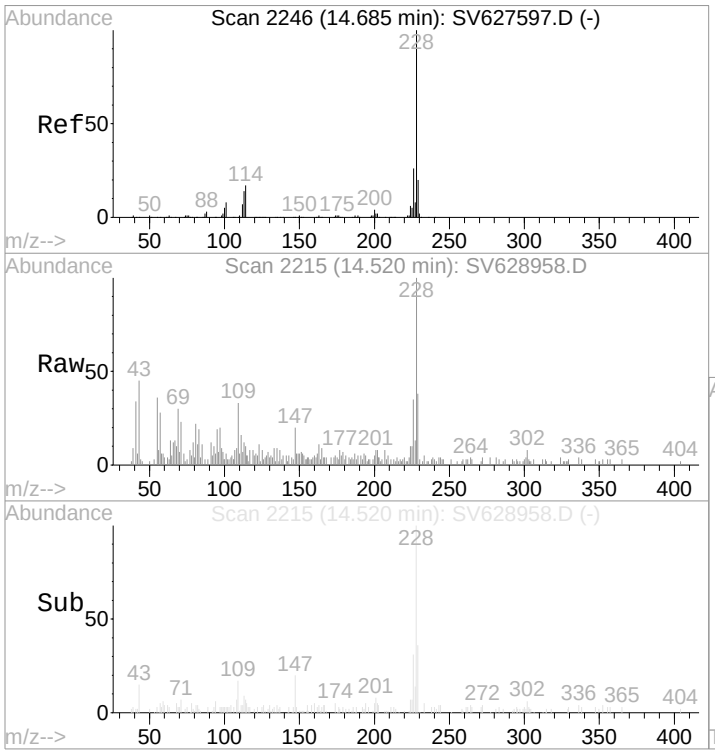


#82
Terphenyl-d14
Concen: 1.54 ug/mL
RT: 12.27 min Scan# 1793
Delta R.T. -0.17 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:244 Resp: 1460899

Ion	Ratio	Lower	Upper
244	100		
243	11.1	18.4	27.6#
245	20.1	15.4	23.0
240	11.0	7.4	11.2

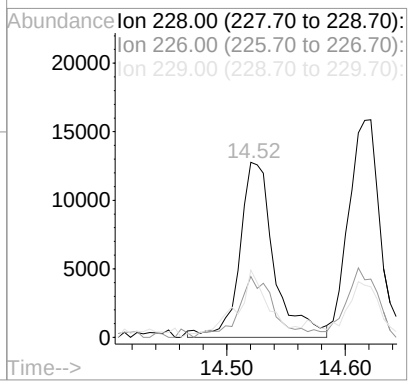


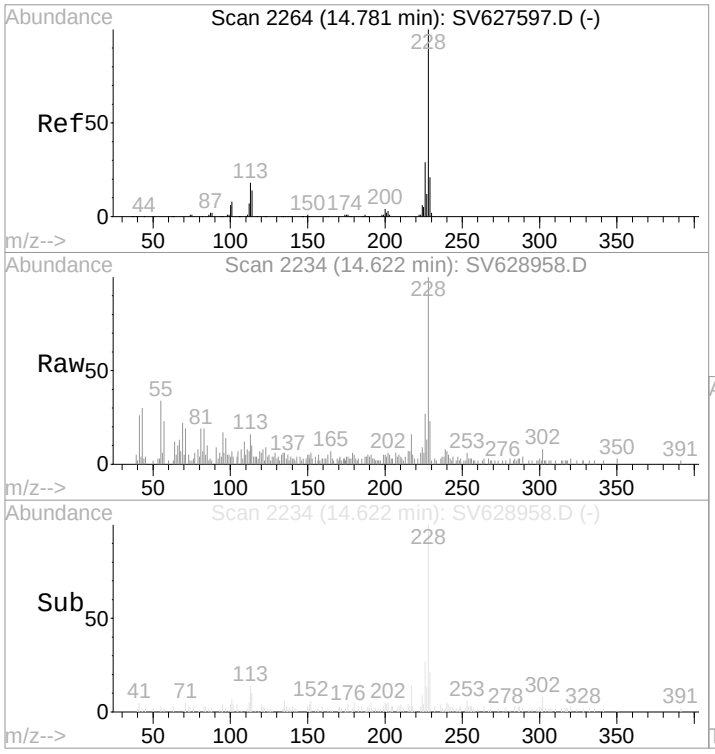


#85
Benz (a) anthracene
Concen: 1.14 ug/mL m
RT: 14.52 min Scan# 2215
Delta R.T. -0.16 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:228 Resp: 255288

Ion	Ratio	Lower	Upper
228	100		
226	30.5	21.3	31.9
229	23.5	16.4	24.6

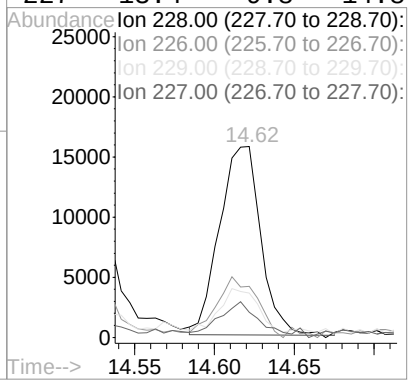


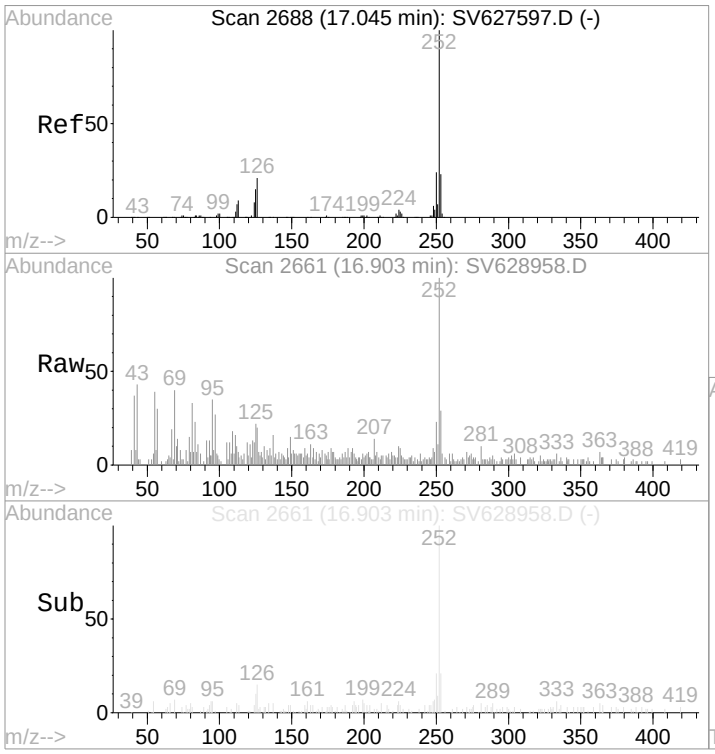


#87
Chrysene
Concen: 1.32 ug/mL
RT: 14.62 min Scan# 2234
Delta R.T. -0.15 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:228 Resp: 284622

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.6	35.4
229	18.8	15.5	23.3
227	13.4	9.8	14.8

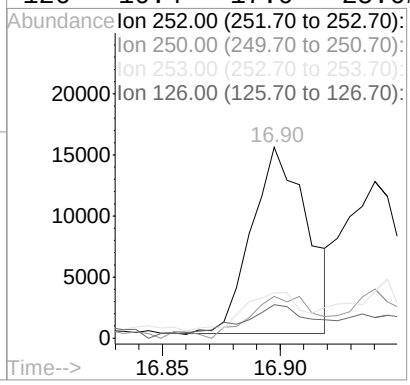


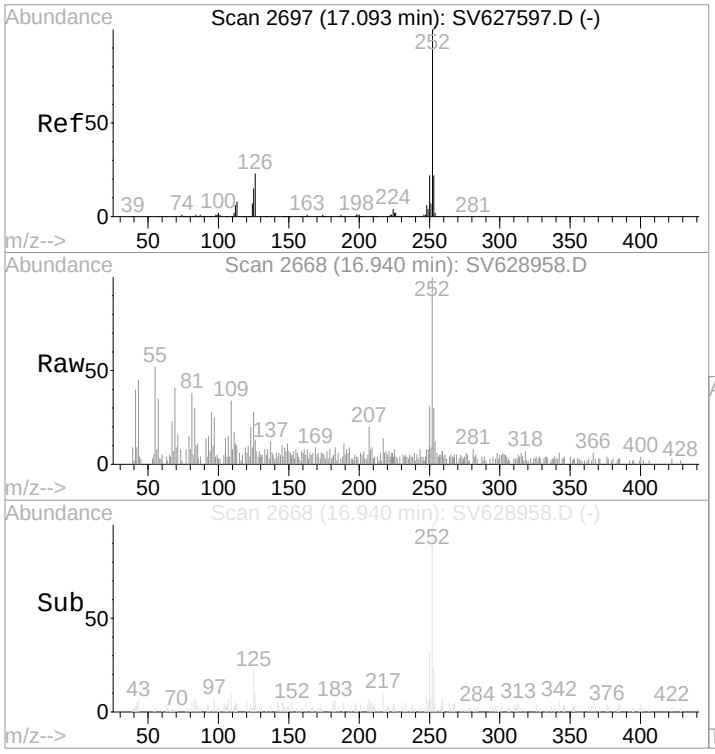


#89
Benzo(b)fluoranthene
Concen: 1.16 ug/mL
RT: 16.90 min Scan# 2661
Delta R.T. -0.14 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:252 Resp: 235083

Ion	Ratio	Lower	Upper
252	100		
250	24.5	18.2	27.4
253	20.9	17.9	26.9
126	10.4	17.0	25.6#

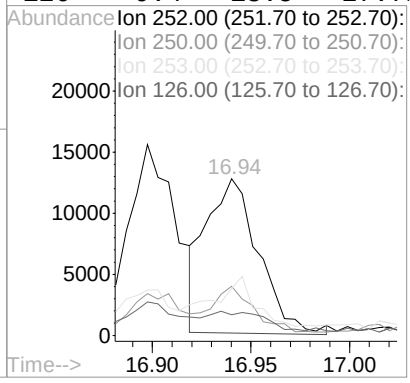


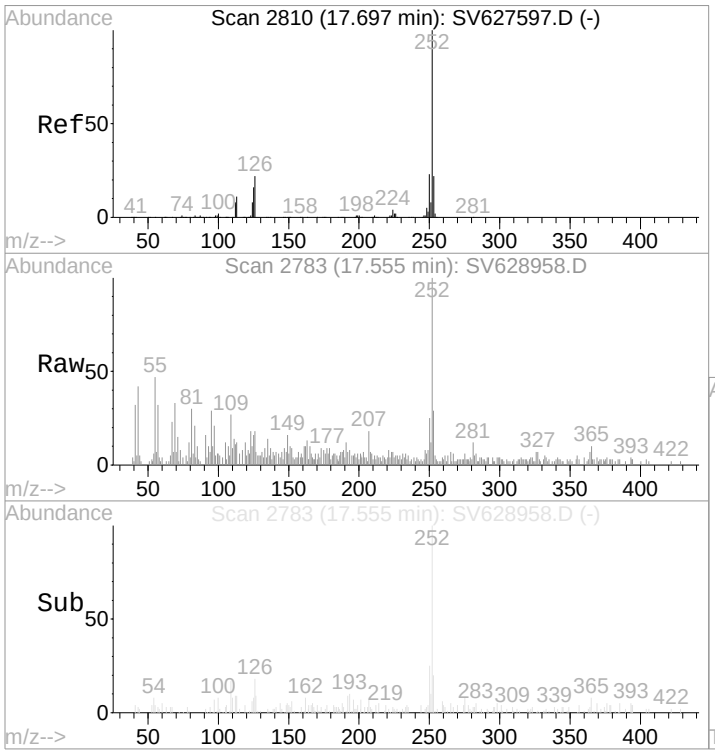


#90
Benzo(k)fluoranthene
Concen: 1.04 ug/mL m
RT: 16.94 min Scan# 2668
Delta R.T. -0.15 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:252 Resp: 251581

Ion	Ratio	Lower	Upper
252	100		
250	23.5	17.2	25.8
253	19.1	18.1	27.1
126	9.4	18.5	27.7#

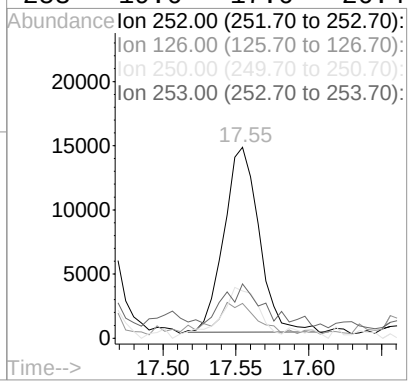


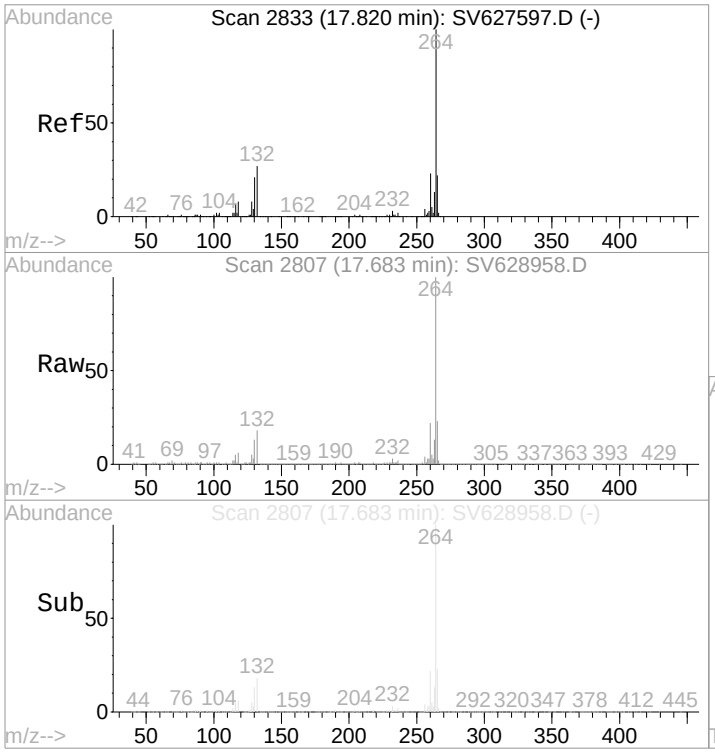


#91
Benzo(a)pyrene
Concen: 1.19 ug/mL
RT: 17.56 min Scan# 2783
Delta R.T. -0.13 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:252 Resp: 241592

Ion	Ratio	Lower	Upper
252	100		
126	19.3	18.4	27.6
250	26.6	17.8	26.8
253	19.6	17.6	26.4

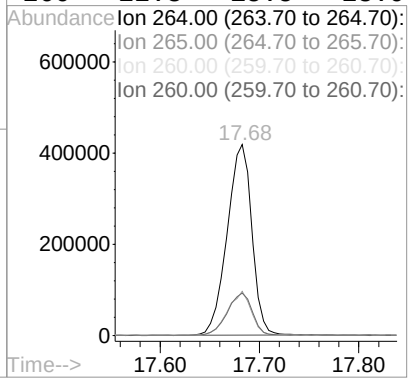


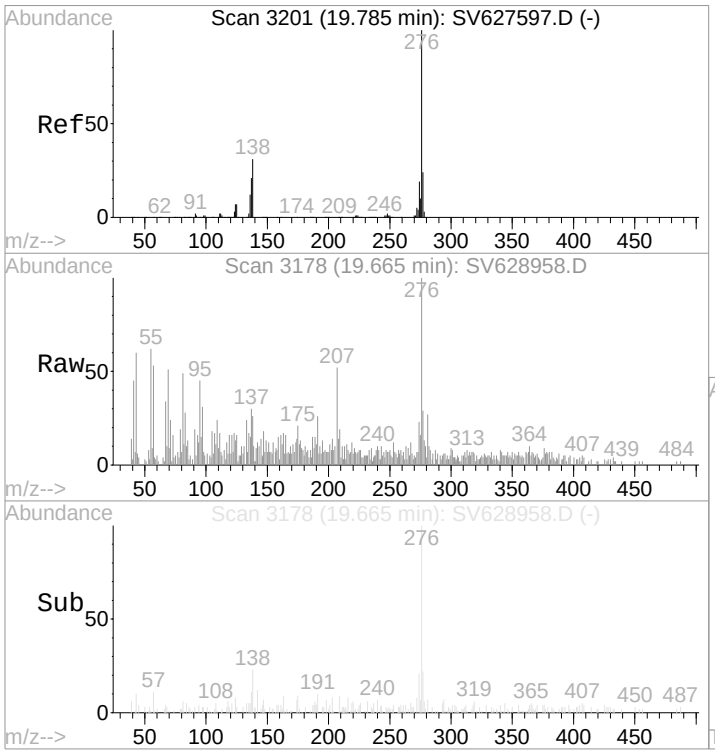


#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.68 min Scan# 2807
Delta R.T. -0.14 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:264 Resp: 7222412

Ion	Ratio	Lower	Upper
264	100		
265	0.0	0.0	0.0
260	22.3	17.8	26.6
260	22.3	15.5	28.9

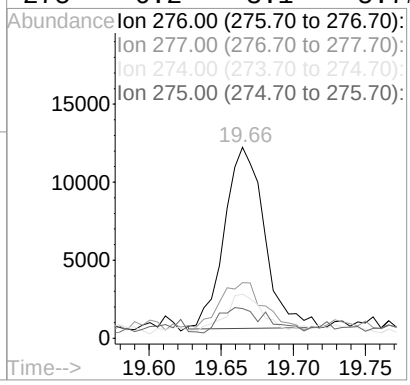


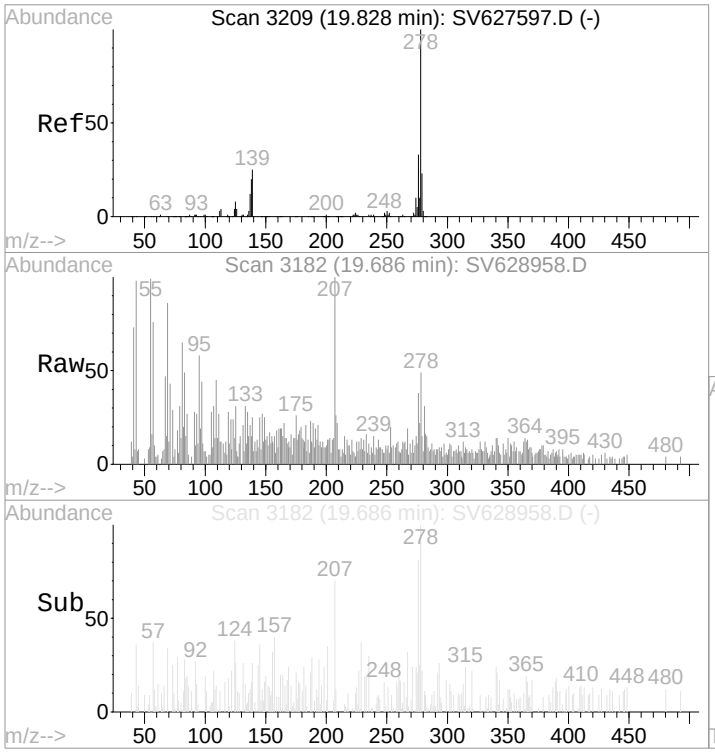


#93
Indeno(1,2,3-cd)pyrene
Concen: 1.01 ug/mL
RT: 19.67 min Scan# 3178
Delta R.T. -0.11 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:276 Resp: 223971

Ion	Ratio	Lower	Upper
276	100		
277	27.2	12.9	19.3#
274	16.8	10.8	16.2#
275	6.2	3.1	5.7#

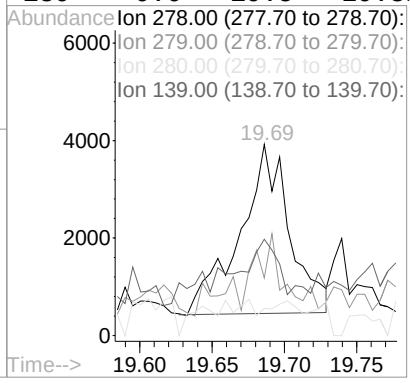


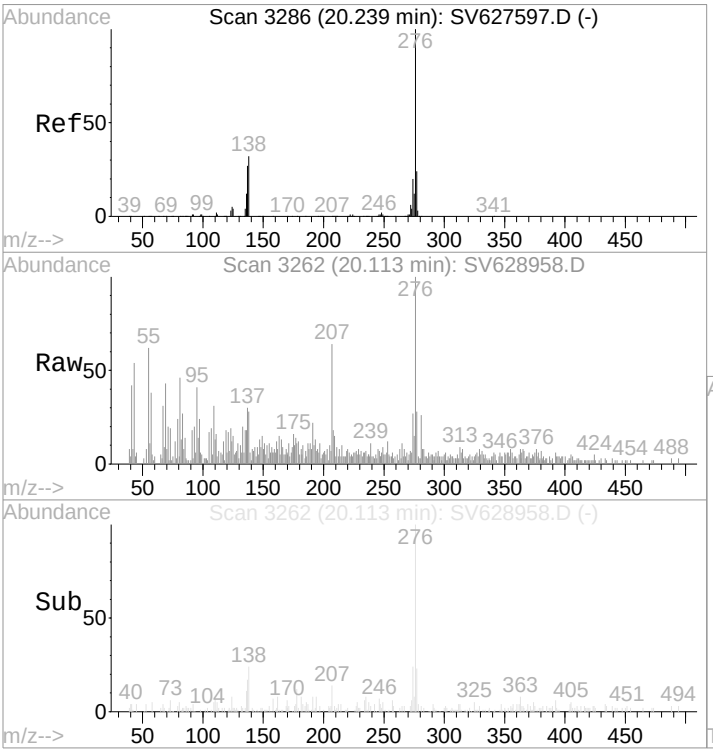


#94
Dibenz(a,h)anthracene
Concen: 0.52 ug/mL
RT: 19.69 min Scan# 3182
Delta R.T. -0.13 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:278 Resp: 82011

Ion	Ratio	Lower	Upper
278	100		
279	0.0	18.5	27.7#
280	0.0	0.0	5.0
139	0.0	19.5	29.3#

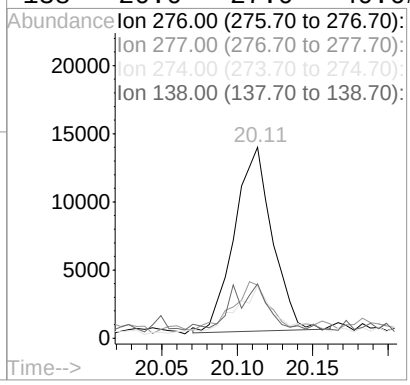




#95
Benzo(g,h,i)perylene
Concen: 1.13 ug/mL
RT: 20.11 min Scan# 3262
Delta R.T. -0.11 min
Lab File: SV628958.D
Acq: 11 Feb 2020 1:43 am

Tgt Ion:276 Resp: 235275

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
274	24.8	0.0	42.2
138	20.0	27.0	40.6#



FORM VI

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.

Client: Roux Associates

Calibration: YL90003

SDG: 20B0093

Project: 3475.00014000 Lafayette

Instrument: BNA#6

Calibration Date: 12/02/19 07:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
1,1-Biphenyl					5	0.6395338	10	0.6641044	15	0.6438712	20	0.6760113
1,2,4,5-Tetrachlorobenzene					5	0.6280949	10	0.5253492	15	0.590795	20	0.5847206
1,2,4-Trichlorobenzene	1.25	0.295569	2.5	0.3252253	5	0.3364771	10	0.3439179	15	0.349022	20	0.362591
1,2-Dichlorobenzene	1.25	1.326145	2.5	1.575072	5	1.723084	10	1.673109	15	1.713332	20	1.800655
1,2-Diphenylhydrazine (as Azobenzene)	1.25	0.6535323	2.5	0.7703193	5	0.7681126	10	0.7450184	15	0.7608065	20	0.7516553
1,3-Dichlorobenzene	1.25	1.394683	2.5	1.686429	5	1.768467	10	1.828036	15	1.812808	20	1.865504
1,4-Dichlorobenzene	1.25	1.39342	2.5	1.615946	5	1.673413	10	1.719645	15	1.728346	20	1.798369
2,3,4,6-Tetrachlorophenol	1.25	0.1285831	2.5	0.1325952	5	0.1345285	10	0.1382519	15	0.1522637	20	0.1507083
2,4,5-Trichlorophenol	1.25	0.3633033	2.5	0.500154	5	0.4985148	10	0.4866787	15	0.5044676	20	0.5236095
2,4,6-Trichlorophenol	1.25	0.2878252	2.5	0.362832	5	0.3944311	10	0.3912643	15	0.4007717	20	0.4217782
2,4-Dichlorophenol	1.25	0.2456248	2.5	0.3162986	5	0.3260061	10	0.3421849	15	0.3436381	20	0.3471427
2,4-Dimethylphenol	1.25	0.3155025	2.5	0.3538932	5	0.3791446	10	0.3637598	15	0.3770924	20	0.3855176
2,4-Dinitrophenol	1.25	2.282017E-02	2.5	5.257401E-02	5	8.101262E-02	10	0.1019135	15	0.1101919	20	0.1125876
2,4-Dinitrotoluene	1.25	0.3080047	2.5	0.3477042	5	0.3866946	10	0.4364913	15	0.4497481	20	0.4700444
2,6-Dinitrotoluene	1.25	0.2261952	2.5	0.2921927	5	0.3018268	10	0.320856	15	0.3352083	20	0.3684697
2-Chloronaphthalene	1.25	1.113707	2.5	1.345567	5	1.327609	10	1.27896	15	1.274364	20	1.31717
2-Chlorophenol	1.25	1.309337	2.5	1.538605	5	1.598761	10	1.647576	15	1.698325	20	1.733561
2-Methylnaphthalene	1.25	0.637874	2.5	0.7082093	5	0.746243	10	0.7569183	15	0.7587391	20	0.756908
2-Methylphenol	1.25	1.139887	2.5	1.380248	5	1.500399	10	1.471095	15	1.438447	20	1.513989
2-Nitroaniline	1.25	0.3896063	2.5	0.3848299	5	0.4402916	10	0.4552274	15	0.4622591	20	0.4939338
2-Nitrophenol	1.25	0.1724902	2.5	0.1971373	5	0.2010675	10	0.2008115	15	0.2112892	20	0.2244208
3- & 4-Methylphenols	1.25	1.56558	2.5	2.047332	5	2.147609	10	2.211132	15	2.219588	20	2.281726
3,3-Dichlorobenzidine	1.25	0.4139302	2.5	0.4857331	10	0.4677741	20	0.4982111	30	0.5151449	40	0.5193734
3-Nitroaniline	1.25	0.3188378	2.5	0.3648509	5	0.388344	10	0.3858762	15	0.415593	20	0.4379399
4,6-Dinitro-2-methylphenol	1.25	3.838116E-02	2.5	4.884861E-02	5	0.0702314	10	7.468852E-02	15	8.855109E-02	20	9.104382E-02
4-Bromophenyl phenyl ether	1.25	0.1783801	2.5	0.2259794	5	0.2252959	10	0.2330494	15	0.240179	20	0.2414158
4-Chloro-3-methylphenol	1.25	0.3197941	2.5	0.3275361	5	0.3514014	10	0.3559548	15	0.3521649	20	0.3577212
4-Chloroaniline	1.25	0.3823498	2.5	0.4661221	5	0.4920072	10	0.5005873	15	0.4921364	20	0.5146261
4-Chlorophenyl phenyl ether	1.25	0.6250335	2.5	0.7294291	5	0.6892972	10	0.7090871	15	0.748867	20	0.7512585
4-Nitroaniline	1.25	0.3146896	2.5	0.3837343	5	0.4104149	10	0.4074489	15	0.4199202	20	0.4456158
4-Nitrophenol	1.25	0.2037909	2.5	0.2314232	5	0.2491536	10	0.2737546	15	0.2770742	20	0.2764617

FORM VI

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.

SDG: 20B0093

Client: Roux Associates

Project: 3475.00014000 Lafayette

Calibration: YL90003

Instrument: BNA#6

Calibration Date: 12/02/19 07:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	1.25	0.9537063	2.5	1.100308	5	1.226759	10	1.159136	15	1.222271	20	1.251834
Acenaphthylene	1.25	1.75025	2.5	2.105793	5	2.188861	10	2.122284	15	2.138169	20	2.168015
Acetophenone					5	2.022278	10	2.168317	15	2.086199	20	2.151555
Aniline	1.25	1.831878	2.5	2.061824	5	2.20297	10	2.126307	15	2.205162	20	2.258335
Anthracene	1.25	0.9484764	2.5	1.131508	5	1.170421	10	1.128691	15	1.160177	20	1.168119
Atrazine	1.25	0.2181818	2.5	0.3608536	5	0.2430959	10	0.2275944	15	0.2297592	20	0.2255305
Benzaldehyde					5	1.250997	10	1.222469	15	1.126979	20	1.058291
Benzidine	1.25	0.3537213	2.5	0.4382916	5	0.4817793	10	0.4773874	15	0.4833081	20	0.4809608
Benzo(a)anthracene	1.25	1.140456	2.5	1.301476	5	1.357433	10	1.310205	15	1.370001	20	1.424754
Benzo(a)pyrene	1.25	0.9886073	2.5	1.246307	5	1.197893	10	1.193026	15	1.204645	20	1.234791
Benzo(b)fluoranthene	1.25	0.9118964	2.5	1.203014	5	1.214637	10	1.201443	15	1.254887	20	1.309559
Benzo(g,h,i)perylene	1.25	0.8755812	2.5	1.165846	5	1.171535	10	1.165131	15	1.107499	20	1.213747
Benzo(k)fluoranthene	1.25	1.108654	2.5	1.427316	5	1.421458	10	1.448705	15	1.507751	20	1.599653
Benzoic acid	1.25		2.5	~~0.1539717~~	5	0.2425474	10	0.2975868	15	0.3011681	20	0.3154987
Benzyl alcohol	1.25	0.7190392	2.5	0.8196656	5	0.9175337	10	0.9238861	15	0.9248409	20	0.9835252
Benzyl butyl phthalate	1.25	0.5933463	2.5	0.6925431	5	0.7178455	10	0.7121091	15	0.7253656	20	0.7657703
Bis(2-chloroethoxy)methane	1.25	0.4356733	2.5	0.4309364	5	0.4409212	10	0.4492773	15	0.449752	20	0.4552489
Bis(2-chloroethyl)ether	1.25	1.20645	2.5	1.350235	5	1.419629	10	1.413895	15	1.452217	20	1.46594
Bis(2-chloroisopropyl)ether	1.25	1.074472	2.5	1.250275	5	1.321749	10	1.264757	15	1.303656	20	1.333509
Bis(2-ethylhexyl)phthalate	1.25	0.8230856	2.5	0.8972735	5	0.9581481	10	0.9482411	15	0.9910843	20	1.011503
Caprolactam					5	0.1379095	10	0.1400838	15	0.1413231	20	0.1454975
Carbazole	1.25	0.9712833	2.5	1.210159	5	1.206441	10	1.199372	15	1.216577	20	1.20624
Chrysene	1.25	1.01427	2.5	1.241081	5	1.324418	10	1.32313	15	1.346351	20	1.349908
Dibenzo(a,h)anthracene	1.25	0.7372462	2.5	0.9085552	5	0.8807996	10	0.8282119	15	0.884545	20	0.9412165
Dibenzofuran	1.25	1.472551	2.5	1.707323	5	1.891221	10	1.844643	15	1.886241	20	1.93405
Diethyl phthalate	1.25	1.182189	2.5	1.481435	5	1.525803	10	1.503047	15	1.543716	20	1.556731
Dimethyl phthalate	1.25	1.286309	2.5	1.440625	5	1.539653	10	1.507733	15	1.55883	20	1.588887
Di-n-butyl phthalate	1.25	1.159131	2.5	1.397756	5	1.451993	10	1.454254	15	1.474674	20	1.4905
Di-n-octyl phthalate	1.25	1.084602	2.5	1.337714	5	1.425692	10	1.473667	15	1.524437	20	1.574491
Fluoranthene	1.25	1.042528	2.5	1.220761	5	1.283682	10	1.28258	15	1.317945	20	1.336824
Fluorene	1.25	1.250223	2.5	1.435927	5	1.485657	10	1.505027	15	1.477937	20	1.507801

FORM VI

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.

Client: Roux Associates

Calibration: YL90003

SDG: 20B0093

Project: 3475.00014000 Lafayette

Instrument: BNA#6

Calibration Date: 12/02/19 07:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Hexachlorobenzene	1.25	8.437969E-02	2.5	9.170288E-02	5	9.665647E-02	10	9.386018E-02	15	9.986516E-02	20	9.492687E-02
Hexachlorobutadiene	1.25	0.1586481	2.5	0.1822418	5	0.1892246	10	0.1891803	15	0.1878617	20	0.1901721
Hexachlorocyclopentadiene	1.25	0.284436	2.5	0.3304187	5	0.3535715	10	0.3475699	15	0.3506521	20	0.3778367
Hexachloroethane	1.25	0.6099526	2.5	0.6273796	5	0.6698899	10	0.6457737	15	0.6745664	20	0.6654131
Indeno(1,2,3-cd)pyrene	1.25	0.9895363	2.5	1.175824	5	1.208742	10	1.203722	15	1.258943	20	1.267385
Isophorone	1.25	0.6180262	2.5	0.6803453	5	0.6934068	10	0.6967661	15	0.7116578	20	0.7071172
Naphthalene	1.25	0.9175561	2.5	1.074763	5	1.075934	10	1.061843	15	1.029961	20	1.092642
Nitrobenzene	1.25	0.3838803	2.5	0.3892637	5	0.4031856	10	0.3894616	15	0.3814031	20	0.3742295
N-Nitrosodimethylamine	1.25	0.7079951	2.5	0.8909033	5	0.9477943	10	0.9372856	15	0.9463461	20	0.9929899
N-nitroso-di-n-propylamine	1.25	0.8832087	2.5	1.099038	5	1.004257	10	1.062986	15	1.045428	20	1.046181
N-Nitrosodiphenylamine	1.25	0.1771068	2.5	0.1896729	5	0.2005902	10	0.2012099	15	0.2040043	20	0.2060055
Pentachlorophenol	1.25	6.928642E-02	2.5	0.108566	5	0.1329781	10	0.1331234	15	0.1418537	20	0.1424216
Phenanthrene	1.25	0.8662303	2.5	1.031779	5	1.11031	10	1.091321	15	1.107321	20	1.125073
Phenol	1.25	1.659191	2.5	1.936292	5	2.062331	10	1.984434	15	2.00723	20	2.103382
Pyrene	1.25	1.164201	2.5	1.433557	5	1.551142	10	1.486146	15	1.531265	20	1.568552
Pyridine					5	1.501429	10	1.490331	15	1.566628	20	1.618978
SURR: 2,4,6-Tribromophenol	1.25	8.085963E-02	2.5	9.477411E-02	5	9.516614E-02	10	9.558361E-02	15	0.1057467	20	0.1088702
SURR: 2-Fluorobiphenyl	1.25	1.195267	2.5	1.400261	5	1.463278	10	1.400194	15	1.392049	20	1.411608
SURR: 2-Fluorophenol	1.25	1.106732	2.5	1.381506	5	1.47234	10	1.453658	15	1.516953	20	1.597218
SURR: Nitrobenzene-d5	1.25	0.3288609	2.5	0.3577725	5	0.3572713	10	0.367649	15	0.3576765	20	0.3595763
SURR: Phenol-d5	1.25	1.457962	2.5	1.687971	5	1.842987	10	1.840798	15	1.915132	20	2.051742
SURR: Terphenyl-d14	1.25	0.7593903	2.5	0.9524082	5	0.9891031	10	0.994458	15	0.9986091	20	1.021249

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Calibration: YL90003
Instrument: BNA#6
Calibration Date: 12/02/19 07:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
1,1-Biphenyl	30	0.6727669	40	0.6487259								
1,2,4,5-Tetrachlorobenzene	30	0.5713378	40	0.5729161								
1,2,4-Trichlorobenzene	30	0.349948	40	0.3356865								
1,2-Dichlorobenzene	30	1.688976	40	1.642528								
1,2-Diphenylhydrazine (as Azobenzene)	30	0.7482828	40	0.7041284								
1,3-Dichlorobenzene	30	1.817299	40	1.753668								
1,4-Dichlorobenzene	30	1.715809	40	1.686877								
2,3,4,6-Tetrachlorophenol	30	0.1546898	40	0.152188								
2,4,5-Trichlorophenol	30	0.5278569	40	0.5398673								
2,4,6-Trichlorophenol	30	0.4241672	40	0.42798								
2,4-Dichlorophenol	30	0.3396327	40	0.332509								
2,4-Dimethylphenol	30	0.3650723	40	0.353147								
2,4-Dinitrophenol	30	0.1356705	40	0.1472654								
2,4-Dinitrotoluene	30	0.5105174	40	0.4996181								
2,6-Dinitrotoluene	30	0.3691286	40	0.3729096								
2-Chloronaphthalene	30	1.316205	40	1.292189								
2-Chlorophenol	30	1.664359	40	1.69742								
2-Methylnaphthalene	30	0.7380421	40	0.716063								
2-Methylphenol	30	1.444523	40	1.440313								
2-Nitroaniline	30	0.5016411	40	0.511804								
2-Nitrophenol	30	0.2137096	40	0.2134825								
3- & 4-Methylphenols	30	2.1846	40	2.136482								
3,3-Dichlorobenzidine	60	0.4868195	80	0.477881								
3-Nitroaniline	30	0.445338	40	0.4457256								
4,6-Dinitro-2-methylphenol	30	0.1071141	40	0.1113757								
4-Bromophenyl phenyl ether	30	0.2424218	40	0.2486063								
4-Chloro-3-methylphenol	30	0.3378844	40	0.3331598								
4-Chloroaniline	30	0.4829187	40	0.4704122								
4-Chlorophenyl phenyl ether	30	0.7683769	40	0.7487883								
4-Nitroaniline	30	0.4431773	40	0.4582783								
4-Nitrophenol	30	0.2823005	40	0.2784056								

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

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YL90003 Instrument: BNA#6

Calibration Date: 12/02/19 07:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	30	1.238565	40	1.212937								
Acenaphthylene	30	2.149659	40	2.083253								
Acetophenone	30	2.081937	40	1.956012								
Aniline	30	2.155328	40	2.097094								
Anthracene	30	1.181332	40	1.163283								
Atrazine	30	0.2241212	40	0.2213335								
Benzaldehyde	30	0.9053718	40	0.7631721								
Benzidine	30	0.3925549	40	0.4252529								
Benzo(a)anthracene	30	1.418585	40	1.412447								
Benzo(a)pyrene	30	1.353953	40	1.276226								
Benzo(b)fluoranthene	30	1.320224	40	1.326125								
Benzo(g,h,i)perylene	30	1.251589	40	1.31146								
Benzo(k)fluoranthene	30	1.54413	40	1.548424								
Benzoic acid	30	0.3275301	40	0.3357264								
Benzyl alcohol	30	0.9741113	40	0.9799662								
Benzyl butyl phthalate	30	0.7731285	40	0.7568844								
Bis(2-chloroethoxy)methane	30	0.4259928	40	0.4032588								
Bis(2-chloroethyl)ether	30	1.415143	40	1.415829								
Bis(2-chloroisopropyl)ether	30	1.283947	40	1.197063								
Bis(2-ethylhexyl)phthalate	30	1.025819	40	0.9936239								
Caprolactam	30	0.1096013	40	0.1093071								
Carbazole	30	1.209729	40	1.182423								
Chrysene	30	1.387598	40	1.355029								
Dibenzo(a,h)anthracene	30	0.9043192	40	0.9304959								
Dibenzofuran	30	1.913731	40	1.857681								
Diethyl phthalate	30	1.587991	40	1.507125								
Dimethyl phthalate	30	1.597669	40	1.557391								
Di-n-butyl phthalate	30	1.490108	40	1.441541								
Di-n-octyl phthalate	30	1.581573	40	1.565725								
Fluoranthene	30	1.335859	40	1.28757								
Fluorene	30	1.530183	40	1.465891								

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

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YL90003 Instrument: BNA#6

Calibration Date: 12/02/19 07:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Hexachlorobenzene	30	9.961005E-02	40	9.797227E-02								
Hexachlorobutadiene	30	0.1920117	40	0.1772425								
Hexachlorocyclopentadiene	30	0.3743247	40	0.3701958								
Hexachloroethane	30	0.6716856	40	0.6534863								
Indeno(1,2,3-cd)pyrene	30	1.363248	40	1.339817								
Isophorone	30	0.681202	40	0.6492868								
Naphthalene	30	1.026591	40	0.9645512								
Nitrobenzene	30	0.365365	40	0.3531398								
N-Nitrosodimethylamine	30	0.939349	40	0.968248								
N-nitroso-di-n-propylamine	30	1.012271	40	0.9366985								
N-Nitrosodiphenylamine	30	0.2071499	40	0.1973392								
Pentachlorophenol	30	0.1588699	40	0.1668853								
Phenanthrene	30	1.13222	40	1.085841								
Phenol	30	2.070044	40	1.999888								
Pyrene	30	1.558505	40	1.541174								
Pyridine	30	1.68874	40	1.560281								
SURR: 2,4,6-Tribromophenol	30	0.111298	40	0.1184829								
SURR: 2-Fluorobiphenyl	30	1.424587	40	1.363325								
SURR: 2-Fluorophenol	30	1.576819	40	1.582909								
SURR: Nitrobenzene-d5	30	0.3588706	40	0.3313603								
SURR: Phenol-d5	30	2.00586	40	1.954558								
SURR: Terphenyl-d14	30	1.04583	40	1.034221								

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

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YL90003 Instrument: BNA#6

Calibration Date: 12/02/19 07:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	0.6575023	2.360924	6.78	2.140274E-03			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	0.5788689	5.758678	6.558333	6.390223E-02			SPCC (0.01)	
1,2,4-Trichlorobenzene	0.3373046	6.004436	5.81	1.112908E-02			20	
1,2-Dichlorobenzene	1.642863	8.737818	5.0625	9.222443E-02			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.7377319	5.396394	8.17	4.54305E-03			20	
1,3-Dichlorobenzene	1.740862	8.626869	4.89	1.910032E-02			20	
1,4-Dichlorobenzene	1.666478	7.316385	4.92	1.983295E-02			20	
2,3,4,6-Tetrachlorophenol	0.1429761	7.367473	7.76	1.835992E-02			SPCC (0.01)	
2,4,5-Trichlorophenol	0.4930565	11.21998	6.67	0.0214244			SPCC (0.2)	
2,4,6-Trichlorophenol	0.3888812	11.87375	6.64	1.893006E-02			SPCC (0.2)	
2,4-Dichlorophenol	0.3241296	10.28184	5.75	0			SPCC (0.2)	
2,4-Dimethylphenol	0.3616412	6.087331	5.59375	9.294492E-02			SPCC (0.2)	
2,4-Dinitrophenol	9.550446E-02	43.67176	7.4525	6.363827E-02			SPCC (0.01)	
2,4-Dinitrotoluene	0.4261029	17.01027	7.62	1.697111E-02			SPCC (0.2)	
2,6-Dinitrotoluene	0.3233484	15.51064	7.19375	7.267757E-02			SPCC (0.2)	
2-Chloronaphthalene	1.283221	5.666409	6.8	1.504259E-02			SPCC (0.8)	
2-Chlorophenol	1.610993	8.481667	4.78	2.962624E-03			SPCC (0.8)	
2-Methylnaphthalene	0.7273746	5.621655	6.38	2.026957E-02			SPCC (0.4)	
2-Methylphenol	1.416113	8.405759	5.11	0.018278			SPCC (0.7)	
2-Nitroaniline	0.4549492	10.63505	6.93	1.470187E-02			SPCC (0.01)	
2-Nitrophenol	0.2043011	7.655542	5.59	1.327968E-02			SPCC (0.1)	
3- & 4-Methylphenols	2.099256	10.78486	5.21	0.0093645			SPCC (0.6)	
3,3-Dichlorobenzidine	0.4831084	6.837632	14.75375	3.457794E-02			SPCC (0.01)	
3-Nitroaniline	0.4003132	11.16612	7.34625	7.117397E-02			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	0.0787793	32.99295	8.11	7.16268E-03			SPCC (0.01)	
4-Bromophenyl phenyl ether	0.229416	9.668358	8.63	2.409016E-02			SPCC (0.1)	
4-Chloro-3-methylphenol	0.3419521	4.181218	6.26	6.186297E-03			SPCC (0.2)	
4-Chloroaniline	0.475145	8.550606	5.92	1.871633E-02			SPCC (0.01)	
4-Chlorophenyl phenyl ether	0.7212672	6.447013	7.97	6.786235E-03			SPCC (0.4)	
4-Nitroaniline	0.4104099	11.11931	8.07	1.819247E-02			SPCC (0.01)	
4-Nitrophenol	0.2590455	10.99077	7.49125	4.920204E-02			SPCC (0.01)	
Acenaphthene	1.17069	8.599715	7.4	1.229904E-02			SPCC (0.9)	

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

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YL90003 Instrument: BNA#6

Calibration Date: 12/02/19 07:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthylene	2.088285	6.73534	7.21	6.766858E-03			SPCC (0.9)	
Acetophenone	2.077716	3.828413	5.226667	9.785077E-02			SPCC (0.01)	
Aniline	2.117362	6.220384	4.7025	9.900405E-02			SPCC ()	
Anthracene	1.131501	6.737065	9.44	1.592526E-02			SPCC (0.7)	
Atrazine	0.2438088	19.63614	8.93875	3.768172E-02			SPCC (0.01)	
Benzaldehyde	1.054547	17.95239	4.601667	9.097499E-02			SPCC (0.01)	
Benzidine	0.441657	11.02279	11.93	1.230622E-02			20	
Benzo(a)anthracene	1.34192	7.01164	14.68125	2.507429E-02			SPCC (0.8)	
Benzo(a)pyrene	1.211931	8.625292	17.69	4.423964E-02			SPCC (0.7)	
Benzo(b)fluoranthene	1.217723	11.0217	17.0425	2.998852E-02			SPCC (0.7)	
Benzo(g,h,i)perylene	1.157799	11.21504	20.22875	3.787415E-02			SPCC (0.5)	
Benzo(k)fluoranthene	1.450761	10.49002	17.09125	4.025555E-02			SPCC (0.7)	
Benzoic acid	0.3033429	10.94891	5.655	0.1852419			20	
Benzyl alcohol	0.905321	10.16939	5.02875	6.814817E-02			20	
Benzyl butyl phthalate	0.7171241	8.01102	13.66	5.434366E-03			20	
Bis(2-chloroethoxy)methane	0.4363826	3.831431	5.67	2.520295E-02			SPCC (0.3)	
Bis(2-chloroethyl)ether	1.392417	5.922939	4.74	8.17009E-03			SPCC (0.7)	
Bis(2-chloroisopropyl)ether	1.253678	6.732971	5.13	1.999757E-02			SPCC (0.01)	
Bis(2-ethylhexyl)phthalate	0.9560973	7.047525	15.06	1.843704E-02			20	
Caprolactam	0.1306204	12.69391	6.161667	6.725645E-02			SPCC (0.01)	
Carbazole	1.175278	7.06665	9.7325	4.501297E-02			SPCC (0.01)	
Chrysene	1.292723	9.299359	14.775	3.524823E-02			SPCC (0.7)	
Dibenzo(a,h)anthracene	0.8769237	7.553217	19.82125	3.257673E-02			SPCC (0.4)	
Dibenzofuran	1.81343	8.500884	7.57	1.715653E-02			SPCC (0.8)	
Diethyl phthalate	1.486005	8.564412	7.88	9.685076E-03			SPCC (0.01)	
Dimethyl phthalate	1.509637	6.823293	7.11	1.313651E-02			SPCC (0.01)	
Di-n-butyl phthalate	1.419995	7.71823	10.48	7.390501E-03			SPCC (0.01)	
Di-n-octyl phthalate	1.445988	11.65713	16.41875	1.009008E-02			SPCC (0.01)	
Fluoranthene	1.263469	7.660906	11.58	2.406703E-02			SPCC (0.6)	
Fluorene	1.457331	6.070313	7.98	9.88059E-03			SPCC (0.9)	
Hexachlorobenzene	0.0948717	5.364842	8.8575	5.503822E-02			SPCC (0.1)	*
Hexachlorobutadiene	0.1833229	6.043161	5.98	2.087383E-02			SPCC (0.01)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Calibration: YL90003
Instrument: BNA#6
Calibration Date: 12/02/19 07:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Hexachlorocyclopentadiene	0.3486257	8.714139	6.56125	5.501602E-02			SPCC (0.05)	
Hexachloroethane	0.6522684	3.577335	5.29	1.744748E-02			SPCC (0.3)	
Indeno(1,2,3-cd)pyrene	1.225902	9.443512	19.78125	2.708022E-02			SPCC (0.5)	
Isophorone	0.679726	4.646773	5.52	5.018146E-03			SPCC (0.4)	
Naphthalene	1.03048	5.912932	5.86	2.487546E-02			SPCC (0.7)	
Nitrobenzene	0.3799911	4.099759	5.36	1.445009E-02			SPCC (0.2)	
N-Nitrosodimethylamine	0.9163639	9.71537	2.9325	0.1594485			20	
N-nitroso-di-n-propylamine	1.011259	6.96975	5.24	7.390501E-03			SPCC (0.5)	
N-Nitrosodiphenylamine	0.1978848	5.078898	8.13	1.261839E-02			SPCC (0.01)	
Pentachlorophenol	0.1317481	23.35692	9.13125	3.977129E-02			SPCC (0.05)	
Phenanthrene	1.068762	8.187393	9.37	2.066501E-03			SPCC (0.7)	
Phenol	1.977849	7.048879	4.67375	0.1115013			SPCC (0.8)	
Pyrene	1.479318	9.117983	12.03125	1.738849E-02			SPCC (0.6)	
Pyridine	1.571065	4.73304	2.951667	0.39619			20	
SURR: 2,4,6-Tribromophenol	0.1013477	11.81086	8.33	1.827568E-02			20	
SURR: 2-Fluorobiphenyl	1.381321	5.822267	6.7	0.0218147			20	
SURR: 2-Fluorophenol	1.461017	11.03557	3.98	1.719274E-02			20	
SURR: Nitrobenzene-d5	0.3523797	4.017765	5.34125	6.763627E-02			20	
SURR: Phenol-d5	1.844626	10.44825	4.6675	9.973591E-02			20	
SURR: Terphenyl-d14	0.9744086	9.405302	12.44	1.662926E-02			20	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627591.D Vial: 3
Acq On : 2 Dec 2019 10:13 am Operator: SR
Sample : SEQ-CAL1 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:29 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1393682	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	5226963	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3077979	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	5654441	40.00	ug/mL	0.00
80) Chrysene-d12	14.72	240	5207293	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	5860555	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.98	112	48201	0.96	ug/mL	0.00
Spiked Amount 75.000	Range 15 - 87		Recovery =	1.28%#		
5) Phenol-d5	4.66	99	63498	0.99	ug/mL	0.00
Spiked Amount 75.000	Range 10 - 100		Recovery =	1.32%#		
22) Nitrobenzene-d5	5.35	82	53717	1.28	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 120		Recovery =	2.56%#		
45) 2-Fluorobiphenyl	6.70	172	114969	1.09	ug/mL	0.00
Spiked Amount 50.000	Range 29 - 120		Recovery =	2.18%#		
67) 2,4,6-Tribromophenol	8.33	330	14288m	1.18	ug/mL	0.00
Spiked Amount 75.000	Range 35 - 126		Recovery =	1.57%#		
82) Terphenyl-d14	12.44	244	123574	0.94	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 127		Recovery =	1.88%#		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.94	74	30835	0.98	ug/mL#	27
7) Aniline	4.70	93	79783	1.08	ug/mL#	95
8) Phenol	4.67	94	72262	1.07	ug/mL	95
9) Bis(2-chloroethyl)ether	4.74	93	52544	1.08	ug/mL	95
10) 2-Chlorophenol	4.78	128	57025	1.05	ug/mL	97
11) 1,3-Dichlorobenzene	4.89	146	60742	1.00	ug/mL	96
12) 1,4-Dichlorobenzene	4.92	146	60687m	1.04	ug/mL	
13) Benzyl Alcohol	5.03	108	31316	1.02	ug/mL#	81
14) 1,2-Dichlorobenzene	5.06	146	57757m	1.02	ug/mL	
15) 2-Methylphenol	5.11	107	49645	1.05	ug/mL#	92
17) Bis(2-chloroisopropyl) eth	5.13	45	46796	1.11	ug/mL#	69
18) N-Nitroso-di-n-propylamine	5.24	70	38466	1.15	ug/mL#	78
19) 4-Methylphenol	5.21	107	68185	0.95	ug/mL#	63
20) Hexachloroethane	5.29	117	26565	1.18	ug/mL#	75
23) Nitrobenzene	5.36	77	62704	1.35	ug/mL#	88
24) Isophorone	5.52	82	100950	1.17	ug/mL#	92
25) 2-Nitrophenol	5.59	139	28175	1.29	ug/mL#	60
26) 2,4-Dimethylphenol	5.59	122	51535	1.14	ug/mL	94
27) Bis(2-chloroethoxy) methan	5.67	93	71164	1.32	ug/mL#	92
29) 2,4-Dichlorophenol	5.75	162	40121	0.99	ug/mL#	84
30) 1,2,4-Trichlorobenzene	5.81	180	48279	1.11	ug/mL	97
32) Naphthalene	5.86	128	149876	1.12	ug/mL#	92
33) 4-Chloroaniline	5.92	127	62454	1.03	ug/mL#	82
34) Hexachlorobutadiene	5.98	225	25914	1.13	ug/mL	92
36) 4-Chloro-3-methylphenol	6.26	107	52236	1.23	ug/mL	94
38) 2-Methylnaphthalene	6.38	142	104192	1.12	ug/mL	98
41) Hexachlorocyclopentadiene	6.57	237	27359	1.15	ug/mL#	93
43) 2,4,6-Trichlorophenol	6.64	196	27685	1.02	ug/mL#	60
44) 2,4,5-Trichlorophenol	6.67	196	34945	0.97	ug/mL#	86
46) 2-Chloronaphthalene	6.80	162	107124	1.09	ug/mL	97
47) 2-Nitroaniline	6.93	138	37475	1.18	ug/mL#	94
48) Dimethylphthalate	7.11	163	123726	1.06	ug/mL#	76
49) 2,6-Dinitrotoluene	7.20	165	21757	0.94	ug/mL#	18
50) Acenaphthylene	7.21	152	168351	1.07	ug/mL	99
51) 3-Nitroaniline	7.35	138	30668	1.09	ug/mL#	56
52) Acenaphthene	7.40	154	91734	1.01	ug/mL	95

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627591.D Vial: 3
Acq On : 2 Dec 2019 10:13 am Operator: SR
Sample : SEQ-CAL1 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:29 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

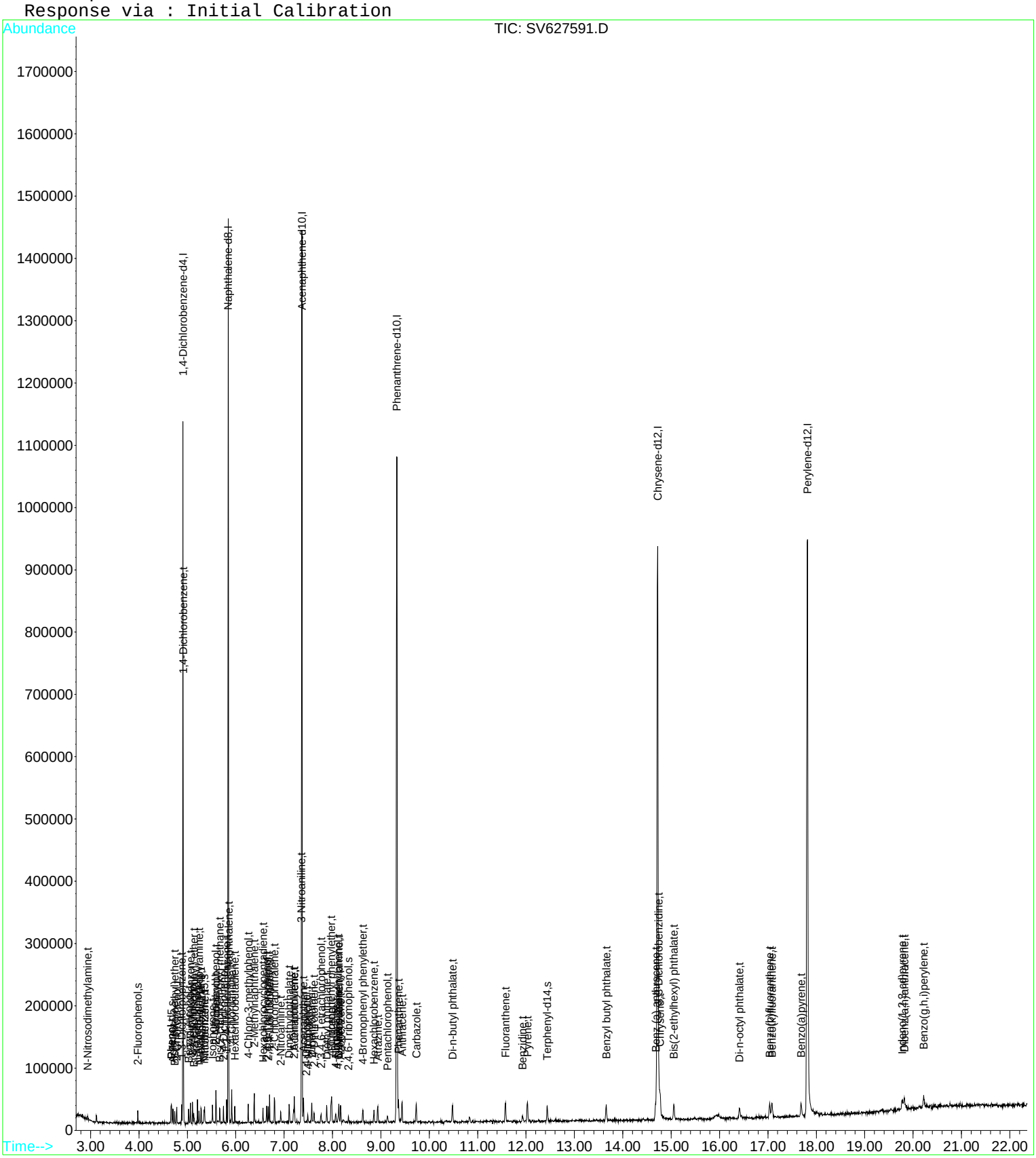
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53) 2,4-Dinitrophenol	7.46	184	2195m	0.36	ug/mL	
54) Dibenzofuran	7.57	168	141640	1.03	ug/mL	99
55) 2,4-Dinitrotoluene	7.62	165	29626	0.98	ug/mL#	79
56) 4-Nitrophenol	7.49	65	19602m	1.10	ug/mL	
57) 2,3,4,6-Tetrachlorophenol	7.76	131	12368m	1.23	ug/mL	
58) Diethyl phthalate	7.88	149	113711	0.99	ug/mL#	88
59) Fluorene	7.98	166	120255	1.08	ug/mL	97
60) 4-Chlorophenyl phenylether	7.97	204	60120	1.11	ug/mL	94
61) 4-Nitroaniline	8.07	138	30269	1.06	ug/mL#	58
63) 4,6-Dinitro-2-methylphenol	8.11	198	6782m	0.72	ug/mL	
64) Diphenylamine	8.13	169	86683	1.06	ug/mL	98
65) N-Nitrosodiphenylamine	8.13	167	31295	1.13	ug/mL	93
66) Azobenzene	8.17	77	115480	1.07	ug/mL#	92
68) 4-Bromophenyl phenylether	8.63	248	31520	1.01	ug/mL#	87
69) Atrazine	8.94	200	38553m	1.25	ug/mL	
70) Hexachlorobenzene	8.86	142	14910m	1.08	ug/mL	
71) Pentachlorophenol	9.13	266	12243m	0.76	ug/mL	
73) Phenanthrene	9.37	178	153064	1.02	ug/mL#	92
74) Anthracene	9.44	178	167597	1.07	ug/mL#	94
75) Carbazole	9.73	167	171627	1.05	ug/mL#	96
76) Di-n-butyl phthalate	10.48	149	204820	1.09	ug/mL#	80
78) Fluoranthene	11.58	202	184216	1.07	ug/mL	98
79) Benzidine	11.93	184	62503	1.53	ug/mL#	68
81) Pyrene	12.03	202	189448	0.86	ug/mL	99
83) Benzyl butyl phthalate	13.66	149	96554	1.10	ug/mL#	79
84) Bis(2-ethylhexyl) phthalat	15.06	149	133939	1.27	ug/mL#	88
85) Benz (a) anthracene	14.68	228	185584	1.19	ug/mL	97
86) 3,3-Dichlorobenzidine	14.75	252	67358	1.24	ug/mL#	87
87) Chrysene	14.77	228	165050	0.90	ug/mL	97
88) Di-n-octyl phthalate	16.41	149	176495	1.43	ug/mL#	80
89) Benzo(b)fluoranthene	17.04	252	148391	1.11	ug/mL#	66
90) Benzo(k)fluoranthene	17.08	252	180409	1.06	ug/mL#	67
91) Benzo(a)pyrene	17.68	252	160874m	1.24	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.77	276	181226m	1.27	ug/mL	
94) Dibenz(a,h)anthracene	19.82	278	135021m	1.53	ug/mL	
95) Benzo(g,h,i)perylene	20.22	276	160356m	1.03	ug/mL	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627591.D Vial: 3
Acq On : 2 Dec 2019 10:13 am Operator: SR
Sample : SEQ-CAL1 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:29 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627592.D Vial: 4
Acq On : 2 Dec 2019 10:45 am Operator: SR
Sample : SEQ-CAL2 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:30 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1462821	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	5712323	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3344314	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	6157800	40.00	ug/mL	0.00
80) Chrysene-d12	14.72	240	5577911	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	6521616	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.98	112	126306	2.40	ug/mL	0.00
Spiked Amount 75.000	Range 15 - 87		Recovery =	3.20%#		
5) Phenol-d5	4.66	99	154325	2.29	ug/mL	0.00
Spiked Amount 75.000	Range 10 - 100		Recovery =	3.05%#		
22) Nitrobenzene-d5	5.34	82	127732	2.78	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 120		Recovery =	5.56%#		
45) 2-Fluorobiphenyl	6.70	172	292682	2.56	ug/mL	0.00
Spiked Amount 50.000	Range 29 - 120		Recovery =	5.12%#		
67) 2,4,6-Tribromophenol	8.33	330	36475	2.76	ug/mL	0.00
Spiked Amount 75.000	Range 35 - 126		Recovery =	3.68%#		
82) Terphenyl-d14	12.44	244	332028	2.35	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 127		Recovery =	4.70%#		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.94	74	81452	2.47	ug/mL	92
7) Aniline	4.70	93	188505	2.43	ug/mL	99
8) Phenol	4.67	94	177028	2.49	ug/mL	95
9) Bis(2-chloroethyl)ether	4.74	93	123447	2.43	ug/mL	98
10) 2-Chlorophenol	4.78	128	140669	2.46	ug/mL	98
11) 1,3-Dichlorobenzene	4.89	146	154184	2.41	ug/mL	97
12) 1,4-Dichlorobenzene	4.92	146	147740m	2.41	ug/mL	
13) Benzyl Alcohol	5.03	108	74939	2.32	ug/mL	89
14) 1,2-Dichlorobenzene	5.06	146	144003	2.41	ug/mL	97
15) 2-Methylphenol	5.11	107	126191	2.54	ug/mL	98
17) Bis(2-chloroisopropyl) eth	5.13	45	114308	2.58	ug/mL	97
18) N-Nitroso-di-n-propylamine	5.24	70	100481	2.85	ug/mL#	78
19) 4-Methylphenol	5.21	107	187180	2.50	ug/mL#	64
20) Hexachloroethane	5.29	117	57359	2.44	ug/mL	95
23) Nitrobenzene	5.36	77	138975	2.75	ug/mL	95
24) Isophorone	5.52	82	242897	2.57	ug/mL	97
25) 2-Nitrophenol	5.59	139	70382	2.95	ug/mL#	92
26) 2,4-Dimethylphenol	5.59	122	126347	2.57	ug/mL	97
27) Bis(2-chloroethoxy) methan	5.67	93	153853	2.60	ug/mL	96
28) Benzoic acid	5.63	105	54971	1.84	ug/mL	83
29) 2,4-Dichlorophenol	5.75	162	112925	2.54	ug/mL#	94
30) 1,2,4-Trichlorobenzene	5.81	180	116112	2.43	ug/mL	96
32) Naphthalene	5.86	128	383712	2.63	ug/mL#	95
33) 4-Chloroaniline	5.92	127	166415	2.50	ug/mL	98
34) Hexachlorobutadiene	5.98	225	65064	2.60	ug/mL	96
36) 4-Chloro-3-methylphenol	6.26	107	116937	2.51	ug/mL	98
38) 2-Methylnaphthalene	6.38	142	252845	2.50	ug/mL	97
41) Hexachlorocyclopentadiene	6.56	237	69064	2.68	ug/mL#	94
43) 2,4,6-Trichlorophenol	6.64	196	75839	2.57	ug/mL	95
44) 2,4,5-Trichlorophenol	6.67	196	104542	2.67	ug/mL	94
46) 2-Chloronaphthalene	6.80	162	281250	2.63	ug/mL	93
47) 2-Nitroaniline	6.93	138	80437	2.33	ug/mL#	87
48) Dimethylphthalate	7.11	163	301119	2.38	ug/mL	98
49) 2,6-Dinitrotoluene	7.20	165	61074	2.44	ug/mL#	85
50) Acenaphthylene	7.21	152	440152	2.56	ug/mL	98
51) 3-Nitroaniline	7.35	138	76261	2.49	ug/mL#	77

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627592.D Vial: 4
Acq On : 2 Dec 2019 10:45 am Operator: SR
Sample : SEQ-CAL2 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:30 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

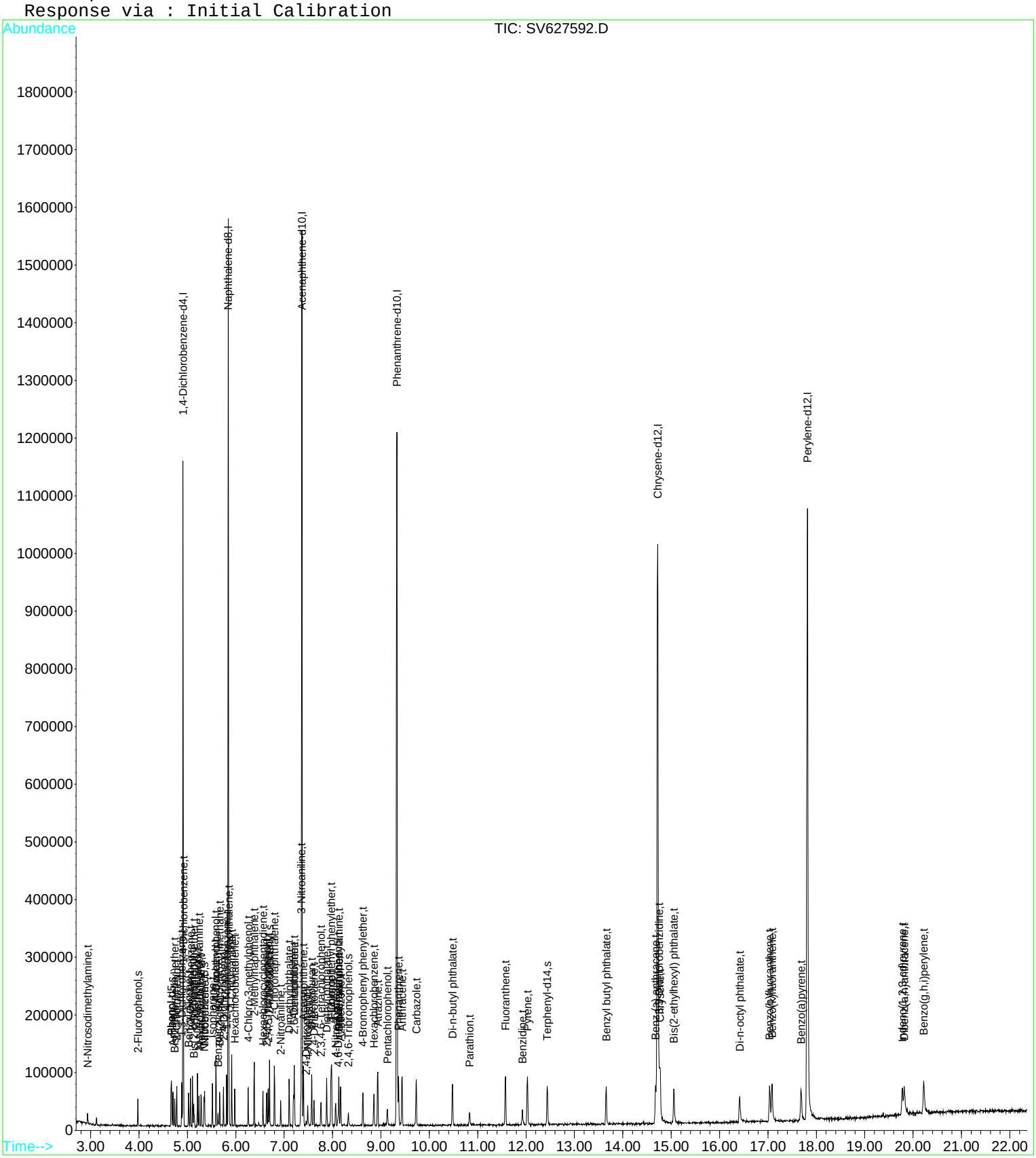
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	Acenaphthene	7.40	154	229986	2.33	ug/mL	96
53)	2,4-Dinitrophenol	7.46	184	10989m	1.68	ug/mL	
54)	Dibenzofuran	7.57	168	356864	2.38	ug/mL	96
55)	2,4-Dinitrotoluene	7.62	165	72677	2.21	ug/mL#	85
56)	4-Nitrophenol	7.49	65	48372	2.51	ug/mL#	89
57)	2,3,4,6-Tetrachlorophenol	7.76	131	27715	2.54	ug/mL#	68
58)	Diethyl phthalate	7.88	149	309649	2.47	ug/mL	97
59)	Fluorene	7.98	166	300137	2.49	ug/mL	96
60)	4-Chlorophenyl phenylether	7.97	204	152465	2.60	ug/mL	97
61)	4-Nitroaniline	8.07	138	80208	2.59	ug/mL	91
63)	4,6-Dinitro-2-methylphenol	8.11	198	18800	1.83	ug/mL#	1
64)	Diphenylamine	8.13	169	228280	2.55	ug/mL	97
65)	N-Nitrosodiphenylamine	8.13	167	72998	2.42	ug/mL	92
66)	Azobenzene	8.17	77	296467	2.53	ug/mL	97
68)	4-Bromophenyl phenylether	8.63	248	86971	2.56	ug/mL	93
69)	Atrazine	8.94	200	138879	4.14	ug/mL	92
70)	Hexachlorobenzene	8.85	142	35293	2.34	ug/mL	97
71)	Pentachlorophenol	9.13	266	41783	2.39	ug/mL#	91
73)	Phenanthrene	9.37	178	397093	2.42	ug/mL	100
74)	Anthracene	9.44	178	435475	2.54	ug/mL	99
75)	Carbazole	9.73	167	465745	2.61	ug/mL#	96
76)	Di-n-butyl phthalate	10.48	149	537944	2.64	ug/mL	99
77)	Parathion	10.83	97	43346	3.08	ug/mL#	69
78)	Fluoranthene	11.58	202	469825	2.51	ug/mL	98
79)	Benzidine	11.93	184	168682	3.80	ug/mL#	87
81)	Pyrene	12.03	202	499766	2.11	ug/mL	99
83)	Benzyl butyl phthalate	13.66	149	241434	2.57	ug/mL	95
84)	Bis(2-ethylhexyl) phthalat	15.06	149	312807	2.76	ug/mL#	97
85)	Benz (a) anthracene	14.68	228	453720	2.71	ug/mL	99
86)	3,3-Dichlorobenzidine	14.75	252	169336	2.90	ug/mL#	94
87)	Chrysene	14.77	228	432665	2.21	ug/mL	98
88)	Di-n-octyl phthalate	16.42	149	466353	3.53	ug/mL#	98
89)	Benzo(b)fluoranthene	17.04	252	419394m	2.93	ug/mL	
90)	Benzo(k)fluoranthene	17.09	252	497590	2.74	ug/mL	97
91)	Benzo(a)pyrene	17.68	252	434487m	3.14	ug/mL	
93)	Indeno(1,2,3-cd)pyrene	19.78	276	479267m	3.02	ug/mL	
94)	Dibenz(a,h)anthracene	19.81	278	370328m	3.78	ug/mL	
95)	Benzo(g,h,i)perylene	20.22	276	475200m	2.73	ug/mL	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627592.D Vial: 4
Acq On : 2 Dec 2019 10:45 am Operator: SR
Sample : SEQ-CAL2 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:30 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627593.D Vial: 5
Acq On : 2 Dec 2019 11:17 am Operator: SR
Sample : SEQ-CAL3 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:30 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1460646	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	5901263	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3351379	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	6285849	40.00	ug/mL	0.00
80) Chrysene-d12	14.72	240	5622346	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	6566125	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.98	112	268821	5.12	ug/mL	0.00
Spiked Amount 75.000	Range 15 - 87		Recovery = 6.83%#			
5) Phenol-d5	4.67	99	336494	5.01	ug/mL	0.00
Spiked Amount 75.000	Range 10 - 100		Recovery = 6.68%#			
22) Nitrobenzene-d5	5.34	82	263544	5.56	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 120		Recovery = 11.12%#			
45) 2-Fluorobiphenyl	6.70	172	613000	5.36	ug/mL	0.00
Spiked Amount 50.000	Range 29 - 120		Recovery = 10.72%#			
67) 2,4,6-Tribromophenol	8.33	330	74775	5.53	ug/mL	0.00
Spiked Amount 75.000	Range 35 - 126		Recovery = 7.37%#			
82) Terphenyl-d14	12.44	244	695135	4.89	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 127		Recovery = 9.78%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.93	74	173049	5.25	ug/mL#	95
3) Pyridine	2.97	79	274132m	5.30	ug/mL	
6) Benzaldehyde	4.61	105	228408	5.96	ug/mL	98
7) Aniline	4.70	93	402220	5.19	ug/mL	98
8) Phenol	4.67	94	376542	5.30	ug/mL	98
9) Bis(2-chloroethyl)ether	4.74	93	259197	5.11	ug/mL	99
10) 2-Chlorophenol	4.78	128	291903	5.11	ug/mL	98
11) 1,3-Dichlorobenzene	4.89	146	322888	5.06	ug/mL	98
12) 1,4-Dichlorobenzene	4.92	146	305533	4.98	ug/mL	95
13) Benzyl Alcohol	5.03	108	167524	5.20	ug/mL	96
14) 1,2-Dichlorobenzene	5.06	146	314602	5.28	ug/mL	97
15) 2-Methylphenol	5.11	107	273944	5.52	ug/mL	97
16) Acetophenone	5.23	105	369229	4.87	ug/mL	97
17) Bis(2-chloroisopropyl) eth	5.13	45	241326	5.46	ug/mL	97
18) N-Nitroso-di-n-propylamine	5.24	70	183358	5.21	ug/mL	95
19) 4-Methylphenol	5.21	107	392112	5.24	ug/mL	98
20) Hexachloroethane	5.29	117	122309	5.20	ug/mL	96
23) Nitrobenzene	5.36	77	297413	5.69	ug/mL	94
24) Isophorone	5.52	82	511497	5.24	ug/mL	99
25) 2-Nitrophenol	5.59	139	148319	6.02	ug/mL	96
26) 2,4-Dimethylphenol	5.59	122	279679	5.50	ug/mL	98
27) Bis(2-chloroethoxy) methan	5.67	93	325249	5.33	ug/mL	98
28) Benzoic acid	5.64	105	178917	5.79	ug/mL	94
29) 2,4-Dichlorophenol	5.75	162	240481	5.24	ug/mL	96
30) 1,2,4-Trichlorobenzene	5.81	180	248205	5.03	ug/mL	97
31) Alpha-Terpineol	5.84	59	236753	7.08	ug/mL#	1
32) Naphthalene	5.86	128	793671	5.27	ug/mL	97
33) 4-Chloroaniline	5.92	127	362933	5.29	ug/mL	98
34) Hexachlorobutadiene	5.98	225	139583	5.39	ug/mL	99
35) Caprolactam	6.16	113	101730	5.31	ug/mL#	74
36) 4-Chloro-3-methylphenol	6.26	107	259214	5.38	ug/mL	98
37) 1-Methylnaphthalene	6.48	141	536110	5.02	ug/mL	99
38) 2-Methylnaphthalene	6.38	142	550472	5.26	ug/mL	99
40) 1,2,4,5-tetrachlorobenzene	6.56	216	263123	5.71	ug/mL	99
41) Hexachlorocyclopentadiene	6.56	237	148119	5.73	ug/mL	97
42) Biphenyl	6.78	153	267915	4.72	ug/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627593.D Vial: 5
Acq On : 2 Dec 2019 11:17 am Operator: SR
Sample : SEQ-CAL3 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:30 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

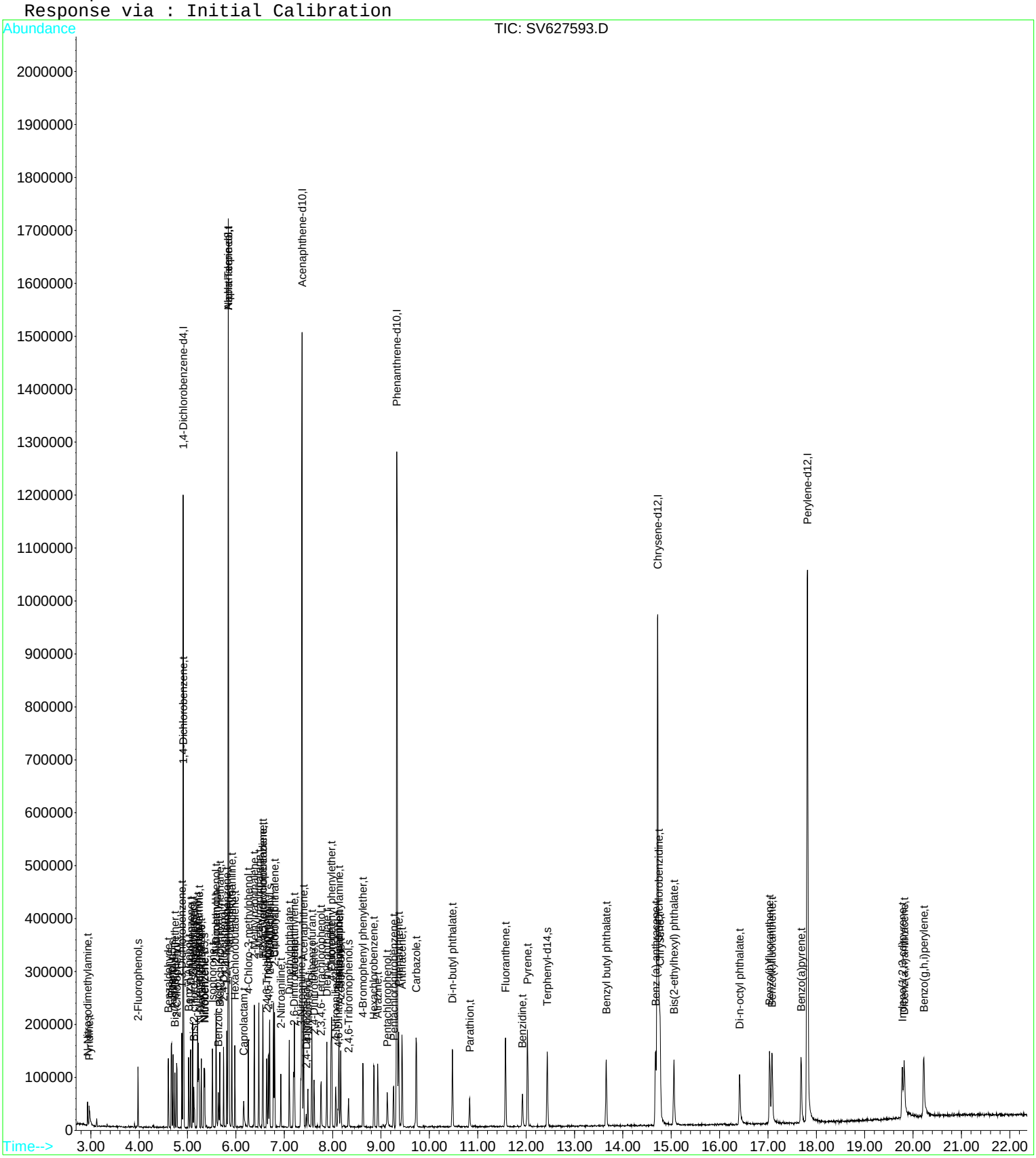
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 2,4,6-Trichlorophenol	6.64	196	165236	5.58	ug/mL	97
44) 2,4,5-Trichlorophenol	6.67	196	208839	5.32	ug/mL	97
46) 2-Chloronaphthalene	6.80	162	556165	5.20	ug/mL	98
47) 2-Nitroaniline	6.93	138	184448	5.33	ug/mL	99
48) Dimethylphthalate	7.11	163	644995	5.09	ug/mL	99
49) 2,6-Dinitrotoluene	7.19	165	126442	5.04	ug/mL	91
50) Acenaphthylene	7.21	152	916963	5.33	ug/mL	99
51) 3-Nitroaniline	7.34	138	162686	5.31	ug/mL#	88
52) Acenaphthene	7.40	154	513917	5.20	ug/mL	99
53) 2,4-Dinitrophenol	7.45	184	33938	5.18	ug/mL#	57
54) Dibenzofuran	7.57	168	792275	5.27	ug/mL	99
55) 2,4-Dinitrotoluene	7.62	165	161995	4.91	ug/mL#	92
56) 4-Nitrophenol	7.49	65	104376	5.40	ug/mL	98
57) 2,3,4,6-Tetrachlorophenol	7.76	131	56357	5.15	ug/mL#	92
58) Diethyl phthalate	7.88	149	639193	5.09	ug/mL	98
59) Fluorene	7.98	166	622375	5.15	ug/mL	99
60) 4-Chlorophenyl phenylether	7.97	204	288762	4.91	ug/mL	96
61) 4-Nitroaniline	8.07	138	171932	5.55	ug/mL	95
63) 4,6-Dinitro-2-methylphenol	8.11	198	55183	5.26	ug/mL#	67
64) Diphenylamine	8.13	169	466616	5.11	ug/mL	98
65) N-Nitrosodiphenylamine	8.13	167	157610	5.11	ug/mL	97
66) Azobenzene	8.17	77	603530	5.05	ug/mL	98
68) 4-Bromophenyl phenylether	8.63	248	177022	5.10	ug/mL	95
69) Atrazine	8.93	200	191008m	5.58	ug/mL	
70) Hexachlorobenzene	8.85	142	75946	4.93	ug/mL	99
71) Pentachlorophenol	9.13	266	104485	5.86	ug/mL#	92
72) Pentachloronitrobenzene	9.26	237	61192	4.86	ug/mL	95
73) Phenanthrene	9.37	178	872405	5.22	ug/mL	99
74) Anthracene	9.44	178	919636	5.26	ug/mL	99
75) Carbazole	9.73	167	947938	5.21	ug/mL#	100
76) Di-n-butyl phthalate	10.48	149	1140876	5.48	ug/mL	99
77) Parathion	10.83	97	79098	5.50	ug/mL#	93
78) Fluoranthene	11.58	202	1008629	5.27	ug/mL	99
79) Benzidine	11.93	184	378549	8.34	ug/mL	97
81) Pyrene	12.03	202	1090132	4.56	ug/mL	99
83) Benzyl butyl phthalate	13.66	149	504497	5.33	ug/mL	97
84) Bis(2-ethylhexyl) phthalat	15.06	149	673380	5.89	ug/mL	99
85) Benz (a) anthracene	14.68	228	953995	5.65	ug/mL	98
86) 3,3-Dichlorobenzidine	14.75	252	657497	11.17	ug/mL	98
87) Chrysene	14.77	228	930792	4.71	ug/mL	99
88) Di-n-octyl phthalate	16.42	149	1001967	7.53	ug/mL	99
89) Benzo(b)fluoranthene	17.04	252	853639	5.91	ug/mL	100
90) Benzo(k)fluoranthene	17.09	252	998991	5.46	ug/mL	98
91) Benzo(a)pyrene	17.69	252	841871	6.03	ug/mL	97
93) Indeno(1,2,3-cd)pyrene	19.78	276	992094m	6.20	ug/mL	
94) Dibenz(a,h)anthracene	19.82	278	722930m	7.33	ug/mL	
95) Benzo(g,h,i)perylene	20.22	276	961556m	5.49	ug/mL	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627593.D Vial: 5
Acq On : 2 Dec 2019 11:17 am Operator: SR
Sample : SEQ-CAL3 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:30 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627594.D Vial: 6
Acq On : 2 Dec 2019 11:50 am Operator: SR
Sample : SEQ-CAL4 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:16 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1412594	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	5719434	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3337734	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	6391933	40.00	ug/mL	0.00
80) Chrysene-d12	14.72	240	5712366	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	6642928	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.98	112	513357	10.10	ug/mL	0.00
Spiked Amount 75.000	Range 15 - 87		Recovery = 13.47%#			
5) Phenol-d5	4.67	99	650075	10.00	ug/mL	0.00
Spiked Amount 75.000	Range 10 - 100		Recovery = 13.33%			
22) Nitrobenzene-d5	5.34	82	525686	11.45	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 120		Recovery = 22.90%#			
45) 2-Fluorobiphenyl	6.70	172	1168369	10.25	ug/mL	0.00
Spiked Amount 50.000	Range 29 - 120		Recovery = 20.50%#			
67) 2,4,6-Tribromophenol	8.33	330	152741	11.12	ug/mL	0.00
Spiked Amount 75.000	Range 35 - 126		Recovery = 14.83%#			
82) Terphenyl-d14	12.44	244	1420177	9.83	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 127		Recovery = 19.66%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.93	74	331001	10.39	ug/mL#	91
3) Pyridine	2.96	79	526308	10.53	ug/mL#	74
6) Benzaldehyde	4.60	105	431713	11.66	ug/mL	98
7) Aniline	4.70	93	750902	10.02	ug/mL	99
8) Phenol	4.67	94	700800	10.21	ug/mL	99
9) Bis(2-chloroethyl)ether	4.74	93	499315	10.17	ug/mL	100
10) 2-Chlorophenol	4.78	128	581839	10.54	ug/mL	98
11) 1,3-Dichlorobenzene	4.89	146	645568	10.47	ug/mL	99
12) 1,4-Dichlorobenzene	4.92	146	607290	10.24	ug/mL	97
13) Benzyl Alcohol	5.03	108	326269	10.48	ug/mL	98
14) 1,2-Dichlorobenzene	5.06	146	590856	10.26	ug/mL	100
15) 2-Methylphenol	5.11	107	519515	10.82	ug/mL	98
16) Acetophenone	5.22	105	765738	10.43	ug/mL	99
17) Bis(2-chloroisopropyl) eth	5.13	45	446647	10.45	ug/mL	98
18) N-Nitroso-di-n-propylamine	5.24	70	375392	11.03	ug/mL	96
19) 4-Methylphenol	5.21	107	780858	10.78	ug/mL	99
20) Hexachloroethane	5.29	117	228054	10.03	ug/mL	95
23) Nitrobenzene	5.36	77	556875	11.00	ug/mL	96
24) Isophorone	5.52	82	996277	10.53	ug/mL	99
25) 2-Nitrophenol	5.59	139	287132	12.02	ug/mL	94
26) 2,4-Dimethylphenol	5.59	122	520125	10.55	ug/mL	96
27) Bis(2-chloroethoxy) methan	5.67	93	642403	10.86	ug/mL	97
28) Benzoic acid	5.65	105	425507	14.21	ug/mL	95
29) 2,4-Dichlorophenol	5.75	162	489276	11.01	ug/mL	100
30) 1,2,4-Trichlorobenzene	5.81	180	491754	10.29	ug/mL	96
31) Alpha-Terpineol	5.84	59	358928	11.07	ug/mL#	1
32) Naphthalene	5.86	128	1518285	10.41	ug/mL	99
33) 4-Chloroaniline	5.92	127	715769	10.76	ug/mL	99
34) Hexachlorobutadiene	5.98	225	270501	10.79	ug/mL	98
35) Caprolactam	6.16	113	200300	10.79	ug/mL#	73
36) 4-Chloro-3-methylphenol	6.26	107	508965	10.91	ug/mL	97
37) 1-Methylnaphthalene	6.47	141	1069581	10.33	ug/mL	99
38) 2-Methylnaphthalene	6.38	142	1082286	10.67	ug/mL	99
40) 1,2,4,5-tetrachlorobenzene	6.56	216	438369	9.55	ug/mL	99
41) Hexachlorocyclopentadiene	6.56	237	290024	11.27	ug/mL	99
42) Biphenyl	6.78	153	554151	9.80	ug/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627594.D Vial: 6
Acq On : 2 Dec 2019 11:50 am Operator: SR
Sample : SEQ-CAL4 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:16 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

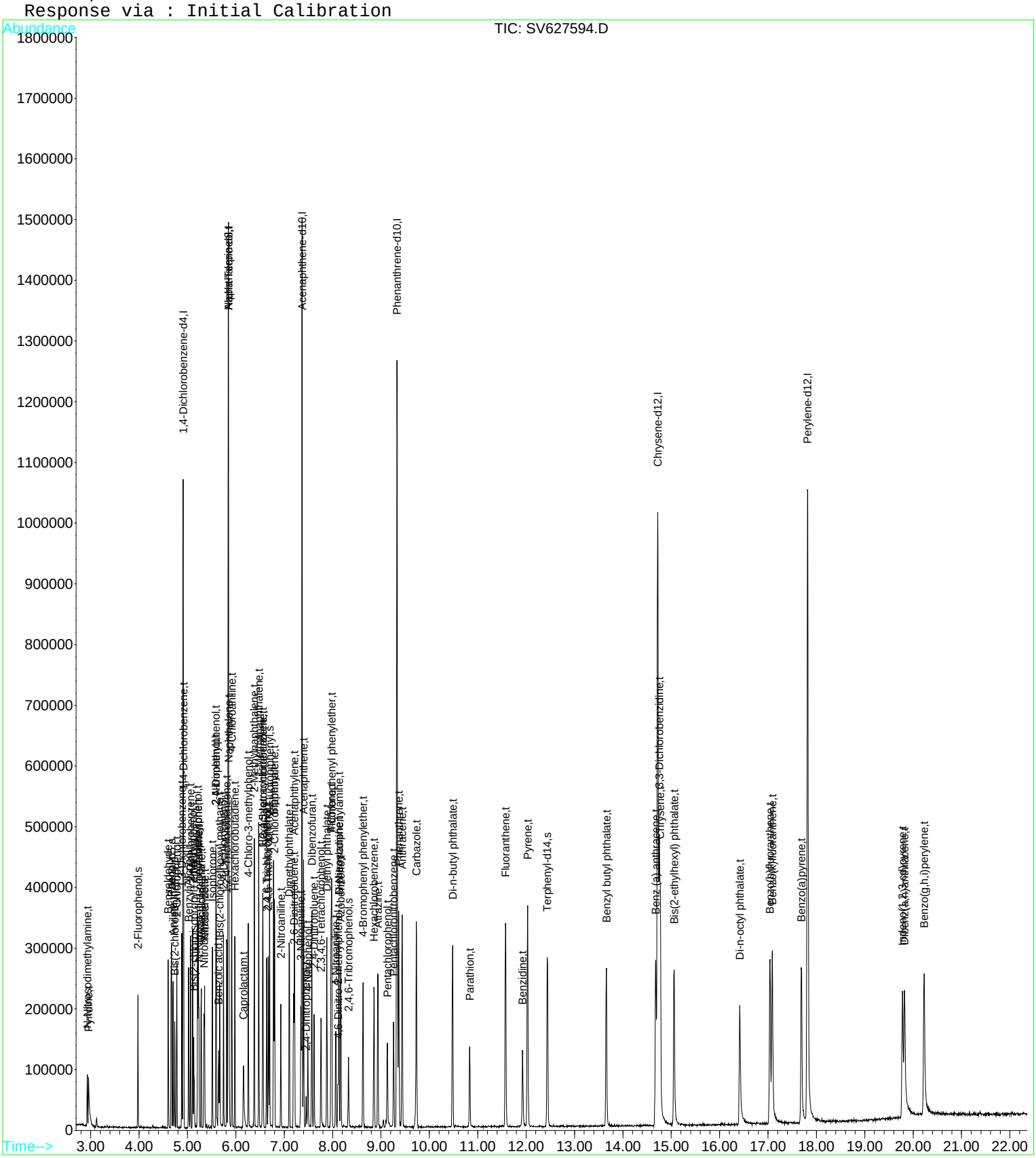
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 2,4,6-Trichlorophenol	6.64	196	326484	11.08	ug/mL	99
44) 2,4,5-Trichlorophenol	6.67	196	406101	10.39	ug/mL	95
46) 2-Chloronaphthalene	6.80	162	1067207	10.01	ug/mL	98
47) 2-Nitroaniline	6.93	138	379857	11.01	ug/mL	97
48) Dimethylphthalate	7.11	163	1258103	9.97	ug/mL	99
49) 2,6-Dinitrotoluene	7.20	165	267733	10.71	ug/mL	93
50) Acenaphthylene	7.21	152	1770905	10.33	ug/mL	100
51) 3-Nitroaniline	7.35	138	321988	10.55	ug/mL#	91
52) Acenaphthene	7.40	154	967222	9.82	ug/mL	98
53) 2,4-Dinitrophenol	7.45	184	85040	13.03	ug/mL	94
54) Dibenzofuran	7.57	168	1539232	10.28	ug/mL	99
55) 2,4-Dinitrotoluene	7.62	165	364223	11.08	ug/mL	97
56) 4-Nitrophenol	7.49	65	228430	11.86	ug/mL	96
57) 2,3,4,6-Tetrachlorophenol	7.76	131	115362	10.59	ug/mL#	97
58) Diethyl phthalate	7.88	149	1254193	10.02	ug/mL	98
59) Fluorene	7.98	166	1255845	10.44	ug/mL	98
60) 4-Chlorophenyl phenylether	7.97	204	591686	10.11	ug/mL	98
61) 4-Nitroaniline	8.07	138	339989	11.02	ug/mL	96
63) 4,6-Dinitro-2-methylphenol	8.11	198	119351	11.20	ug/mL	90
64) Diphenylamine	8.13	169	950183	10.24	ug/mL	98
65) N-Nitrosodiphenylamine	8.13	167	321530	10.26	ug/mL	98
66) Azobenzene	8.17	77	1190527	9.80	ug/mL	97
68) 4-Bromophenyl phenylether	8.63	248	372409	10.55	ug/mL	98
69) Atrazine	8.94	200	363692	10.45	ug/mL	93
70) Hexachlorobenzene	8.86	142	149987	9.58	ug/mL	98
71) Pentachlorophenol	9.13	266	212729	11.74	ug/mL	96
72) Pentachloronitrobenzene	9.26	237	137872	10.76	ug/mL	96
73) Phenanthrene	9.37	178	1743913	10.26	ug/mL	99
74) Anthracene	9.44	178	1803629	10.15	ug/mL	100
75) Carbazole	9.73	167	1916576	10.36	ug/mL#	100
76) Di-n-butyl phthalate	10.48	149	2323873	10.97	ug/mL	99
77) Parathion	10.83	97	182416	12.48	ug/mL#	95
78) Fluoranthene	11.58	202	2049542	10.54	ug/mL	99
79) Benzidine	11.93	184	762857	16.54	ug/mL	98
81) Pyrene	12.03	202	2122353	8.74	ug/mL	99
83) Benzyl butyl phthalate	13.66	149	1016957	10.57	ug/mL	97
84) Bis(2-ethylhexyl) phthalat	15.06	149	1354175	11.66	ug/mL	98
85) Benz (a) anthracene	14.68	228	1871092	10.91	ug/mL	99
86) 3,3-Dichlorobenzidine	14.75	252	1422982	23.80	ug/mL	100
87) Chrysene	14.78	228	1889551	9.41	ug/mL	99
88) Di-n-octyl phthalate	16.42	149	2104531	15.57	ug/mL	100
89) Benzo(b)fluoranthene	17.04	252	1715770	11.70	ug/mL	99
90) Benzo(k)fluoranthene	17.09	252	2068883	11.13	ug/mL	99
91) Benzo(a)pyrene	17.69	252	1703750	12.02	ug/mL	97
93) Indeno(1,2,3-cd)pyrene	19.78	276	1999059m	12.35	ug/mL	
94) Dibenz(a,h)anthracene	19.82	278	1375438	13.78	ug/mL	97
95) Benzo(g,h,i)perylene	20.23	276	1934970m	10.93	ug/mL	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627594.D Vial: 6
Acq On : 2 Dec 2019 11:50 am Operator: SR
Sample : SEQ-CAL4 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:16 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627595.D Vial: 7
Acq On : 2 Dec 2019 12:23 pm Operator: SR
Sample : SEQ-CAL5 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:16 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1414479	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	5822326	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3354269	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	6336651	40.00	ug/mL	0.00
80) Chrysene-d12	14.72	240	5741730	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	6618312	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.98	112	804637	15.81	ug/mL	0.00
Spiked Amount 75.000	Range 15 - 87		Recovery = 21.08%			
5) Phenol-d5	4.67	99	1015843	15.61	ug/mL	0.00
Spiked Amount 75.000	Range 10 - 100		Recovery = 20.81%			
22) Nitrobenzene-d5	5.34	82	780941	16.71	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 120		Recovery = 33.42%			
45) 2-Fluorobiphenyl	6.70	172	1750990	15.29	ug/mL	0.00
Spiked Amount 50.000	Range 29 - 120		Recovery = 30.58%			
67) 2,4,6-Tribromophenol	8.33	330	251280	18.45	ug/mL	0.00
Spiked Amount 75.000	Range 35 - 126		Recovery = 24.60%#			
82) Terphenyl-d14	12.44	244	2150154	14.81	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 127		Recovery = 29.62%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.93	74	501970	15.74	ug/mL	92
3) Pyridine	2.95	79	830986m	16.60	ug/mL	
6) Benzaldehyde	4.60	105	597783	16.12	ug/mL	97
7) Aniline	4.70	93	1169683	15.59	ug/mL	99
8) Phenol	4.67	94	1064694	15.49	ug/mL	100
9) Bis(2-chloroethyl)ether	4.74	93	770299	15.67	ug/mL	98
10) 2-Chlorophenol	4.78	128	900842	16.30	ug/mL	98
11) 1,3-Dichlorobenzene	4.89	146	961567	15.57	ug/mL	99
12) 1,4-Dichlorobenzene	4.92	146	916766	15.44	ug/mL	98
13) Benzyl Alcohol	5.02	108	490563	15.74	ug/mL	95
14) 1,2-Dichlorobenzene	5.06	146	908802	15.75	ug/mL	99
15) 2-Methylphenol	5.11	107	762995	15.87	ug/mL	98
16) Acetophenone	5.22	105	1106582	15.06	ug/mL	98
17) Bis(2-chloroisopropyl) eth	5.13	45	691498	16.16	ug/mL	100
18) N-Nitroso-di-n-propylamine	5.24	70	554526	16.28	ug/mL	96
19) 4-Methylphenol	5.21	107	1177335	16.24	ug/mL	99
20) Hexachloroethane	5.29	117	357810	15.72	ug/mL	97
23) Nitrobenzene	5.36	77	832745	16.15	ug/mL	97
24) Isophorone	5.52	82	1553814	16.13	ug/mL	99
25) 2-Nitrophenol	5.59	139	461323	18.97	ug/mL	98
26) 2,4-Dimethylphenol	5.59	122	823333	16.41	ug/mL	99
27) Bis(2-chloroethoxy) methan	5.67	93	981976	16.31	ug/mL	99
28) Benzoic acid	5.65	105	657562	21.58	ug/mL	98
29) 2,4-Dichlorophenol	5.75	162	750290	16.58	ug/mL	98
30) 1,2,4-Trichlorobenzene	5.81	180	762045	15.66	ug/mL	99
31) Alpha-Terpineol	5.84	59	517658	15.69	ug/mL#	1
32) Naphthalene	5.86	128	2248789	15.14	ug/mL	99
33) 4-Chloroaniline	5.92	127	1074517	15.86	ug/mL	99
34) Hexachlorobutadiene	5.98	225	410172	16.07	ug/mL	98
35) Caprolactam	6.16	113	308561	16.34	ug/mL#	76
36) 4-Chloro-3-methylphenol	6.26	107	768907	16.19	ug/mL	98
37) 1-Methylnaphthalene	6.47	141	1609247	15.27	ug/mL	99
38) 2-Methylnaphthalene	6.38	142	1656610	16.04	ug/mL	99
40) 1,2,4,5-tetrachlorobenzene	6.55	216	743132	16.11	ug/mL	98
41) Hexachlorocyclopentadiene	6.56	237	441068	17.05	ug/mL	99
42) Biphenyl	6.78	153	809894	14.25	ug/mL	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627595.D Vial: 7
Acq On : 2 Dec 2019 12:23 pm Operator: SR
Sample : SEQ-CAL5 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:16 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

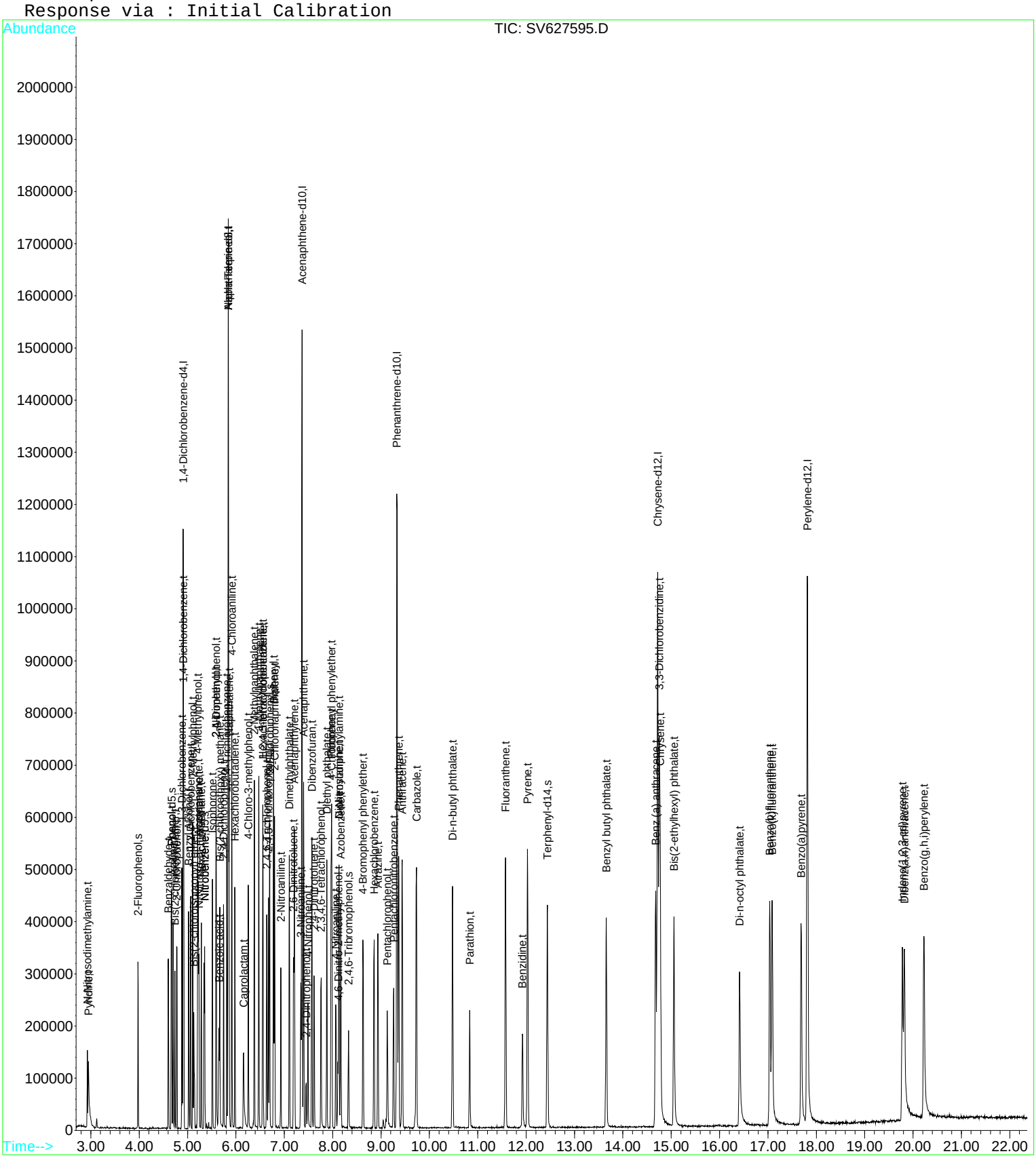
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 2,4,6-Trichlorophenol	6.64	196	504111	17.02	ug/mL	99
44) 2,4,5-Trichlorophenol	6.67	196	634545	16.16	ug/mL	96
46) 2-Chloronaphthalene	6.80	162	1602960	14.97	ug/mL	99
47) 2-Nitroaniline	6.93	138	581453	16.78	ug/mL	97
48) Dimethylphthalate	7.11	163	1960776	15.46	ug/mL	100
49) 2,6-Dinitrotoluene	7.19	165	421642	16.79	ug/mL	97
50) Acenaphthylene	7.21	152	2689498	15.62	ug/mL	99
51) 3-Nitroaniline	7.34	138	522754	17.05	ug/mL	98
52) Acenaphthene	7.40	154	1537435	15.54	ug/mL	99
53) 2,4-Dinitrophenol	7.45	184	138605	21.13	ug/mL	98
54) Dibenzofuran	7.57	168	2372610	15.76	ug/mL	99
55) 2,4-Dinitrotoluene	7.62	165	565716	17.13	ug/mL	97
56) 4-Nitrophenol	7.49	65	348518	18.01	ug/mL	97
57) 2,3,4,6-Tetrachlorophenol	7.76	131	191525	17.50	ug/mL	92
58) Diethyl phthalate	7.88	149	1941764	15.44	ug/mL	100
59) Fluorene	7.98	166	1859024	15.37	ug/mL	98
60) 4-Chlorophenyl phenylether	7.97	204	941963	16.01	ug/mL	98
61) 4-Nitroaniline	8.07	138	528197	17.03	ug/mL	96
63) 4,6-Dinitro-2-methylphenol	8.11	198	210419	19.91	ug/mL	97
64) Diphenylamine	8.13	169	1435508	15.60	ug/mL	99
65) N-Nitrosodiphenylamine	8.13	167	484764	15.60	ug/mL	99
66) Azobenzene	8.17	77	1807862	15.01	ug/mL	98
68) 4-Bromophenyl phenylether	8.63	248	570724	16.32	ug/mL	98
69) Atrazine	8.94	200	545964	15.82	ug/mL	96
70) Hexachlorobenzene	8.86	142	237304	15.28	ug/mL	96
71) Pentachlorophenol	9.13	266	337079	18.76	ug/mL	93
72) Pentachloronitrobenzene	9.26	237	203228	16.00	ug/mL	99
73) Phenanthrene	9.37	178	2631264	15.61	ug/mL	99
74) Anthracene	9.44	178	2756863	15.64	ug/mL	99
75) Carbazole	9.73	167	2890885	15.76	ug/mL#	96
76) Di-n-butyl phthalate	10.48	149	3504185	16.69	ug/mL	99
77) Parathion	10.83	97	294075	20.29	ug/mL#	96
78) Fluoranthene	11.58	202	3131758	16.25	ug/mL	99
79) Benzidine	11.93	184	1148458	25.11	ug/mL	100
81) Pyrene	12.03	202	3297042	13.51	ug/mL	100
83) Benzyl butyl phthalate	13.66	149	1561820	16.15	ug/mL	97
84) Bis(2-ethylhexyl) phthalat	15.06	149	2133952	18.29	ug/mL	99
85) Benz (a) anthracene	14.68	228	2949817	17.12	ug/mL	98
86) 3,3-Dichlorobenzidine	14.75	252	2218367	36.92	ug/mL	99
87) Chrysene	14.77	228	2898893	14.36	ug/mL	99
88) Di-n-octyl phthalate	16.42	149	3282339	24.16	ug/mL	99
89) Benzo(b)fluoranthene	17.04	252	2701958	18.33	ug/mL	99
90) Benzo(k)fluoranthene	17.09	252	3246413	17.37	ug/mL	98
91) Benzo(a)pyrene	17.69	252	2593779	18.20	ug/mL	98
93) Indeno(1,2,3-cd)pyrene	19.78	276	3124529	19.37	ug/mL#	89
94) Dibenz(a,h)anthracene	19.82	278	2195323	22.07	ug/mL	97
95) Benzo(g,h,i)perylene	20.23	276	2748664	15.58	ug/mL	95

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627595.D Vial: 7
Acq On : 2 Dec 2019 12:23 pm Operator: SR
Sample : SEQ-CAL5 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:16 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627596.D Vial: 8
Acq On : 2 Dec 2019 12:56 pm Operator: SR
Sample : SEQ-CAL6 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:28 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1356616	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	5634254	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3234567	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	6230670	40.00	ug/mL	0.00
80) Chrysene-d12	14.72	240	5586699	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	6500970	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.98	112	1083406	22.20	ug/mL	0.00
Spiked Amount 75.000	Range 15 - 87		Recovery = 29.60%			
5) Phenol-d5	4.67	99	1391713	22.29	ug/mL	0.00
Spiked Amount 75.000	Range 10 - 100		Recovery = 29.72%			
22) Nitrobenzene-d5	5.34	82	1012972	22.39	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 120		Recovery = 44.78%			
45) 2-Fluorobiphenyl	6.70	172	2282971	20.67	ug/mL	0.00
Spiked Amount 50.000	Range 29 - 120		Recovery = 41.34%			
67) 2,4,6-Tribromophenol	8.33	330	339167	25.32	ug/mL	0.00
Spiked Amount 75.000	Range 35 - 126		Recovery = 33.76%#			
82) Terphenyl-d14	12.44	244	2852706	20.19	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 127		Recovery = 40.38%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.93	74	673553	22.01	ug/mL	98
3) Pyridine	2.95	79	1098166m	22.87	ug/mL	
6) Benzaldehyde	4.60	105	717847m	20.18	ug/mL	
7) Aniline	4.70	93	1531847	21.29	ug/mL	97
8) Phenol	4.68	94	1426741	21.64	ug/mL	99
9) Bis(2-chloroethyl)ether	4.74	93	994359	21.09	ug/mL	100
10) 2-Chlorophenol	4.78	128	1175888	22.18	ug/mL	98
11) 1,3-Dichlorobenzene	4.89	146	1265386	21.37	ug/mL	98
12) 1,4-Dichlorobenzene	4.92	146	1219848	21.42	ug/mL	97
13) Benzyl Alcohol	5.03	108	667133	22.31	ug/mL	99
14) 1,2-Dichlorobenzene	5.06	146	1221399	22.07	ug/mL	98
15) 2-Methylphenol	5.11	107	1026951	22.28	ug/mL	98
16) Acetophenone	5.23	105	1459417	20.71	ug/mL	100
17) Bis(2-chloroisopropyl) eth	5.13	45	904530	22.04	ug/mL	99
18) N-Nitroso-di-n-propylamine	5.24	70	709633	21.72	ug/mL	99
19) 4-Methylphenol	5.21	107	1547713	22.26	ug/mL	99
20) Hexachloroethane	5.29	117	451355	20.68	ug/mL	96
23) Nitrobenzene	5.36	77	1054252	21.13	ug/mL	98
24) Isophorone	5.52	82	1992039	21.37	ug/mL	99
25) 2-Nitrophenol	5.59	139	632222	26.86	ug/mL	99
26) 2,4-Dimethylphenol	5.60	122	1086052	22.37	ug/mL	99
27) Bis(2-chloroethoxy) methan	5.67	93	1282494	22.01	ug/mL	99
28) Benzoic acid	5.66	105	888800	30.14	ug/mL	98
29) 2,4-Dichlorophenol	5.75	162	977945	22.33	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.81	180	1021465	21.70	ug/mL	99
31) Alpha-Terpineol	5.84	59	658866	20.63	ug/mL	47
32) Naphthalene	5.86	128	3078112	21.42	ug/mL	100
33) 4-Chloroaniline	5.92	127	1449767	22.12	ug/mL	99
34) Hexachlorobutadiene	5.98	225	535739	21.69	ug/mL	97
35) Caprolactam	6.16	113	409885	22.42	ug/mL#	78
36) 4-Chloro-3-methylphenol	6.26	107	1007746	21.93	ug/mL	100
37) 1-Methylnaphthalene	6.47	141	2122976	20.81	ug/mL	99
38) 2-Methylnaphthalene	6.38	142	2132306	21.34	ug/mL	99
40) 1,2,4,5-tetrachlorobenzene	6.56	216	945659	21.26	ug/mL	98
41) Hexachlorocyclopentadiene	6.56	237	611069	24.50	ug/mL	98
42) Biphenyl	6.78	153	1093302	19.95	ug/mL	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627596.D Vial: 8
Acq On : 2 Dec 2019 12:56 pm Operator: SR
Sample : SEQ-CAL6 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:28 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

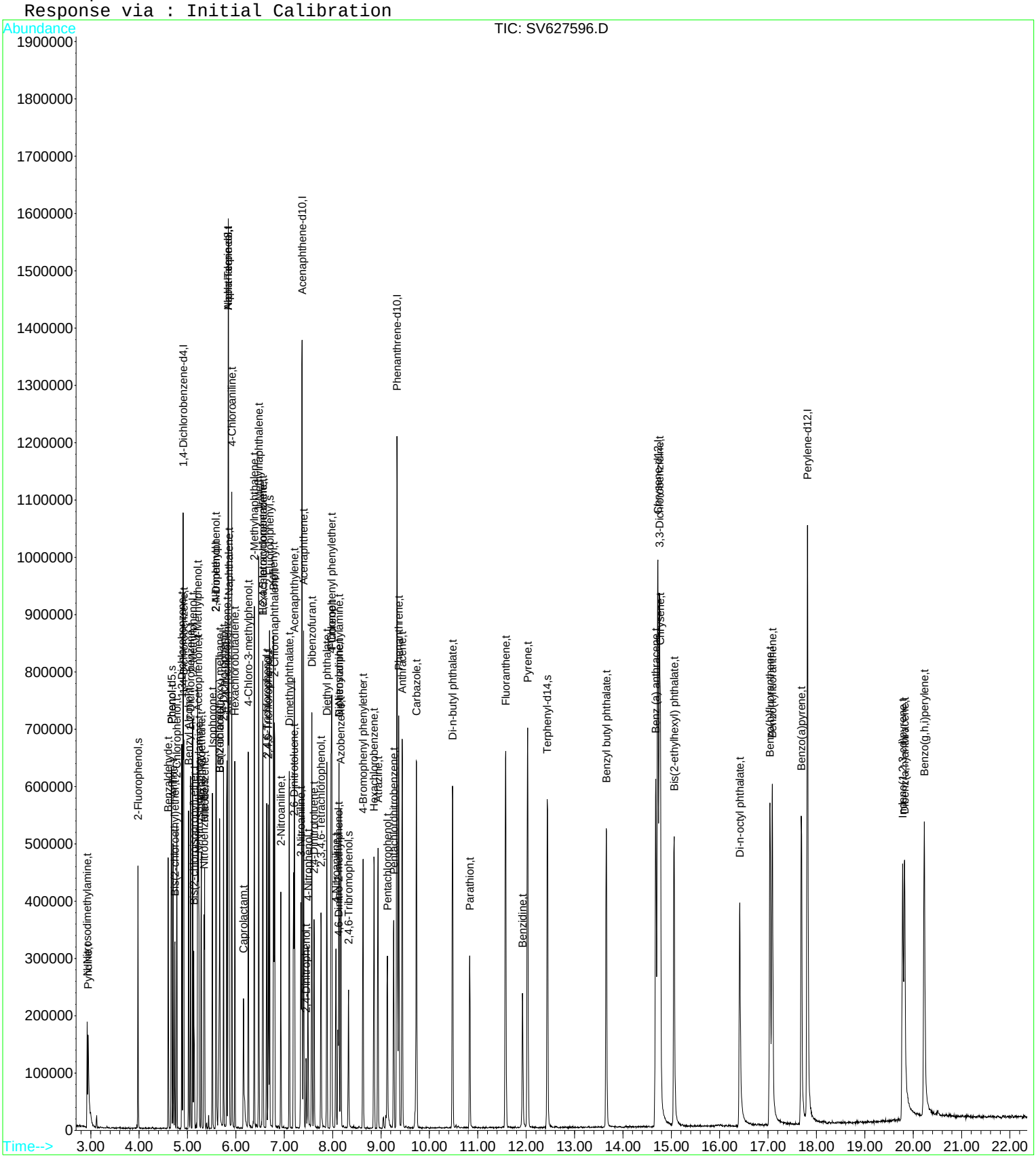
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2,4,6-Trichlorophenol	6.64	196	682135	23.88 ug/mL	99
44) 2,4,5-Trichlorophenol	6.67	196	846825	22.36 ug/mL	96
46) 2-Chloronaphthalene	6.80	162	2130238	20.63 ug/mL	96
47) 2-Nitroaniline	6.93	138	798831	23.90 ug/mL	98
48) Dimethylphthalate	7.11	163	2569681	21.01 ug/mL	100
49) 2,6-Dinitrotoluene	7.19	165	595920	24.61 ug/mL	99
50) Acenaphthylene	7.21	152	3506295	21.11 ug/mL	100
51) 3-Nitroaniline	7.34	138	708273	23.95 ug/mL	99
52) Acenaphthene	7.40	154	2024571	21.22 ug/mL	99
53) 2,4-Dinitrophenol	7.45	184	182086	28.79 ug/mL	94
54) Dibenzofuran	7.57	168	3127907	21.55 ug/mL	100
55) 2,4-Dinitrotoluene	7.62	165	760195	23.87 ug/mL	96
56) 4-Nitrophenol	7.49	65	447117	23.95 ug/mL	99
57) 2,3,4,6-Tetrachlorophenol	7.76	131	243738	23.09 ug/mL	99
58) Diethyl phthalate	7.88	149	2517675	20.76 ug/mL	99
59) Fluorene	7.98	166	2438541	20.91 ug/mL	99
60) 4-Chlorophenyl phenylether	7.97	204	1214998	21.42 ug/mL	98
61) 4-Nitroaniline	8.07	138	720687	24.09 ug/mL	98
63) 4,6-Dinitro-2-methylphenol	8.11	198	283632	27.30 ug/mL	97
64) Diphenylamine	8.13	169	1857330	20.52 ug/mL	99
65) N-Nitrosodiphenylamine	8.13	167	641776	21.01 ug/mL	99
66) Azobenzene	8.17	77	2341658	19.77 ug/mL	98
68) 4-Bromophenyl phenylether	8.63	248	752091	21.87 ug/mL	98
69) Atrazine	8.94	200	702603	20.71 ug/mL	99
70) Hexachlorobenzene	8.86	142	295729	19.37 ug/mL	95
71) Pentachlorophenol	9.13	266	443691	25.12 ug/mL	92
72) Pentachloronitrobenzene	9.27	237	290793	23.29 ug/mL	96
73) Phenanthrene	9.37	178	3504980	21.15 ug/mL	100
74) Anthracene	9.44	178	3639082	21.00 ug/mL	100
75) Carbazole	9.73	167	3757842	20.83 ug/mL#	96
76) Di-n-butyl phthalate	10.48	149	4643406	22.49 ug/mL	100
77) Parathion	10.83	97	404371	28.38 ug/mL#	97
78) Fluoranthene	11.58	202	4164655	21.97 ug/mL	100
79) Benzidine	11.93	184	1498354	33.32 ug/mL	99
81) Pyrene	12.03	202	4381513	18.46 ug/mL	99
83) Benzyl butyl phthalate	13.66	149	2139064	22.73 ug/mL	100
84) Bis(2-ethylhexyl) phthalat	15.06	149	2825481	24.89 ug/mL	99
85) Benz (a) anthracene	14.68	228	3979836	23.74 ug/mL	99
86) 3,3-Dichlorobenzidine	14.76	252	2901583	49.63 ug/mL	99
87) Chrysene	14.78	228	3770764	19.20 ug/mL	99
88) Di-n-octyl phthalate	16.42	149	4398103	33.27 ug/mL	99
89) Benzo(b)fluoranthene	17.04	252	3658056	25.50 ug/mL	99
90) Benzo(k)fluoranthene	17.09	252	4468389	24.57 ug/mL	98
91) Benzo(a)pyrene	17.69	252	3449203	24.88 ug/mL	99
93) Indeno(1,2,3-cd)pyrene	19.78	276	4119616	26.00 ug/mL#	96
94) Dibenz(a,h)anthracene	19.82	278	3059410	31.31 ug/mL	93
95) Benzo(g,h,i)perylene	20.23	276	3945268	22.77 ug/mL	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627596.D Vial: 8
Acq On : 2 Dec 2019 12:56 pm Operator: SR
Sample : SEQ-CAL6 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:28 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627597.D Vial: 9
Acq On : 2 Dec 2019 1:28 pm Operator: SR
Sample : SEQ-CAL7 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:22 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1328300	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	5575666	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3079971	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	6034264	40.00	ug/mL	0.00
80) Chrysene-d12	14.72	240	5420955	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	6173702	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.98	112	1570867	32.87	ug/mL	0.00
Spiked Amount 75.000	Range 15 - 87		Recovery = 43.83%			
5) Phenol-d5	4.67	99	1998288	32.69	ug/mL	0.00
Spiked Amount 75.000	Range 10 - 100		Recovery = 43.59%			
22) Nitrobenzene-d5	5.34	82	1500707	33.52	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 120		Recovery = 67.04%			
45) 2-Fluorobiphenyl	6.70	172	3290765	31.29	ug/mL	0.00
Spiked Amount 50.000	Range 29 - 120		Recovery = 62.58%			
67) 2,4,6-Tribromophenol	8.33	330	503701	38.83	ug/mL	0.00
Spiked Amount 75.000	Range 35 - 126		Recovery = 51.77%			
82) Terphenyl-d14	12.44	244	4252050	31.01	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 127		Recovery = 62.02%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.93	74	935803	31.24	ug/mL	100
3) Pyridine	2.94	79	1682365m	35.78	ug/mL	
6) Benzaldehyde	4.60	105	901954m	25.90	ug/mL	
7) Aniline	4.71	93	2147192	30.48	ug/mL	99
8) Phenol	4.68	94	2062230	31.94	ug/mL	100
9) Bis(2-chloroethyl)ether	4.74	93	1409801	30.54	ug/mL	100
10) 2-Chlorophenol	4.78	128	1658076	31.95	ug/mL	100
11) 1,3-Dichlorobenzene	4.89	146	1810439	31.22	ug/mL	100
12) 1,4-Dichlorobenzene	4.92	146	1709332	30.66	ug/mL	100
13) Benzyl Alcohol	5.03	108	970434	33.15	ug/mL	100
14) 1,2-Dichlorobenzene	5.07	146	1682600	31.06	ug/mL	100
15) 2-Methylphenol	5.11	107	1439070	31.88	ug/mL	100
16) Acetophenone	5.23	105	2074078	30.06	ug/mL	100
17) Bis(2-chloroisopropyl) eth	5.13	45	1279100	31.83	ug/mL	100
18) N-Nitroso-di-n-propylamine	5.24	70	1008450	31.52	ug/mL	100
19) 4-Methylphenol	5.21	107	2176353	31.96	ug/mL	100
20) Hexachloroethane	5.29	117	669150	31.31	ug/mL	100
23) Nitrobenzene	5.36	77	1527865	30.94	ug/mL	100
24) Isophorone	5.52	82	2848616	30.88	ug/mL	100
25) 2-Nitrophenol	5.59	139	893680	38.37	ug/mL	100
26) 2,4-Dimethylphenol	5.60	122	1526641	31.77	ug/mL	100
27) Bis(2-chloroethoxy) methan	5.67	93	1781395	30.89	ug/mL	100
28) Benzoic acid	5.66	105	1369649	46.93	ug/mL	99
29) 2,4-Dichlorophenol	5.75	162	1420259	32.77	ug/mL	100
30) 1,2,4-Trichlorobenzene	5.81	180	1463395	31.41	ug/mL	100
31) Alpha-Terpineol	5.84	59	864502	27.36	ug/mL	100
32) Naphthalene	5.86	128	4292945	30.18	ug/mL	100
33) 4-Chloroaniline	5.92	127	2019445	31.13	ug/mL	100
34) Hexachlorobutadiene	5.98	225	802945	32.84	ug/mL	100
35) Caprolactam	6.16	113	458325	25.34	ug/mL#	77
36) 4-Chloro-3-methylphenol	6.26	107	1412948	31.06	ug/mL	100
37) 1-Methylnaphthalene	6.47	141	3045327	30.17	ug/mL	99
38) 2-Methylnaphthalene	6.38	142	3086307	31.21	ug/mL	100
40) 1,2,4,5-tetrachlorobenzene	6.56	216	1319778	31.17	ug/mL	100
41) Hexachlorocyclopentadiene	6.56	237	864682	36.41	ug/mL	100
42) Biphenyl	6.78	153	1554077	29.79	ug/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627597.D Vial: 9
Acq On : 2 Dec 2019 1:28 pm Operator: SR
Sample : SEQ-CAL7 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:22 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

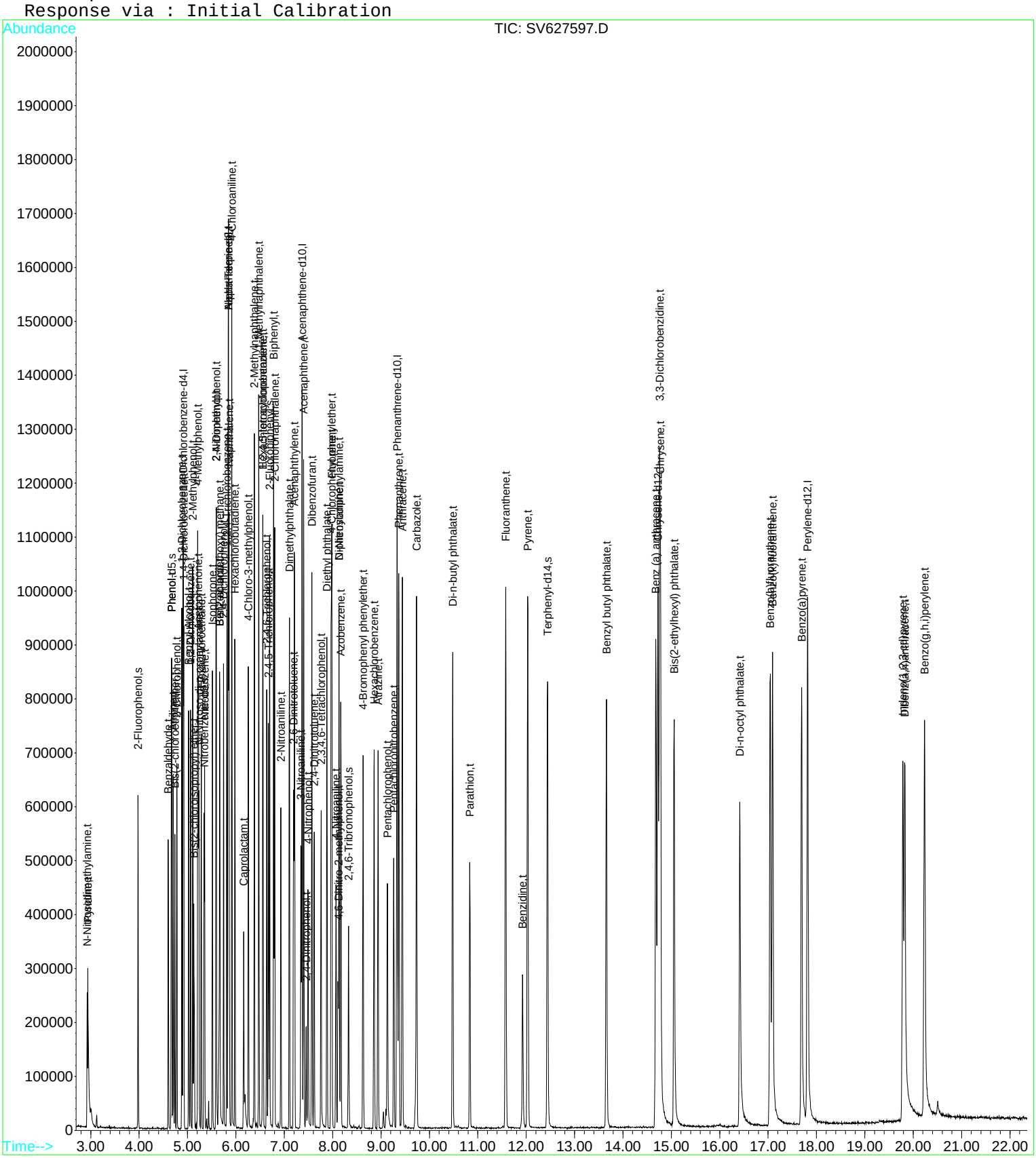
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 2,4,6-Trichlorophenol	6.64	196	979817	36.03	ug/mL	100
44) 2,4,5-Trichlorophenol	6.67	196	1219338	33.81	ug/mL	100
46) 2-Chloronaphthalene	6.80	162	3040404	30.92	ug/mL	100
47) 2-Nitroaniline	6.93	138	1158780	36.41	ug/mL	100
48) Dimethylphthalate	7.11	163	3690581	31.70	ug/mL	100
49) 2,6-Dinitrotoluene	7.19	165	852679	36.98	ug/mL	100
50) Acenaphthylene	7.21	152	4965665	31.40	ug/mL	100
51) 3-Nitroaniline	7.35	138	1028721	36.53	ug/mL	100
52) Acenaphthene	7.40	154	2861058	31.49	ug/mL	100
53) 2,4-Dinitrophenol	7.45	184	313396	52.03	ug/mL	97
54) Dibenzofuran	7.57	168	4420678	31.98	ug/mL	100
55) 2,4-Dinitrotoluene	7.62	165	1179284	38.89	ug/mL	100
56) 4-Nitrophenol	7.49	65	652108	36.69	ug/mL	99
57) 2,3,4,6-Tetrachlorophenol	7.76	131	357330	35.55	ug/mL	97
58) Diethyl phthalate	7.88	149	3668224	31.77	ug/mL	100
59) Fluorene	7.98	166	3534689	31.84	ug/mL	100
60) 4-Chlorophenyl phenylether	7.97	204	1774934	32.86	ug/mL	100
61) 4-Nitroaniline	8.07	138	1023730	35.94	ug/mL	100
63) 4,6-Dinitro-2-methylphenol	8.11	198	484766	48.18	ug/mL	100
64) Diphenylamine	8.13	169	2737132	31.23	ug/mL	100
65) N-Nitrosodiphenylamine	8.13	167	937498	31.69	ug/mL	100
66) Azobenzene	8.17	77	3386502	29.52	ug/mL	100
68) 4-Bromophenyl phenylether	8.63	248	1097128	32.94	ug/mL	100
69) Atrazine	8.94	200	1014305	30.87	ug/mL	100
70) Hexachlorobenzene	8.86	142	450805	30.49	ug/mL	100
71) Pentachlorophenol	9.13	266	718997	42.03	ug/mL	100
72) Pentachloronitrobenzene	9.26	237	392125	32.43	ug/mL	100
73) Phenanthrene	9.37	178	5124086	31.92	ug/mL	100
74) Anthracene	9.44	178	5346351	31.86	ug/mL	100
75) Carbazole	9.74	167	5474869	31.34	ug/mL#	100
76) Di-n-butyl phthalate	10.48	149	6743777	33.73	ug/mL	100
77) Parathion	10.84	97	630042	45.65	ug/mL#	100
78) Fluoranthene	11.58	202	6045694	32.93	ug/mL	100
79) Benzidine	11.93	184	1776585	40.80	ug/mL	100
81) Pyrene	12.03	202	6336439	27.51	ug/mL	100
83) Benzyl butyl phthalate	13.66	149	3143321	34.42	ug/mL	100
84) Bis(2-ethylhexyl) phthalat	15.06	149	4170691	37.86	ug/mL	100
85) Benz (a) anthracene	14.68	228	5767563	35.45	ug/mL	100
86) 3,3-Dichlorobenzidine	14.76	252	3958540	69.78	ug/mL	100
87) Chrysene	14.78	228	5641580	29.60	ug/mL	100
88) Di-n-octyl phthalate	16.42	149	6430227	50.13	ug/mL	100
89) Benzo(b)fluoranthene	17.05	252	5367657	38.56	ug/mL	100
90) Benzo(k)fluoranthene	17.10	252	6277994	35.57	ug/mL	99
91) Benzo(a)pyrene	17.70	252	5504787	40.91	ug/mL	98
93) Indeno(1,2,3-cd)pyrene	19.79	276	6312213m	41.95	ug/mL	
94) Dibenz(a,h)anthracene	19.83	278	4187248	45.13	ug/mL	99
95) Benzo(g,h,i)perylene	20.24	276	5795202	35.22	ug/mL	96

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627597.D Vial: 9
Acq On : 2 Dec 2019 1:28 pm Operator: SR
Sample : SEQ-CAL7 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:22 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627598.D Vial: 10
Acq On : 2 Dec 2019 2:00 pm Operator: SR
Sample : SEQ-CAL8 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:28 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1432382	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	6063285	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3293163	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	6360912	40.00	ug/mL	0.00
80) Chrysene-d12	14.73	240	5619451	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	6577538	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.98	112	2267331	44.00	ug/mL	0.00
Spiked Amount 75.000	Range 15 - 87		Recovery = 58.67%			
5) Phenol-d5	4.67	99	2799673	42.48	ug/mL	0.00
Spiked Amount 75.000	Range 10 - 100		Recovery = 56.64%			
22) Nitrobenzene-d5	5.34	82	2009132	41.27	ug/mL	0.00
Spiked Amount 50.000	Range 26 - 120		Recovery = 82.54%			
45) 2-Fluorobiphenyl	6.70	172	4489653	39.93	ug/mL	0.00
Spiked Amount 50.000	Range 29 - 120		Recovery = 79.86%			
67) 2,4,6-Tribromophenol	8.33	330	753659	55.11	ug/mL	0.00
Spiked Amount 75.000	Range 35 - 126		Recovery = 73.48%			
82) Terphenyl-d14	12.44	244	5811752	40.89	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 127		Recovery = 81.78%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.93	74	1386901	42.93	ug/mL	99
3) Pyridine	2.94	79	2234919m	44.08	ug/mL	
6) Benzaldehyde	4.60	105	1093154m	29.11	ug/mL	
7) Aniline	4.71	93	3003840	39.54	ug/mL	99
8) Phenol	4.68	94	2864603	41.14	ug/mL	99
9) Bis(2-chloroethyl)ether	4.74	93	2028008	40.74	ug/mL	98
10) 2-Chlorophenol	4.78	128	2431354	43.44	ug/mL	99
11) 1,3-Dichlorobenzene	4.89	146	2511923	40.17	ug/mL	98
12) 1,4-Dichlorobenzene	4.92	146	2416252	40.19	ug/mL	99
13) Benzyl Alcohol	5.03	108	1403686	44.46	ug/mL	98
14) 1,2-Dichlorobenzene	5.07	146	2352727	40.27	ug/mL	98
15) 2-Methylphenol	5.11	107	2063078	42.38	ug/mL	99
16) Acetophenone	5.23	105	2801757	37.65	ug/mL	99
17) Bis(2-chloroisopropyl) eth	5.13	45	1714652	39.57	ug/mL	98
18) N-Nitroso-di-n-propylamine	5.24	70	1341710	38.89	ug/mL	98
19) 4-Methylphenol	5.21	107	3060259	41.68	ug/mL	97
20) Hexachloroethane	5.29	117	936042	40.61	ug/mL	98
23) Nitrobenzene	5.36	77	2141187	39.88	ug/mL	99
24) Isophorone	5.52	82	3936811	39.24	ug/mL	98
25) 2-Nitrophenol	5.59	139	1294405	51.11	ug/mL	99
26) 2,4-Dimethylphenol	5.60	122	2141231	40.98	ug/mL	98
27) Bis(2-chloroethoxy) methan	5.67	93	2445073	38.99	ug/mL	99
28) Benzoic acid	5.67	105	2035605	64.14	ug/mL	98
29) 2,4-Dichlorophenol	5.75	162	2016097	42.78	ug/mL	98
30) 1,2,4-Trichlorobenzene	5.81	180	2035363	40.17	ug/mL	99
31) Alpha-Terpineol	5.84	59	1318306	38.36	ug/mL	54
32) Naphthalene	5.86	128	5848349	37.81	ug/mL	99
33) 4-Chloroaniline	5.92	127	2852243	40.43	ug/mL	99
34) Hexachlorobutadiene	5.98	225	1074672	40.42	ug/mL	97
35) Caprolactam	6.17	113	662760	33.69	ug/mL#	84
36) 4-Chloro-3-methylphenol	6.26	107	2020043	40.84	ug/mL	98
37) 1-Methylnaphthalene	6.47	141	4079507	37.17	ug/mL	98
38) 2-Methylnaphthalene	6.38	142	4341694	40.37	ug/mL	99
40) 1,2,4,5-tetrachlorobenzene	6.56	216	1886706	41.67	ug/mL	98
41) Hexachlorocyclopentadiene	6.56	237	1219115	48.01	ug/mL	99
42) Biphenyl	6.78	153	2136360	38.30	ug/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627598.D Vial: 10
Acq On : 2 Dec 2019 2:00 pm Operator: SR
Sample : SEQ-CAL8 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:28 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 14:44:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

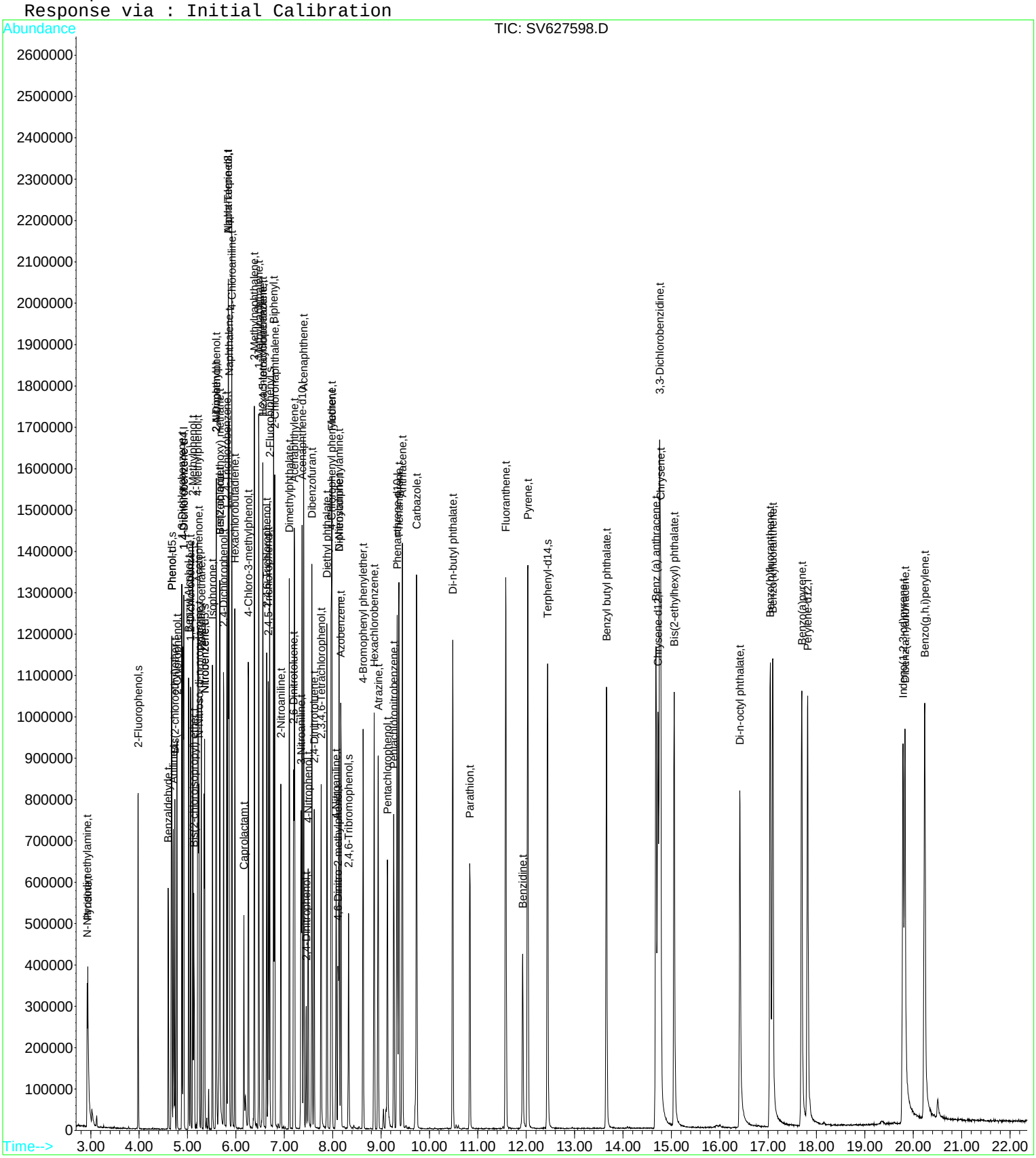
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 2,4,6-Trichlorophenol	6.64	196	1409408	48.47	ug/mL	97
44) 2,4,5-Trichlorophenol	6.67	196	1777871	46.11	ug/mL	99
46) 2-Chloronaphthalene	6.80	162	4255389	40.47	ug/mL	99
47) 2-Nitroaniline	6.93	138	1685454	49.53	ug/mL	98
48) Dimethylphthalate	7.11	163	5128741	41.20	ug/mL	99
49) 2,6-Dinitrotoluene	7.19	165	1228052	49.81	ug/mL	94
50) Acenaphthylene	7.21	152	6860493	40.57	ug/mL	100
51) 3-Nitroaniline	7.35	138	1467847	48.75	ug/mL#	98
52) Acenaphthene	7.40	154	3994399	41.12	ug/mL	98
53) 2,4-Dinitrophenol	7.45	184	484969	75.31	ug/mL	93
54) Dibenzofuran	7.57	168	6117646	41.39	ug/mL	99
55) 2,4-Dinitrotoluene	7.62	165	1645324	50.75	ug/mL	99
56) 4-Nitrophenol	7.50	65	916835	48.25	ug/mL	96
57) 2,3,4,6-Tetrachlorophenol	7.76	131	501180	46.64	ug/mL	99
58) Diethyl phthalate	7.88	149	4963207	40.20	ug/mL	99
59) Fluorene	7.98	166	4827418	40.67	ug/mL	100
60) 4-Chlorophenyl phenylether	7.97	204	2465882	42.70	ug/mL	98
61) 4-Nitroaniline	8.07	138	1509185	49.56	ug/mL	96
63) 4,6-Dinitro-2-methylphenol	8.11	198	708451	66.79	ug/mL	99
64) Diphenylamine	8.14	169	3771283	40.82	ug/mL	98
65) N-Nitrosodiphenylamine	8.13	167	1255257	40.25	ug/mL	97
66) Azobenzene	8.17	77	4478899	37.04	ug/mL	100
68) 4-Bromophenyl phenylether	8.63	248	1581363	45.04	ug/mL	96
69) Atrazine	8.94	200	1407883	40.65	ug/mL	99
70) Hexachlorobenzene	8.86	142	623193	39.99	ug/mL	97
71) Pentachlorophenol	9.14	266	1061543	58.87	ug/mL	97
72) Pentachloronitrobenzene	9.27	237	603702	47.36	ug/mL	97
73) Phenanthrene	9.37	178	6906937	40.82	ug/mL	100
74) Anthracene	9.44	178	7399541	41.83	ug/mL	100
75) Carbazole	9.74	167	7521291	40.84	ug/mL#	96
76) Di-n-butyl phthalate	10.48	149	9169515	43.51	ug/mL	100
77) Parathion	10.84	97	896149	61.60	ug/mL#	98
78) Fluoranthene	11.58	202	8190118	42.32	ug/mL	99
79) Benzidine	11.93	184	2704996	58.92	ug/mL	99
81) Pyrene	12.04	202	8660553	36.27	ug/mL	100
83) Benzyl butyl phthalate	13.66	149	4253275	44.93	ug/mL	99
84) Bis(2-ethylhexyl) phthalat	15.06	149	5583621	48.89	ug/mL	99
85) Benz (a) anthracene	14.69	228	7937177	47.06	ug/mL	99
86) 3,3-Dichlorobenzidine	14.76	252	5370858	91.33	ug/mL	99
87) Chrysene	14.78	228	7614521	38.54	ug/mL	100
88) Di-n-octyl phthalate	16.42	149	8798517	66.17	ug/mL	99
89) Benzo(b)fluoranthene	17.05	252	7452093	51.65	ug/mL	99
90) Benzo(k)fluoranthene	17.10	252	8701292	47.56	ug/mL	99
91) Benzo(a)pyrene	17.70	252	7171689	51.42	ug/mL	98
93) Indeno(1,2,3-cd)pyrene	19.79	276	8812698m	54.97	ug/mL	
94) Dibenz(a,h)anthracene	19.83	278	6120372	61.91	ug/mL	97
95) Benzo(g,h,i)perylene	20.24	276	8626177m	49.21	ug/mL	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627598.D Vial: 10
Acq On : 2 Dec 2019 2:00 pm Operator: SR
Sample : SEQ-CAL8 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:28 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YL90003 **Laboratory ID:** Y9L0308-SCV1

Sequence: Y9L0308 **Standard ID:** Y19K126

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	33.1	10.4	30.00
1,2-Dichlorobenzene	30.0	31.0	3.4	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	29.5	-1.8	30.00
1,3-Dichlorobenzene	30.0	31.5	5.0	30.00
1,4-Dichlorobenzene	30.0	31.4	4.8	30.00
2,4,5-Trichlorophenol	30.0	29.6	-1.2	30.00
2,4,6-Trichlorophenol	30.0	32.4	8.0	30.00
2,4-Dichlorophenol	30.0	34.0	13.3	30.00
2,4-Dimethylphenol	30.0	32.3	7.6	30.00
2,4-Dinitrophenol	30.0	41.2	37.4 *	30.00
2,4-Dinitrotoluene	30.0	34.7	15.8	30.00
2,6-Dinitrotoluene	30.0	36.3	21.0	30.00
2-Chloronaphthalene	30.0	31.8	6.1	30.00
2-Chlorophenol	30.0	31.2	4.1	30.00
2-Methylnaphthalene	30.0	36.6	22.2	30.00
2-Methylphenol	30.0	28.0	-6.6	30.00
2-Nitroaniline	30.0	34.9	16.3	30.00
2-Nitrophenol	30.0	33.6	11.9	30.00
3- & 4-Methylphenols	30.0	26.4	-12.1	30.00
3-Nitroaniline	30.0	36.2	20.7	30.00
4,6-Dinitro-2-methylphenol	30.0	40.1	33.6 *	30.00
4-Bromophenyl phenyl ether	30.0	32.4	8.1	30.00
4-Chloro-3-methylphenol	30.0	33.3	11.1	30.00
4-Chloroaniline	30.0	34.8	16.1	30.00
4-Chlorophenyl phenyl ether	30.0	32.6	8.6	30.00
4-Nitroaniline	30.0	37.8	26.0	30.00
4-Nitrophenol	30.0	30.8	2.7	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YL90003 **Laboratory ID:** Y9L0308-SCV1

Sequence: Y9L0308 **Standard ID:** Y19K126

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Acenaphthene	30.0	33.2	10.6	30.00
Acenaphthylene	30.0	31.2	3.9	30.00
Aniline	30.0	35.9	19.6	30.00
Anthracene	30.0	32.8	9.4	30.00
Benzo(a)anthracene	30.0	32.4	7.9	30.00
Benzo(a)pyrene	30.0	33.8	12.7	30.00
Benzo(b)fluoranthene	30.0	33.3	11.0	30.00
Benzo(g,h,i)perylene	30.0	34.1	13.7	30.00
Benzo(k)fluoranthene	30.0	32.5	8.4	30.00
Benzyl alcohol	30.0	35.9	19.7	30.00
Benzyl butyl phthalate	30.0	31.0	3.4	30.00
Bis(2-chloroethoxy)methane	30.0	33.3	11.0	30.00
Bis(2-chloroethyl)ether	30.0	33.6	11.9	30.00
Bis(2-chloroisopropyl)ether	30.0	36.7	22.2	30.00
Bis(2-ethylhexyl)phthalate	30.0	31.2	4.0	30.00
Carbazole	30.0	31.8	6.0	30.00
Chrysene	30.0	33.5	11.7	30.00
Dibenzo(a,h)anthracene	30.0	35.7	18.9	30.00
Dibenzofuran	30.0	33.6	12.0	30.00
Diethyl phthalate	30.0	32.8	9.3	30.00
Dimethyl phthalate	30.0	31.9	6.4	30.00
Di-n-butyl phthalate	30.0	30.9	2.9	30.00
Di-n-octyl phthalate	30.0	32.2	7.3	30.00
Fluoranthene	30.0	33.8	12.8	30.00
Fluorene	30.0	33.0	9.9	30.00
Hexachlorobenzene	30.0	30.6	1.9	30.00
Hexachlorobutadiene	30.0	32.3	7.7	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YL90003 **Laboratory ID:** Y9L0308-SCV1

Sequence: Y9L0308 **Standard ID:** Y19K126

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorocyclopentadiene	30.0	33.4	11.3	30.00
Hexachloroethane	30.0	31.6	5.4	30.00
Indeno(1,2,3-cd)pyrene	30.0	33.6	11.9	30.00
Isophorone	30.0	34.5	15.1	30.00
Naphthalene	30.0	33.6	12.2	30.00
Nitrobenzene	30.0	30.5	1.7	30.00
N-Nitrosodimethylamine	30.0	34.4	14.7	30.00
N-nitroso-di-n-propylamine	30.0	32.5	8.3	30.00
N-Nitrosodiphenylamine	30.0	37.8	26.0	30.00
Pentachlorophenol	30.0	32.9	9.8	30.00
Phenanthrene	30.0	33.5	11.6	30.00
Phenol	30.0	33.0	10.0	30.00
Pyrene	30.0	33.3	10.9	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627599.D Vial: 11
Acq On : 2 Dec 2019 2:47 pm Operator: SR
Sample : SEQ-SCV1 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:33 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.91	152	1370086	40.00	ug/mL	0.00
21) Naphthalene-d8	5.85	136	5492525	40.00	ug/mL	0.00
39) Acenaphthene-d10	7.37	164	3201818	40.00	ug/mL	0.00
62) Phenanthrene-d10	9.33	188	6454500	40.00	ug/mL	0.00
80) Chrysene-d12	14.73	240	5765272	40.00	ug/mL	0.00
92) Perylene-d12	17.82	264	6524773	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0	0.00	ug/mL	
Spiked Amount 75.000	Range 15 - 87		Recovery =	0.00%#		
5) Phenol-d5	0.00	99	0d	0.00	ug/mL	
Spiked Amount 75.000	Range 10 - 100		Recovery =	0.00%#		
22) Nitrobenzene-d5	0.00	82	0d	0.00	ug/mL	
Spiked Amount 50.000	Range 26 - 120		Recovery =	0.00%#		
45) 2-Fluorobiphenyl	0.00	172	0	0.00	ug/mL	
Spiked Amount 50.000	Range 29 - 120		Recovery =	0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/mL	
Spiked Amount 75.000	Range 35 - 126		Recovery =	0.00%#		
82) Terphenyl-d14	0.00	244	0	0.00	ug/mL	
Spiked Amount 50.000	Range 35 - 127		Recovery =	0.00%#		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.93	74	1080161	34.41	ug/mL	99
3) Pyridine	2.94	79	1623797m	30.18	ug/mL	
7) Aniline	4.70	93	2602502	35.88	ug/mL	98
8) Phenol	4.67	94	2234920	32.99	ug/mL	96
9) Bis(2-chloroethyl)ether	4.74	93	1601308	33.58	ug/mL	100
10) 2-Chlorophenol	4.78	128	1722722	31.22	ug/mL	99
11) 1,3-Dichlorobenzene	4.89	146	1877618	31.49	ug/mL	99
12) 1,4-Dichlorobenzene	4.92	146	1795024	31.45	ug/mL	100
13) Benzyl Alcohol	5.02	108	1113209	35.90	ug/mL	99
14) 1,2-Dichlorobenzene	5.06	146	1746113	31.03	ug/mL	98
15) 2-Methylphenol	5.11	107	1359537	28.03	ug/mL	99
17) Bis(2-chloroisopropyl) eth	5.13	45	1574373	36.66	ug/mL#	93
18) N-Nitroso-di-n-propylamine	5.24	70	1125112	32.48	ug/mL#	85
19) 4-Methylphenol	5.21	107	1895874	26.37	ug/mL#	61
20) Hexachloroethane	5.28	117	706134	31.61	ug/mL	99
23) Nitrobenzene	5.36	77	1591778	30.51	ug/mL	99
24) Isophorone	5.52	82	3221899	34.52	ug/mL	100
25) 2-Nitrophenol	5.59	139	941689	33.57	ug/mL	99
26) 2,4-Dimethylphenol	5.60	122	1602445	32.27	ug/mL	100
27) Bis(2-chloroethoxy) methan	5.67	93	1996240	33.31	ug/mL	99
29) 2,4-Dichlorophenol	5.75	162	1512770	33.99	ug/mL	98
30) 1,2,4-Trichlorobenzene	5.81	180	1533564	33.11	ug/mL	99
32) Naphthalene	5.86	128	4761121	33.65	ug/mL	100
33) 4-Chloroaniline	5.91	127	2272847	34.84	ug/mL	99
34) Hexachlorobutadiene	5.98	225	813629	32.32	ug/mL	98
36) 4-Chloro-3-methylphenol	6.26	107	1565179	33.33	ug/mL	99
37) 1-Methylnaphthalene	6.47	141	2997642	30.00	ug/mL	99
38) 2-Methylnaphthalene	6.38	142	3660516	36.65	ug/mL	100
41) Hexachlorocyclopentadiene	6.56	237	931388	33.38	ug/mL	98
43) 2,4,6-Trichlorophenol	6.64	196	1008863	32.41	ug/mL	99
44) 2,4,5-Trichlorophenol	6.67	196	1169910	29.64	ug/mL	99
46) 2-Chloronaphthalene	6.80	162	3270554	31.84	ug/mL	96
47) 2-Nitroaniline	6.93	138	1270578	34.89	ug/mL	100
48) Dimethylphthalate	7.11	163	3858536	31.93	ug/mL	100
49) 2,6-Dinitrotoluene	7.19	165	939484	36.30	ug/mL	95
50) Acenaphthylene	7.21	152	5208216	31.16	ug/mL	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\120219A\SV627599.D Vial: 11
Acq On : 2 Dec 2019 2:47 pm Operator: SR
Sample : SEQ-SCV1 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:33 2019 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

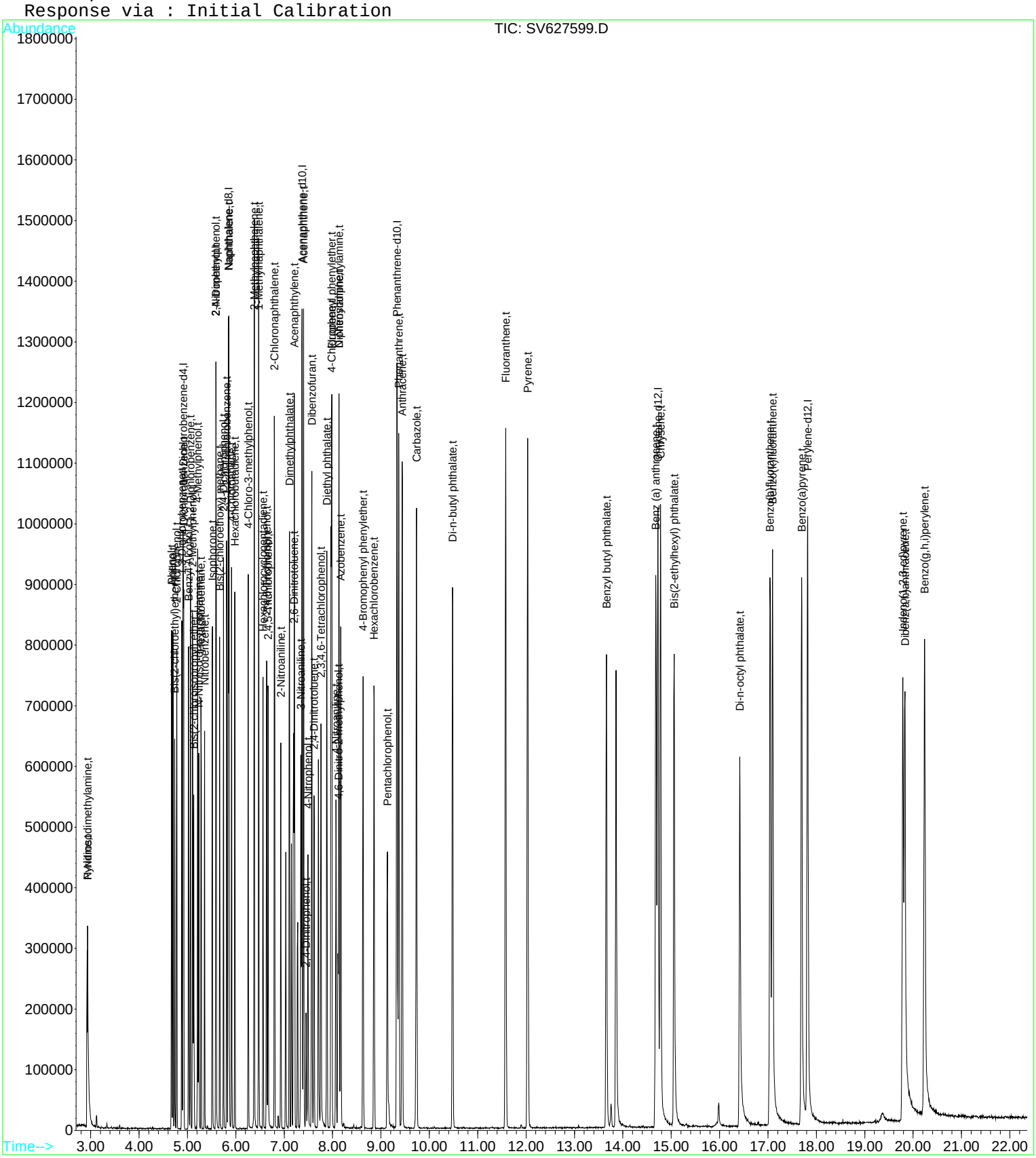
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	3-Nitroaniline	7.35	138	1160079	36.20	ug/mL	98
52)	Acenaphthene	7.40	154	3107878	33.17	ug/mL	99
53)	2,4-Dinitrophenol	7.45	184	315052	41.21	ug/mL	96
54)	Dibenzofuran	7.57	168	4879285	33.61	ug/mL	100
55)	2,4-Dinitrotoluene	7.62	165	1185041	34.74	ug/mL	98
56)	4-Nitrophenol	7.49	65	639083	30.82	ug/mL	97
57)	2,3,4,6-Tetrachlorophenol	7.76	131	418774	36.59	ug/mL	94
58)	Diethyl phthalate	7.88	149	3900177	32.79	ug/mL	99
59)	Fluorene	7.98	166	3845239	32.96	ug/mL	99
60)	4-Chlorophenyl phenylether	7.97	204	1881361	32.59	ug/mL	98
61)	4-Nitroaniline	8.07	138	1241436	37.79	ug/mL	97
63)	4,6-Dinitro-2-methylphenol	8.11	198	509633	40.09	ug/mL	98
64)	Diphenylamine	8.13	169	3487056	37.02	ug/mL	100
65)	N-Nitrosodiphenylamine	8.13	167	1206912	37.80	ug/mL	98
66)	Azobenzene	8.17	77	3507611	29.47	ug/mL	99
68)	4-Bromophenyl phenylether	8.63	248	1201029	32.44	ug/mL	96
70)	Hexachlorobenzene	8.86	142	468067	30.58	ug/mL	96
71)	Pentachlorophenol	9.13	266	700042	32.93	ug/mL	93
73)	Phenanthrene	9.37	178	5775308	33.49	ug/mL	100
74)	Anthracene	9.44	178	5989773	32.81	ug/mL	99
75)	Carbazole	9.74	167	6030177	31.80	ug/mL#	100
76)	Di-n-butyl phthalate	10.48	149	7075494	30.88	ug/mL	100
78)	Fluoranthene	11.58	202	6896473	33.83	ug/mL	100
81)	Pyrene	12.03	202	7094269	33.27	ug/mL	100
83)	Benzyl butyl phthalate	13.66	149	3207151	31.03	ug/mL	99
84)	Bis(2-ethylhexyl) phthalat	15.06	149	4298382	31.19	ug/mL	99
85)	Benz (a) anthracene	14.69	228	6260264	32.37	ug/mL	99
87)	Chrysene	14.78	228	6242226	33.50	ug/mL	97
88)	Di-n-octyl phthalate	16.42	149	6709202	32.19	ug/mL	100
89)	Benzo(b)fluoranthene	17.05	252	5846699	33.31	ug/mL	99
90)	Benzo(k)fluoranthene	17.10	252	6802080	32.53	ug/mL	98
91)	Benzo(a)pyrene	17.70	252	5904550	33.80	ug/mL	98
93)	Indeno(1,2,3-cd)pyrene	19.79	276	6714213	33.58	ug/mL#	97
94)	Dibenz(a,h)anthracene	19.83	278	5100924	35.66	ug/mL	95
95)	Benzo(g,h,i)perylene	20.24	276	6443830	34.12	ug/mL	96

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120219A\SV627599.D Vial: 11
Acq On : 2 Dec 2019 2:47 pm Operator: SR
Sample : SEQ-SCV1 Inst : BNA#6
Misc : QBSV6120219A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Dec 2 15:33 2019 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	BNA#6	Calibration:	YL90003
Lab File ID:	SV628939.D	Calibration Date:	12/02/19 07:06
Sequence:	Y0B1101	Injection Date:	02/10/20
Lab Sample ID:	Y0B1101-CCV1	Injection Time:	15:38

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	29.0	0.6575023	0.6357523	0.01	-3.3	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	33.4	0.5788689	0.6444265	0.01	11.3	20	
1,2,4-Trichlorobenzene	A	30.0	30.8	0.3373046	0.3464519		2.7	20	
1,2-Dichlorobenzene	A	30.0	29.1	1.642863	1.591352		-3.1	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	25.8	0.7377319	0.6339775		-14.1	20	
1,3-Dichlorobenzene	A	30.0	30.0	1.740862	1.738262		-0.1	20	
1,4-Dichlorobenzene	A	30.0	30.2	1.666478	1.678289		0.7	20	
2,3,4,6-Tetrachlorophenol	A	30.0	31.8	0.1429761	0.1515823	0.01	6.0	20	
2,4,5-Trichlorophenol	A	30.0	32.1	0.4930565	0.5268766	0.2	6.9	20	
2,4,6-Trichlorophenol	A	30.0	34.3	0.3888812	0.4444243	0.2	14.3	20	
2,4-Dichlorophenol	A	30.0	30.0	0.3241296	0.3244318	0.2	0.09	20	
2,4-Dimethylphenol	A	30.0	25.5	0.3616412	0.3077443	0.2	-14.9	20	
2,4-Dinitrophenol	A	30.0	50.6	9.550446E-02	0.1611077	0.01	68.7	20	*
2,4-Dinitrotoluene	A	30.0	35.3	0.4261029	0.5008454	0.2	17.5	20	
2,6-Dinitrotoluene	A	30.0	32.7	0.3233484	0.3525416	0.2	9.0	20	
2-Chloronaphthalene	A	30.0	28.7	1.283221	1.226477	0.8	-4.4	20	
2-Chlorophenol	A	30.0	27.4	1.610993	1.469794	0.8	-8.8	20	
2-Methylnaphthalene	A	30.0	30.0	0.7273746	0.728359	0.4	0.1	20	
2-Methylphenol	A	30.0	28.9	1.416113	1.36476	0.7	-3.6	20	
2-Nitroaniline	A	30.0	30.1	0.4549492	0.4569187	0.01	0.4	20	
2-Nitrophenol	A	30.0	31.4	0.2043011	0.2135056	0.1	4.5	20	
3- & 4-Methylphenols	A	30.0	28.0	2.099256	1.958522	0.6	-6.7	20	
3,3-Dichlorobenzidine	A	60.0	57.0	0.4831084	0.4587967	0.01	-5.0	20	
3-Nitroaniline	A	30.0	30.6	0.4003132	0.4089849	0.01	2.2	20	
4,6-Dinitro-2-methylphenol	A	30.0	45.8	0.0787793	0.1203532	0.01	52.8	20	*
4-Bromophenyl phenyl ether	A	30.0	31.9	0.229416	0.2442175	0.1	6.5	20	
4-Chloro-3-methylphenol	A	30.0	30.5	0.3419521	0.3478939	0.2	1.7	20	
4-Chloroaniline	A	30.0	29.0	0.475145	0.4590771	0.01	-3.4	20	
4-Chlorophenyl phenyl ether	A	30.0	32.8	0.7212672	0.7891418	0.4	9.4	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	BNA#6	Calibration:	YL90003
Lab File ID:	SV628939.D	Calibration Date:	12/02/19 07:06
Sequence:	Y0B1101	Injection Date:	02/10/20
Lab Sample ID:	Y0B1101-CCV1	Injection Time:	15:38

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	29.9	0.4104099	0.4084491	0.01	-0.5	20	
4-Nitrophenol	A	30.0	31.0	0.2590455	0.2679504	0.01	3.4	20	
Acenaphthene	A	30.0	29.0	1.17069	1.132073	0.9	-3.3	20	
Acenaphthylene	A	30.0	28.3	2.088285	1.968934	0.9	-5.7	20	
Acetophenone	A	30.0	28.6	2.077716	1.982855	0.01	-4.6	20	
Aniline	A	30.0	30.0	2.117362	2.117764		0.02	20	
Anthracene	A	30.0	29.0	1.131501	1.092473	0.7	-3.4	20	
Atrazine	A	30.0	29.3	0.2438088	0.2377893	0.01	-2.5	20	
Benzaldehyde	A	30.0	23.5	1.054547	0.8267131	0.01	-21.6	20	*
Benzidine	A	30.0	30.1	0.441657	0.4431595		0.3	20	
Benzo(a)anthracene	A	30.0	27.8	1.34192	1.242246	0.8	-7.4	20	
Benzo(a)pyrene	A	30.0	32.5	1.211931	1.312749	0.7	8.3	20	
Benzo(b)fluoranthene	A	30.0	32.2	1.217723	1.306364	0.7	7.3	20	
Benzo(g,h,i)perylene	A	30.0	31.1	1.157799	1.199416	0.5	3.6	20	
Benzo(k)fluoranthene	A	30.0	28.1	1.450761	1.359226	0.7	-6.3	20	
Benzoic acid	A	30.0	30.2	0.3033429	0.3052824		0.6	20	
Benzyl alcohol	A	30.0	28.5	0.905321	0.8600848		-5.0	20	
Benzyl butyl phthalate	A	30.0	22.9	0.7171241	0.5477256		-23.6	20	*
Bis(2-chloroethoxy)methane	A	30.0	24.8	0.4363826	0.3599623	0.3	-17.5	20	
Bis(2-chloroethyl)ether	A	30.0	24.7	1.392417	1.148479	0.7	-17.5	20	
Bis(2-chloroisopropyl)ether	A	30.0	28.5	1.253678	1.192664	0.01	-4.9	20	
Bis(2-ethylhexyl)phthalate	A	30.0	23.7	0.9560973	0.755928		-20.9	20	*
Caprolactam	A	30.0	27.1	0.1306204	0.1178864	0.01	-9.7	20	
Carbazole	A	30.0	28.2	1.175278	1.104349	0.01	-6.0	20	
Chrysene	A	30.0	26.6	1.292723	1.146569	0.7	-11.3	20	
Dibenzo(a,h)anthracene	A	30.0	39.0	0.8769237	1.141539	0.4	30.2	20	*
Dibenzofuran	A	30.0	30.1	1.81343	1.820717	0.8	0.4	20	
Diethyl phthalate	A	30.0	29.9	1.486005	1.481015	0.01	-0.3	20	
Dimethyl phthalate	A	30.0	29.9	1.509637	1.502763	0.01	-0.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	BNA#6	Calibration:	YL90003
Lab File ID:	SV628939.D	Calibration Date:	12/02/19 07:06
Sequence:	Y0B1101	Injection Date:	02/10/20
Lab Sample ID:	Y0B1101-CCV1	Injection Time:	15:38

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	27.0	1.419995	1.278012	0.01	-10.0	20	
Di-n-octyl phthalate	A	30.0	27.9	1.445988	1.34512	0.01	-7.0	20	
Fluoranthene	A	30.0	31.5	1.263469	1.327653	0.6	5.1	20	
Fluorene	A	30.0	29.4	1.457331	1.430069	0.9	-1.9	20	
Hexachlorobenzene	A	30.0	26.7	0.0948717	8.446763E-02	0.1	-11.0	20	
Hexachlorobutadiene	A	30.0	33.4	0.1833229	0.2042583	0.01	11.4	20	
Hexachlorocyclopentadiene	A	30.0	21.0	0.3486257	0.2442233	0.05	-29.9	20	*
Hexachloroethane	A	30.0	28.1	0.6522684	0.6101584	0.3	-6.5	20	
Indeno(1,2,3-cd)pyrene	A	30.0	35.0	1.225902	1.430247	0.5	16.7	20	
Isophorone	A	30.0	27.6	0.679726	0.6247845	0.4	-8.1	20	
Naphthalene	A	30.0	26.8	1.03048	0.9192444	0.7	-10.8	20	
Nitrobenzene	A	30.0	28.2	0.3799911	0.3574401	0.2	-5.9	20	
N-Nitrosodimethylamine	A	30.0	25.1	0.9163639	0.7653399		-16.5	20	
N-nitroso-di-n-propylamine	A	30.0	29.9	1.011259	1.008123	0.5	-0.3	20	
N-Nitrosodiphenylamine	A	30.0	27.6	0.1978848	0.1818099	0.01	-8.1	20	
Pentachlorophenol	A	30.0	31.6	0.1317481	0.1388161	0.05	5.4	20	
Phenanthrene	A	30.0	29.0	1.068762	1.03168	0.7	-3.5	20	
Phenol	A	30.0	28.8	1.977849	1.901078	0.8	-3.9	20	
Pyrene	A	30.0	24.8	1.479318	1.220483	0.6	-17.5	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 File : C:\HPCHEM\1\DATA\021020A\SV628939.D Vial: 2
Acq On : 10 Feb 2020 3:38 pm Operator: OW
Sample : SEQ-CCV1 Inst : BNA#6
Misc : QBSV6021020A CCV=Y20B084 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 8:02 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	943755	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	4094325	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.23	164	2468626	40.00	ug/mL	-0.14
62) Phenanthrene-d10	9.17	188	5181551	40.00	ug/mL	-0.16
80) Chrysene-d12	14.55	240	5930644	40.00	ug/mL	-0.17
92) Perylene-d12	17.66	264	6994074	40.00	ug/mL	-0.16
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	927892	26.92	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 35.89%			
5) Phenol-d5	4.59	99	1229947	28.26	ug/mL	-0.07
Spiked Amount 75.000	Range 10 - 100		Recovery = 37.68%			
22) Nitrobenzene-d5	5.24	82	1036772	28.74	ug/mL	-0.11
Spiked Amount 50.000	Range 26 - 120		Recovery = 57.48%			
45) 2-Fluorobiphenyl	6.58	172	2530921	29.69	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 59.38%			
67) 2,4,6-Tribromophenol	8.19	330	505623	38.51	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 51.35%			
82) Terphenyl-d14	12.25	244	4019352	27.82	ug/mL	-0.19
Spiked Amount 50.000	Range 35 - 127		Recovery = 55.64%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.73	74	541720m	25.06	ug/mL	
3) Pyridine	2.73	79	960063	25.90	ug/mL#	57
6) Benzaldehyde	4.49	105	585161m	23.52	ug/mL	
7) Aniline	4.59	93	1498988	30.01	ug/mL#	29
8) Phenol	4.60	94	1345614	28.84	ug/mL#	25
9) Bis(2-chloroethyl)ether	4.63	93	812912	24.74	ug/mL	92
10) 2-Chlorophenol	4.68	128	1040344	27.37	ug/mL#	91
11) 1,3-Dichlorobenzene	4.77	146	1230370	29.96	ug/mL	97
12) 1,4-Dichlorobenzene	4.81	146	1187920	30.21	ug/mL	98
13) Benzyl Alcohol	4.93	108	608782	28.50	ug/mL#	84
14) 1,2-Dichlorobenzene	4.95	146	1126385	29.06	ug/mL	99
15) 2-Methylphenol	5.03	107	965999	28.91	ug/mL#	81
16) Acetophenone	5.12	105	1403497	28.63	ug/mL	94
17) Bis(2-chloroisopropyl) eth	5.02	45	844187	28.54	ug/mL#	58
18) N-Nitroso-di-n-propylamine	5.13	70	713566	29.91	ug/mL	88
19) 4-Methylphenol	5.14	107	1386274	27.99	ug/mL#	91
20) Hexachloroethane	5.17	117	431880	28.06	ug/mL	89
23) Nitrobenzene	5.25	77	1097607	28.22	ug/mL#	88
24) Isophorone	5.41	82	1918553	27.58	ug/mL#	96
25) 2-Nitrophenol	5.49	139	655621	31.35	ug/mL	94
26) 2,4-Dimethylphenol	5.51	122	945004	25.53	ug/mL	88
27) Bis(2-chloroethoxy) methan	5.57	93	1105352	24.75	ug/mL	93
28) Benzoic acid	5.61	105	937444	30.19	ug/mL	95
29) 2,4-Dichlorophenol	5.67	162	996247	30.03	ug/mL	95
30) 1,2,4-Trichlorobenzene	5.71	180	1063865	30.81	ug/mL	99
31) Alpha-Terpineol	5.74	59	701298	28.02	ug/mL	84
32) Naphthalene	5.76	128	2822764	26.76	ug/mL	98
33) 4-Chloroaniline	5.82	127	1409708	28.99	ug/mL#	94
34) Hexachlorobutadiene	5.87	225	627225	33.43	ug/mL	97
35) Caprolactam	6.07	113	361999	27.08	ug/mL#	76
36) 4-Chloro-3-methylphenol	6.19	107	1068293	30.52	ug/mL	91
37) 1-Methylnaphthalene	6.36	141	2218713	29.78	ug/mL	97
38) 2-Methylnaphthalene	6.27	142	2236604	30.04	ug/mL	97
40) 1,2,4,5-tetrachlorobenzene	6.44	216	1193136	33.40	ug/mL	95
41) Hexachlorocyclopentadiene	6.44	237	452172	21.02	ug/mL	96
42) Biphenyl	6.66	153	1177076	29.01	ug/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628939.D Vial: 2
Acq On : 10 Feb 2020 3:38 pm Operator: OW
Sample : SEQ-CCV1 Inst : BNA#6
Misc : QBSV6021020A CCV=Y20B084 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 8:02 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

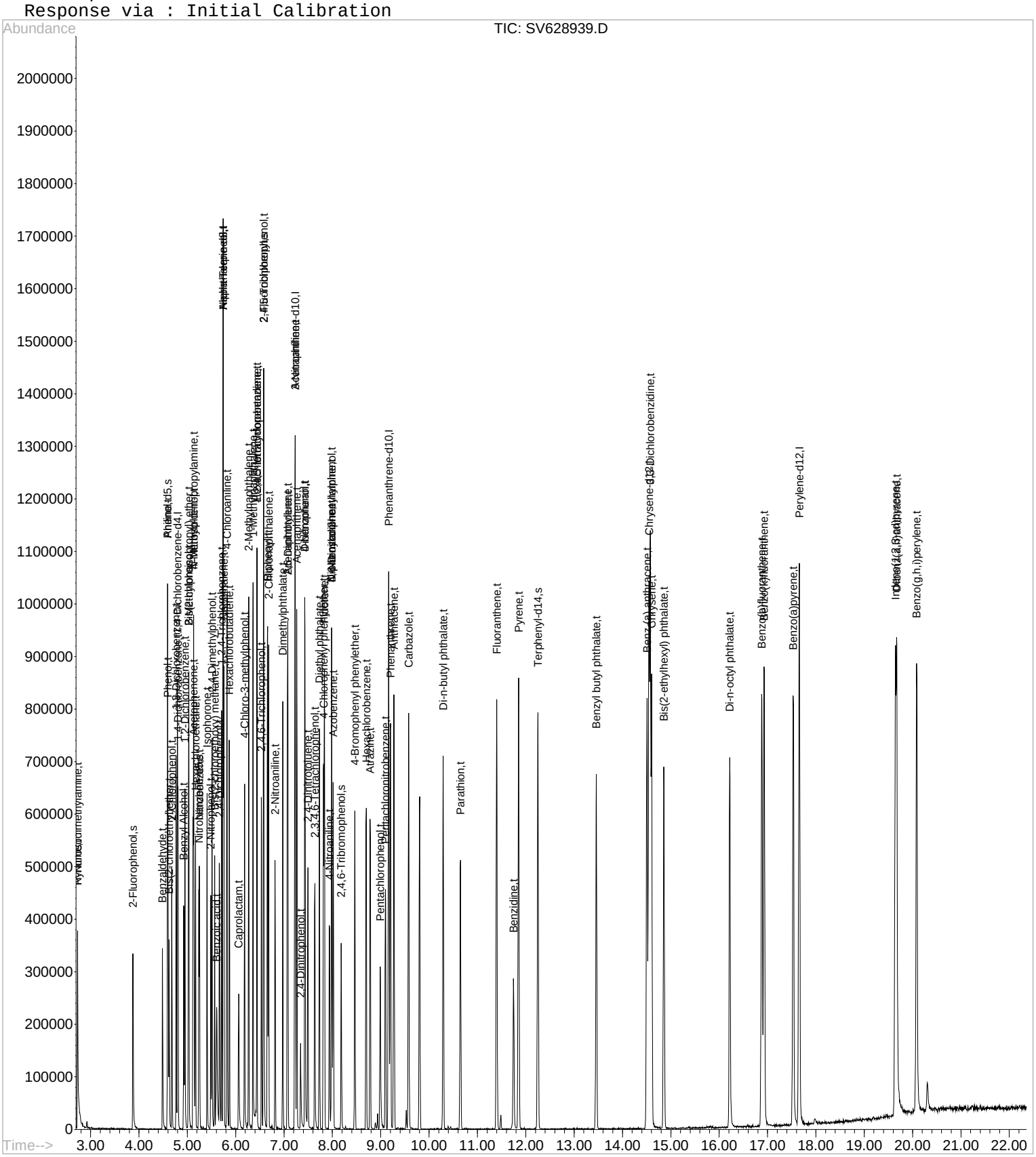
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 2,4,6-Trichlorophenol	6.54	196	822838	34.28	ug/mL	99
44) 2,4,5-Trichlorophenol	6.58	196	975496m	32.06	ug/mL	
46) 2-Chloronaphthalene	6.68	162	2270785	28.67	ug/mL	99
47) 2-Nitroaniline	6.82	138	845971	30.13	ug/mL#	90
48) Dimethylphthalate	6.98	163	2782319	29.86	ug/mL	99
49) 2,6-Dinitrotoluene	7.07	165	652720	32.71	ug/mL	90
50) Acenaphthylene	7.08	152	3645421	28.29	ug/mL	99
51) 3-Nitroaniline	7.22	138	757223	30.65	ug/mL#	90
52) Acenaphthene	7.27	154	2095999	29.01	ug/mL	98
53) 2,4-Dinitrophenol	7.35	184	298286	50.61	ug/mL	91
54) Dibenzofuran	7.43	168	3371002	30.12	ug/mL#	77
55) 2,4-Dinitrotoluene	7.50	165	927300	35.26	ug/mL	97
56) 4-Nitrophenol	7.43	65	496102	31.03	ug/mL#	1
57) 2,3,4,6-Tetrachlorophenol	7.64	131	280650	31.81	ug/mL	95
58) Diethyl phthalate	7.73	149	2742054	29.90	ug/mL	99
59) Fluorene	7.84	166	2647729	29.44	ug/mL	98
60) 4-Chlorophenyl phenylether	7.82	204	1461072	32.82	ug/mL	99
61) 4-Nitroaniline	7.94	138	756231	29.86	ug/mL#	82
63) 4,6-Dinitro-2-methylphenol	7.99	198	467712	45.83	ug/mL	92
64) Diphenylamine	7.99	169	2081618	27.53	ug/mL	99
65) N-Nitrosodiphenylamine	7.99	167	706543	27.56	ug/mL	98
66) Azobenzene	8.02	77	2463740	25.78	ug/mL#	92
68) 4-Bromophenyl phenylether	8.47	248	949069	31.94	ug/mL	95
69) Atrazine	8.78	200	924088	29.26	ug/mL	98
70) Hexachlorobenzene	8.70	142	328255	26.71	ug/mL	67
71) Pentachlorophenol	8.99	266	539462	31.61	ug/mL	97
72) Pentachloronitrobenzene	9.10	237	395005	34.88	ug/mL	92
73) Phenanthrene	9.20	178	4009276	28.96	ug/mL	98
74) Anthracene	9.27	178	4245530	28.97	ug/mL	99
75) Carbazole	9.58	167	4291682	28.19	ug/mL#	96
76) Di-n-butyl phthalate	10.29	149	4966563	27.00	ug/mL	99
77) Parathion	10.65	97	665835	41.78	ug/mL#	88
78) Fluoranthene	11.40	202	5159475	31.52	ug/mL	99
79) Benzidine	11.75	184	1722190	30.10	ug/mL#	94
81) Pyrene	11.85	202	5428689m	24.75	ug/mL	
83) Benzyl butyl phthalate	13.46	149	2436274m	22.91	ug/mL	
84) Bis(2-ethylhexyl) phthalat	14.85	149	3362355m	23.72	ug/mL	
85) Benz (a) anthracene	14.51	228	5525487	27.77	ug/mL	98
86) 3,3-Dichlorobenzidine	14.58	252	4081440	56.98	ug/mL#	97
87) Chrysene	14.60	228	5099919	26.61	ug/mL	99
88) Di-n-octyl phthalate	16.22	149	5983073	27.91	ug/mL#	96
89) Benzo(b)fluoranthene	16.88	252	5810683	32.18	ug/mL#	94
90) Benzo(k)fluoranthene	16.93	252	6045816m	28.11	ug/mL	
91) Benzo(a)pyrene	17.54	252	5839086	32.50	ug/mL#	94
93) Indeno(1,2,3-cd)pyrene	19.65	276	7502442	35.00	ug/mL#	79
94) Dibenz(a,h)anthracene	19.67	278	5988008	39.05	ug/mL#	91
95) Benzo(g,h,i)perylene	20.09	276	6291605	31.08	ug/mL#	91

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628939.D Vial: 2
Acq On : 10 Feb 2020 3:38 pm Operator: OW
Sample : SEQ-CCV1 Inst : BNA#6
Misc : QBSV6021020A CCV=Y20B084 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 8:02 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	BNA#6	Calibration:	YL90003
Lab File ID:	SV628961.D	Calibration Date:	12/02/19 07:06
Sequence:	Y0B1127	Injection Date:	02/11/20
Lab Sample ID:	Y0B1127-CCV1	Injection Time:	08:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	28.8	0.6575023	0.6309645	0.01	-4.0	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	32.4	0.5788689	0.6255813	0.01	8.1	20	
1,2,4-Trichlorobenzene	A	30.0	31.1	0.3373046	0.3501442		3.8	20	
1,2-Dichlorobenzene	A	30.0	29.8	1.642863	1.633633		-0.6	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	26.3	0.7377319	0.6473084		-12.3	20	
1,3-Dichlorobenzene	A	30.0	29.5	1.740862	1.710553		-1.7	20	
1,4-Dichlorobenzene	A	30.0	30.0	1.666478	1.663695		-0.2	20	
2,3,4,6-Tetrachlorophenol	A	30.0	29.9	0.1429761	0.1423382	0.01	-0.4	20	
2,4,5-Trichlorophenol	A	30.0	31.8	0.4930565	0.5221094	0.2	5.9	20	
2,4,6-Trichlorophenol	A	30.0	33.8	0.3888812	0.4383403	0.2	12.7	20	
2,4-Dichlorophenol	A	30.0	30.6	0.3241296	0.3310493	0.2	2.1	20	
2,4-Dimethylphenol	A	30.0	27.1	0.3616412	0.3261645	0.2	-9.8	20	
2,4-Dinitrophenol	A	30.0	44.8	9.550446E-02	0.1427323	0.01	49.5	20	*
2,4-Dinitrotoluene	A	30.0	36.0	0.4261029	0.5106376	0.2	19.8	20	
2,6-Dinitrotoluene	A	30.0	32.8	0.3233484	0.3536426	0.2	9.4	20	
2-Chloronaphthalene	A	30.0	28.4	1.283221	1.216458	0.8	-5.2	20	
2-Chlorophenol	A	30.0	28.3	1.610993	1.51901	0.8	-5.7	20	
2-Methylnaphthalene	A	30.0	29.8	0.7273746	0.7237919	0.4	-0.5	20	
2-Methylphenol	A	30.0	29.6	1.416113	1.399298	0.7	-1.2	20	
2-Nitroaniline	A	30.0	30.3	0.4549492	0.4590181	0.01	0.9	20	
2-Nitrophenol	A	30.0	30.6	0.2043011	0.2086264	0.1	2.1	20	
3- & 4-Methylphenols	A	30.0	28.6	2.099256	2.000353	0.6	-4.7	20	
3,3-Dichlorobenzidine	A	60.0	58.5	0.4831084	0.4713047	0.01	-2.4	20	
3-Nitroaniline	A	30.0	30.2	0.4003132	0.4036498	0.01	0.8	20	
4,6-Dinitro-2-methylphenol	A	30.0	43.9	0.0787793	0.1153235	0.01	46.4	20	*
4-Bromophenyl phenyl ether	A	30.0	33.7	0.229416	0.2575684	0.1	12.3	20	
4-Chloro-3-methylphenol	A	30.0	32.0	0.3419521	0.3641763	0.2	6.5	20	
4-Chloroaniline	A	30.0	29.7	0.475145	0.4703888	0.01	-1.0	20	
4-Chlorophenyl phenyl ether	A	30.0	33.2	0.7212672	0.7972106	0.4	10.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	BNA#6	Calibration:	YL90003
Lab File ID:	SV628961.D	Calibration Date:	12/02/19 07:06
Sequence:	Y0B1127	Injection Date:	02/11/20
Lab Sample ID:	Y0B1127-CCV1	Injection Time:	08:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	29.8	0.4104099	0.4079921	0.01	-0.6	20	
4-Nitrophenol	A	30.0	29.9	0.2590455	0.2580125	0.01	-0.4	20	
Acenaphthene	A	30.0	29.1	1.17069	1.136129	0.9	-3.0	20	
Acenaphthylene	A	30.0	28.4	2.088285	1.976543	0.9	-5.4	20	
Acetophenone	A	30.0	30.4	2.077716	2.108066	0.01	1.5	20	
Aniline	A	30.0	30.9	2.117362	2.182784		3.1	20	
Anthracene	A	30.0	29.3	1.131501	1.106656	0.7	-2.2	20	
Atrazine	A	30.0	29.8	0.2438088	0.2422984	0.01	-0.6	20	
Benzaldehyde	A	30.0	22.4	1.054547	0.7884161	0.01	-25.2	20	*
Benzidine	A	30.0	35.6	0.441657	0.5240995		18.7	20	
Benzo(a)anthracene	A	30.0	28.0	1.34192	1.253318	0.8	-6.6	20	
Benzo(a)pyrene	A	30.0	32.0	1.211931	1.292252	0.7	6.6	20	
Benzo(b)fluoranthene	A	30.0	32.2	1.217723	1.304839	0.7	7.2	20	
Benzo(g,h,i)perylene	A	30.0	31.5	1.157799	1.215589	0.5	5.0	20	
Benzo(k)fluoranthene	A	30.0	28.0	1.450761	1.355845	0.7	-6.5	20	
Benzoic acid	A	30.0	30.4	0.3033429	0.3074687		1.4	20	
Benzyl alcohol	A	30.0	30.4	0.905321	0.9173998		1.3	20	
Benzyl butyl phthalate	A	30.0	23.3	0.7171241	0.5569077		-22.3	20	*
Bis(2-chloroethoxy)methane	A	30.0	24.9	0.4363826	0.3626425	0.3	-16.9	20	
Bis(2-chloroethyl)ether	A	30.0	26.2	1.392417	1.217108	0.7	-12.6	20	
Bis(2-chloroisopropyl)ether	A	30.0	31.0	1.253678	1.294892	0.01	3.3	20	
Bis(2-ethylhexyl)phthalate	A	30.0	24.6	0.9560973	0.7828646		-18.1	20	
Caprolactam	A	30.0	28.5	0.1306204	0.1241026	0.01	-5.0	20	
Carbazole	A	30.0	28.2	1.175278	1.103356	0.01	-6.1	20	
Chrysene	A	30.0	26.9	1.292723	1.160884	0.7	-10.2	20	
Dibenzo(a,h)anthracene	A	30.0	40.9	0.8769237	1.19555	0.4	36.3	20	*
Dibenzofuran	A	30.0	30.6	1.81343	1.850537	0.8	2.0	20	
Diethyl phthalate	A	30.0	29.4	1.486005	1.455463	0.01	-2.1	20	
Dimethyl phthalate	A	30.0	30.1	1.509637	1.512721	0.01	0.2	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	BNA#6	Calibration:	YL90003
Lab File ID:	SV628961.D	Calibration Date:	12/02/19 07:06
Sequence:	Y0B1127	Injection Date:	02/11/20
Lab Sample ID:	Y0B1127-CCV1	Injection Time:	08:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	27.9	1.419995	1.319199	0.01	-7.1	20	
Di-n-octyl phthalate	A	30.0	28.5	1.445988	1.374229	0.01	-5.0	20	
Fluoranthene	A	30.0	30.8	1.263469	1.299142	0.6	2.8	20	
Fluorene	A	30.0	29.7	1.457331	1.444549	0.9	-0.9	20	
Hexachlorobenzene	A	30.0	28.4	0.0948717	8.994333E-02	0.1	-5.2	20	
Hexachlorobutadiene	A	30.0	35.0	0.1833229	0.2142024	0.01	16.8	20	
Hexachlorocyclopentadiene	A	30.0	15.9	0.3486257	0.1848637	0.05	-47.0	20	*
Hexachloroethane	A	30.0	28.2	0.6522684	0.6124172	0.3	-6.1	20	
Indeno(1,2,3-cd)pyrene	A	30.0	34.8	1.225902	1.420501	0.5	15.9	20	
Isophorone	A	30.0	28.1	0.679726	0.6375534	0.4	-6.2	20	
Naphthalene	A	30.0	27.4	1.03048	0.9401271	0.7	-8.8	20	
Nitrobenzene	A	30.0	28.4	0.3799911	0.360099	0.2	-5.2	20	
N-Nitrosodimethylamine	A	30.0	25.7	0.9163639	0.7849478		-14.3	20	
N-nitroso-di-n-propylamine	A	30.0	30.2	1.011259	1.019164	0.5	0.8	20	
N-Nitrosodiphenylamine	A	30.0	29.0	0.1978848	0.1909492	0.01	-3.5	20	
Pentachlorophenol	A	30.0	29.2	0.1317481	0.128325	0.05	-2.6	20	
Phenanthrene	A	30.0	28.8	1.068762	1.025115	0.7	-4.1	20	
Phenol	A	30.0	29.6	1.977849	1.951403	0.8	-1.3	20	
Pyrene	A	30.0	24.6	1.479318	1.214459	0.6	-17.9	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 File : C:\HPCHEM\1\DATA\021120A\SV628961.D Vial: 2
Acq On : 11 Feb 2020 8:30 am Operator: OW
Sample : SEQ-CCV1 Inst : BNA#6
Misc : QBSV6021120A CCV=Y20B084 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:30 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	819990	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	3574569	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2127881	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	4393448	40.00	ug/mL	-0.16
80) Chrysene-d12	14.56	240	4923971	40.00	ug/mL	-0.17
92) Perylene-d12	17.67	264	5758184	40.00	ug/mL	-0.15
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	831328	27.76	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 37.01%			
5) Phenol-d5	4.60	99	1074906	28.43	ug/mL	-0.07
Spiked Amount 75.000	Range 10 - 100		Recovery = 37.91%			
22) Nitrobenzene-d5	5.24	82	938051	29.79	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 59.58%			
45) 2-Fluorobiphenyl	6.58	172	2279505	31.02	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 62.04%			
67) 2,4,6-Tribromophenol	8.19	330	454755	40.85	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 54.47%			
82) Terphenyl-d14	12.26	244	3413412	28.46	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery = 56.92%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.74	74	482737	25.70	ug/mL#	83
3) Pyridine	2.73	79	983291m	30.53	ug/mL	
6) Benzaldehyde	4.49	105	484870	22.43	ug/mL	95
7) Aniline	4.60	93	1342396	30.93	ug/mL#	35
8) Phenol	4.61	94	1200098	29.60	ug/mL#	31
9) Bis(2-chloroethyl)ether	4.63	93	748512	26.22	ug/mL	95
10) 2-Chlorophenol	4.68	128	934180	28.29	ug/mL#	92
11) 1,3-Dichlorobenzene	4.77	146	1051977	29.48	ug/mL	98
12) 1,4-Dichlorobenzene	4.81	146	1023160	29.95	ug/mL	98
13) Benzyl Alcohol	4.93	108	564194	30.40	ug/mL	88
14) 1,2-Dichlorobenzene	4.95	146	1004672	29.83	ug/mL	99
15) 2-Methylphenol	5.04	107	860558	29.64	ug/mL#	81
16) Acetophenone	5.12	105	1296445	30.44	ug/mL	92
17) Bis(2-chloroisopropyl) eth	5.02	45	796349	30.99	ug/mL#	56
18) N-Nitroso-di-n-propylamine	5.13	70	626778	30.23	ug/mL	89
19) 4-Methylphenol	5.14	107	1230202	28.59	ug/mL#	91
20) Hexachloroethane	5.17	117	376632	28.17	ug/mL	90
23) Nitrobenzene	5.26	77	965399	28.43	ug/mL#	88
24) Isophorone	5.41	82	1709234	28.14	ug/mL#	96
25) 2-Nitrophenol	5.49	139	559312	30.64	ug/mL#	92
26) 2,4-Dimethylphenol	5.52	122	874423	27.06	ug/mL	92
27) Bis(2-chloroethoxy) methan	5.57	93	972218	24.93	ug/mL	95
28) Benzoic acid	5.61	105	824301	30.41	ug/mL	95
29) 2,4-Dichlorophenol	5.67	162	887519	30.64	ug/mL	95
30) 1,2,4-Trichlorobenzene	5.71	180	938711	31.14	ug/mL	99
31) Alpha-Terpineol	5.74	59	599374	27.43	ug/mL	87
32) Naphthalene	5.76	128	2520412	27.37	ug/mL	99
33) 4-Chloroaniline	5.82	127	1261078	29.70	ug/mL#	94
34) Hexachlorobutadiene	5.87	225	574261	35.05	ug/mL	99
35) Caprolactam	6.07	113	332710	28.50	ug/mL#	81
36) 4-Chloro-3-methylphenol	6.19	107	976330	31.95	ug/mL	90
37) 1-Methylnaphthalene	6.36	141	1907811	29.34	ug/mL	98
38) 2-Methylnaphthalene	6.27	142	1940433	29.85	ug/mL	98
40) 1,2,4,5-tetrachlorobenzene	6.44	216	998372	32.42	ug/mL	97
41) Hexachlorocyclopentadiene	6.45	237	295026	15.91	ug/mL#	99
42) Biphenyl	6.66	153	1006963	28.79	ug/mL	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021120A\SV628961.D Vial: 2
Acq On : 11 Feb 2020 8:30 am Operator: OW
Sample : SEQ-CCV1 Inst : BNA#6
Misc : QBSV6021120A CCV=Y20B084 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:30 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

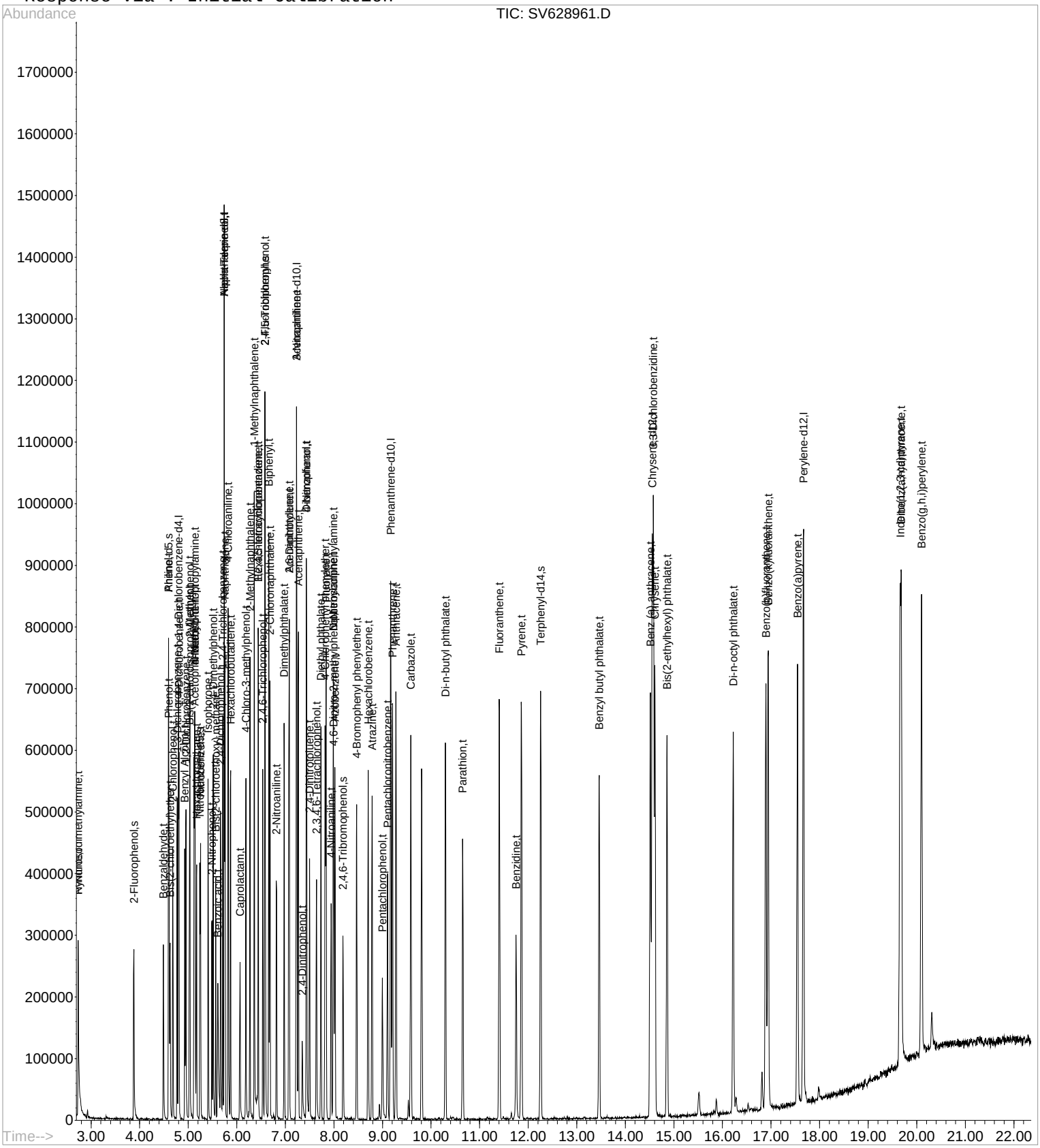
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 2,4,6-Trichlorophenol	6.54	196	699552	33.82	ug/mL	98
44) 2,4,5-Trichlorophenol	6.59	196	833240	31.77	ug/mL	98
46) 2-Chloronaphthalene	6.68	162	1941359	28.44	ug/mL	97
47) 2-Nitroaniline	6.82	138	732552	30.27	ug/mL#	89
48) Dimethylphthalate	6.98	163	2414167	30.06	ug/mL	99
49) 2,6-Dinitrotoluene	7.07	165	564382	32.81	ug/mL	94
50) Acenaphthylene	7.08	152	3154387	28.39	ug/mL	99
51) 3-Nitroaniline	7.23	138	644189	30.25	ug/mL#	89
52) Acenaphthene	7.27	154	1813160	29.11	ug/mL	98
53) 2,4-Dinitrophenol	7.35	184	227788	44.84	ug/mL	92
54) Dibenzofuran	7.44	168	2953292	30.61	ug/mL#	78
55) 2,4-Dinitrotoluene	7.50	165	814932	35.95	ug/mL	97
56) 4-Nitrophenol	7.44	65	411765	29.88	ug/mL#	1
57) 2,3,4,6-Tetrachlorophenol	7.64	131	227159	29.87	ug/mL	90
58) Diethyl phthalate	7.74	149	2322789	29.38	ug/mL	99
59) Fluorene	7.84	166	2305372	29.74	ug/mL	100
60) 4-Chlorophenyl phenylether	7.82	204	1272277	33.16	ug/mL	99
61) 4-Nitroaniline	7.95	138	651119	29.82	ug/mL#	84
63) 4,6-Dinitro-2-methylphenol	8.00	198	380001	43.92	ug/mL	86
64) Diphenylamine	7.99	169	1781907	27.79	ug/mL	99
65) N-Nitrosodiphenylamine	7.99	167	629194	28.95	ug/mL	96
66) Azobenzene	8.02	77	2132937	26.32	ug/mL#	91
68) 4-Bromophenyl phenylether	8.47	248	848710	33.68	ug/mL#	94
69) Atrazine	8.79	200	798394	29.81	ug/mL	96
70) Hexachlorobenzene	8.71	142	296371	28.44	ug/mL	72
71) Pentachlorophenol	9.00	266	422842	29.22	ug/mL	95
72) Pentachloronitrobenzene	9.11	237	335108	34.90	ug/mL	92
73) Phenanthrene	9.21	178	3377843	28.77	ug/mL	100
74) Anthracene	9.28	178	3646528	29.34	ug/mL	99
75) Carbazole	9.59	167	3635654	28.16	ug/mL#	100
76) Di-n-butyl phthalate	10.30	149	4346875	27.87	ug/mL	99
77) Parathion	10.65	97	604000	44.70	ug/mL#	85
78) Fluoranthene	11.41	202	4280786	30.85	ug/mL	99
79) Benzidine	11.75	184	1726953	35.60	ug/mL#	95
81) Pyrene	11.86	202	4484971	24.63	ug/mL	99
83) Benzyl butyl phthalate	13.46	149	2056648	23.30	ug/mL	96
84) Bis(2-ethylhexyl) phthalat	14.86	149	2891102	24.56	ug/mL#	97
85) Benz (a) anthracene	14.52	228	4628475	28.02	ug/mL	99
86) 3,3-Dichlorobenzidine	14.58	252	3481036	58.53	ug/mL#	98
87) Chrysene	14.61	228	4287119	26.94	ug/mL	99
88) Di-n-octyl phthalate	16.22	149	5074999	28.51	ug/mL#	95
89) Benzo(b)fluoranthene	16.90	252	4818742	32.15	ug/mL#	94
90) Benzo(k)fluoranthene	16.94	252	5007106m	28.04	ug/mL	
91) Benzo(a)pyrene	17.55	252	4772257	31.99	ug/mL#	94
93) Indeno(1,2,3-cd)pyrene	19.66	276	6134628	34.76	ug/mL#	77
94) Dibenz(a,h)anthracene	19.68	278	5163148	40.90	ug/mL#	90
95) Benzo(g,h,i)perylene	20.10	276	5249687	31.50	ug/mL#	91

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

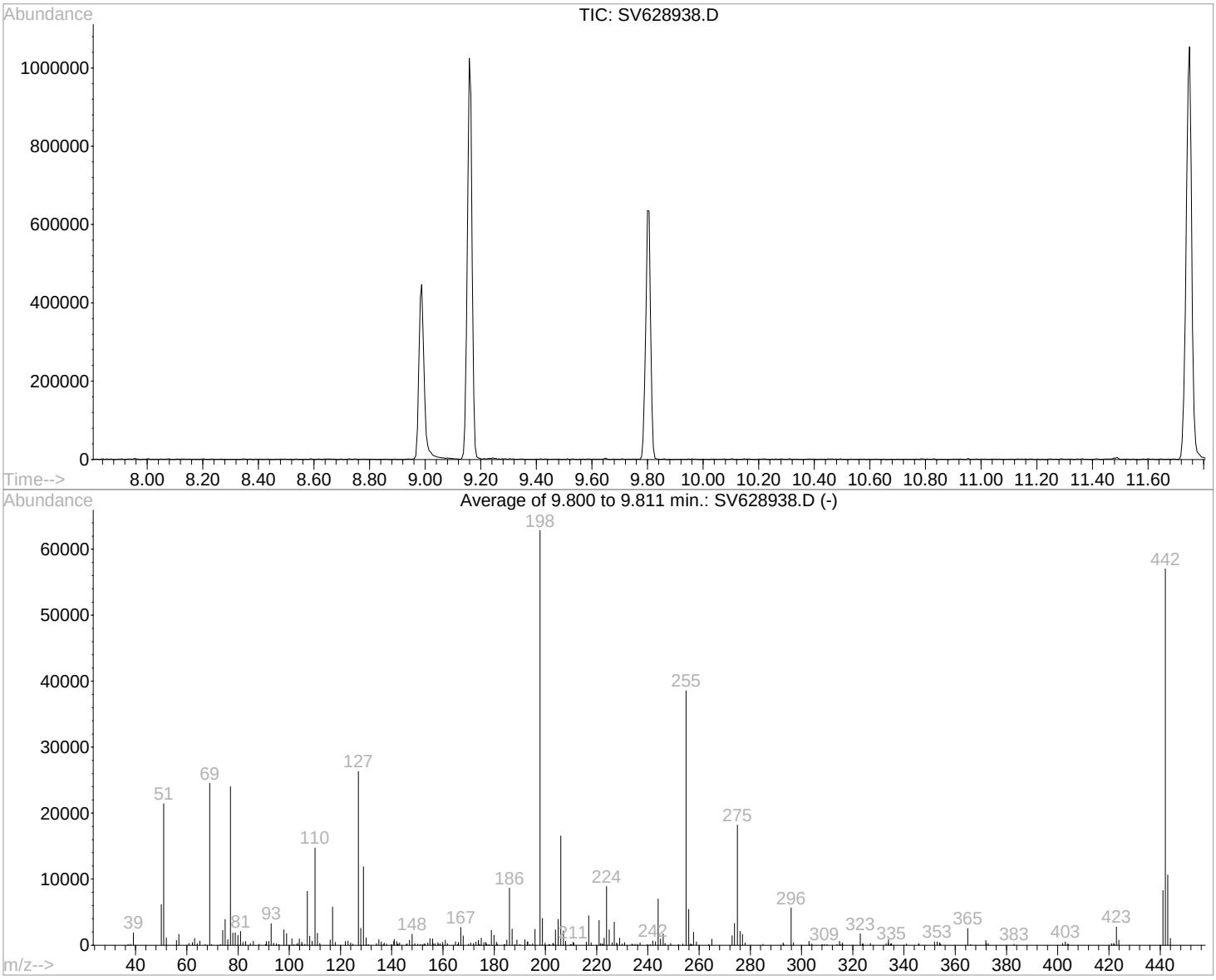
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021120A\SV628961.D Vial: 2
Acq On : 11 Feb 2020 8:30 am Operator: OW
Sample : SEQ-CCV1 Inst : BNA#6
Misc : QBSV6021120A CCV=Y20B084 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 14:30 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



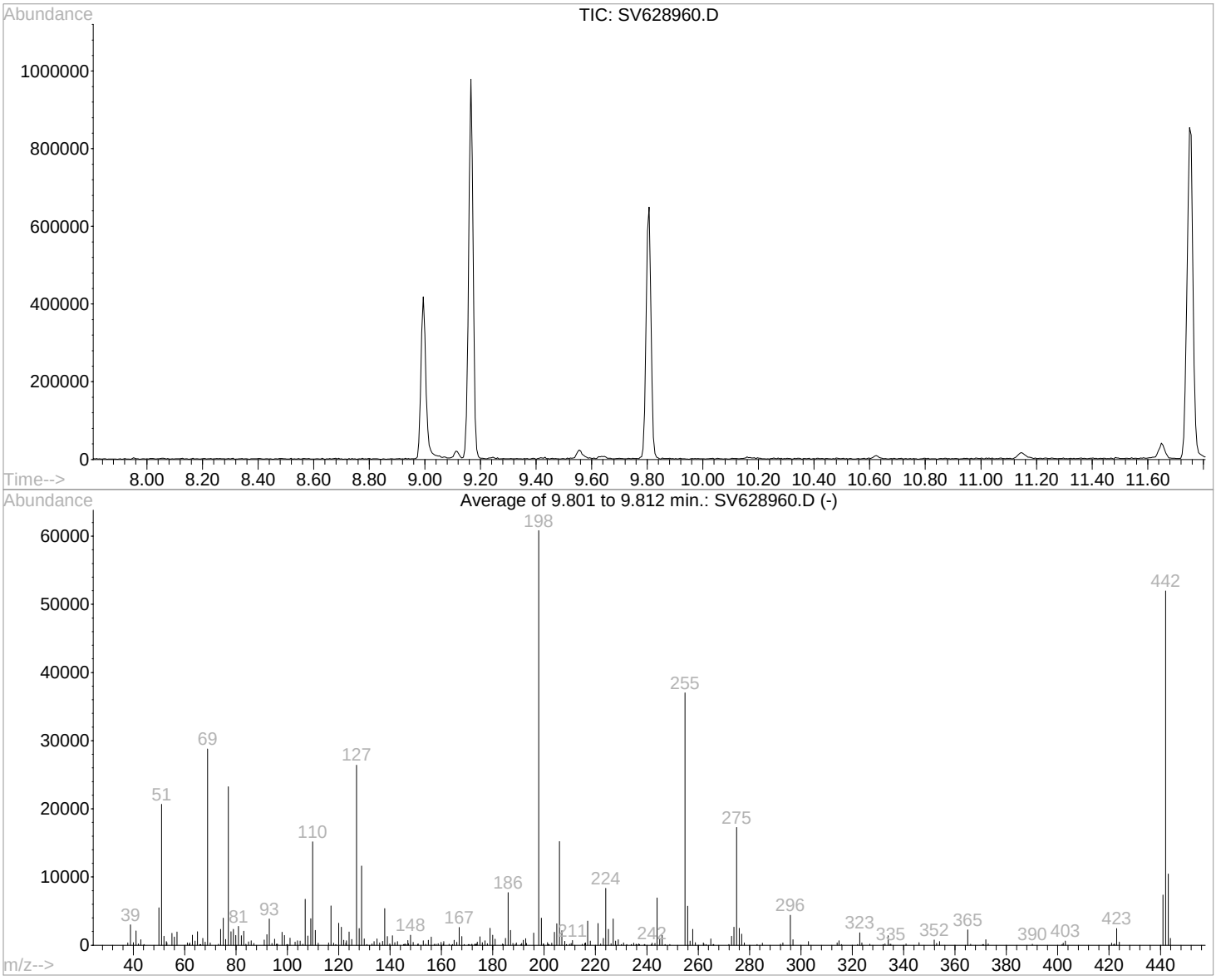
Data File : C:\HPCHEM\1\DATA\021020A\SV628938.D Vial: 1
Acq On : 10 Feb 2020 3:07 pm Operator: OW
Sample : SEQ-TUN1 Inst : BNA#6
Misc : QBSV6021020A TUNE=Y20A183 Multiplr: 1.00
MS Integration Params: EVENTS.E
Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D



AutoFind: Scans 1331, 1332, 1333; Background Corrected with Scan 1324

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.1	21413	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	24548	PASS
70	69	0.00	2	0.4	99	PASS
127	198	10	80	41.9	26298	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	62816	PASS
199	198	5	9	6.5	4060	PASS
275	198	10	60	29.0	18209	PASS
365	198	1	100	4.0	2524	PASS
441	442	0.01	24	14.5	8273	PASS
442	198	50	100	90.8	57016	PASS
443	442	15	24	18.6	10610	PASS

Data File : C:\HPCHEM\1\DATA\021120A\SV628960.D Vial: 1
Acq On : 11 Feb 2020 7:58 am Operator: OW
Sample : SEQ-TUN1 Inst : BNA#6
Misc : QBSV6021120A TUNE=Y20A183 Multiplr: 1.00
MS Integration Params: EVENTS.E
Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D

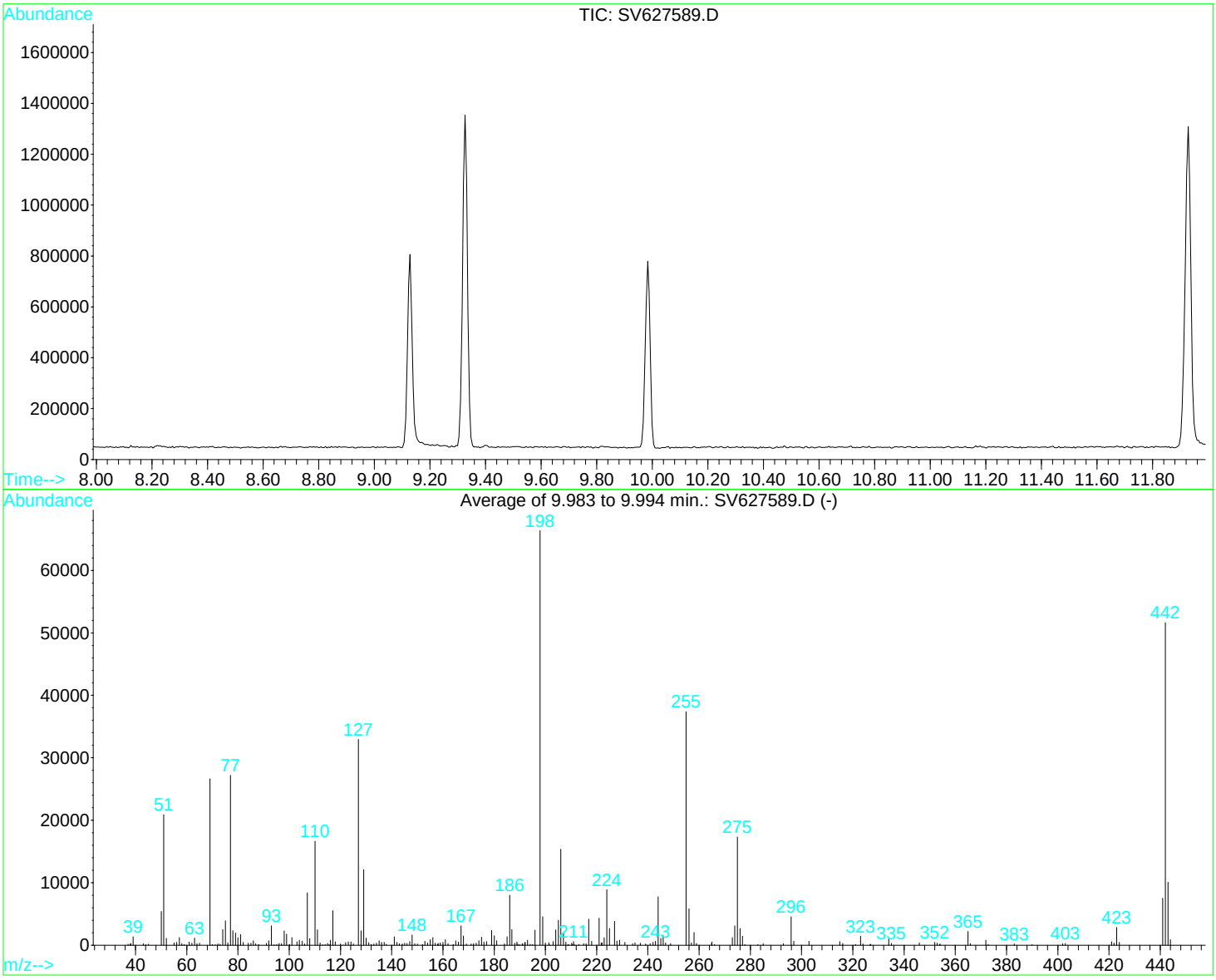


AutoFind: Scans 1331, 1332, 1333; Background Corrected with Scan 1324

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.0	20674	PASS
68	69	0.00	2	1.6	459	PASS
69	198	0.00	100	47.3	28772	PASS
70	69	0.00	2	1.2	347	PASS
127	198	10	80	43.5	26421	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	60805	PASS
199	198	5	9	6.5	3954	PASS
275	198	10	60	28.4	17283	PASS
365	198	1	100	3.7	2257	PASS
441	442	0.01	24	14.2	7358	PASS
442	198	50	100	85.5	51968	PASS
443	442	15	24	20.1	10430	PASS

DFTPP1

Data File : C:\HPCHEM\1\DATA\120219A\SV627589.D Vial: 1
Acq On : 2 Dec 2019 8:54 am Operator: SR
Sample : SEQ-TUN1 Inst : BNA#6
Misc : QBSV6120219A TUNE=Y19J065 Multiplr: 1.00
MS Integration Params: EVENTS.E
Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D



AutoFind: Scans 1366, 1367, 1368; Background Corrected with Scan 1356

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.5	20882	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.2	26662	PASS
70	69	0.00	2	0.4	105	PASS
127	198	10	80	49.6	32944	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	66368	PASS
199	198	5	9	6.8	4540	PASS
275	198	10	60	26.1	17322	PASS
365	198	1	100	3.3	2203	PASS
441	442	0.01	24	14.5	7502	PASS
442	198	50	100	77.8	51635	PASS
443	442	15	24	19.5	10079	PASS

METHOD BLANK RAW DATA

SDG: 20B0093
CLASS: SVOA
METHOD: EPA 8270D

FORM I

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00363-BLK1	File ID:	SV628940.D
Prepared:	02/10/20 07:21	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Analyzed:	02/10/20 16:10	Instrument:	BNA#6		
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
92-52-4	1,1-Biphenyl	41.6	U
95-94-3	1,2,4,5-Tetrachlorobenzene	83.0	U
120-82-1	1,2,4-Trichlorobenzene	41.6	U
95-50-1	1,2-Dichlorobenzene	41.6	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	41.6	U
541-73-1	1,3-Dichlorobenzene	41.6	U
106-46-7	1,4-Dichlorobenzene	41.6	U
58-90-2	2,3,4,6-Tetrachlorophenol	83.0	U
95-95-4	2,4,5-Trichlorophenol	41.6	U
88-06-2	2,4,6-Trichlorophenol	41.6	U
120-83-2	2,4-Dichlorophenol	41.6	U
105-67-9	2,4-Dimethylphenol	41.6	U
51-28-5	2,4-Dinitrophenol	83.0	U
121-14-2	2,4-Dinitrotoluene	41.6	U
606-20-2	2,6-Dinitrotoluene	41.6	U
91-58-7	2-Chloronaphthalene	41.6	U
95-57-8	2-Chlorophenol	41.6	U
91-57-6	2-Methylnaphthalene	41.6	U
95-48-7	2-Methylphenol	41.6	U
88-74-4	2-Nitroaniline	83.0	U
88-75-5	2-Nitrophenol	41.6	U
65794-96-9	3- & 4-Methylphenols	41.6	U
91-94-1	3,3-Dichlorobenzidine	41.6	U
99-09-2	3-Nitroaniline	83.0	U
534-52-1	4,6-Dinitro-2-methylphenol	83.0	U
101-55-3	4-Bromophenyl phenyl ether	41.6	U
59-50-7	4-Chloro-3-methylphenol	41.6	U
106-47-8	4-Chloroaniline	41.6	U
7005-72-3	4-Chlorophenyl phenyl ether	41.6	U
100-01-6	4-Nitroaniline	83.0	U

FORM I

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00363-BLK1	File ID:	SV628940.D
Prepared:	02/10/20 07:21	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Analyzed:	02/10/20 16:10	Instrument:	BNA#6		
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
100-02-7	4-Nitrophenol	83.0	U
83-32-9	Acenaphthene	41.6	U
208-96-8	Acenaphthylene	41.6	U
98-86-2	Acetophenone	41.6	U
62-53-3	Aniline	166	U
120-12-7	Anthracene	41.6	U
1912-24-9	Atrazine	41.6	U
100-52-7	Benzaldehyde	41.6	U
92-87-5	Benzidine	166	U
56-55-3	Benzo(a)anthracene	41.6	U
50-32-8	Benzo(a)pyrene	41.6	U
205-99-2	Benzo(b)fluoranthene	41.6	U
191-24-2	Benzo(g,h,i)perylene	41.6	U
207-08-9	Benzo(k)fluoranthene	41.6	U
65-85-0	Benzoic acid	41.6	U
100-51-6	Benzyl alcohol	41.6	U
85-68-7	Benzyl butyl phthalate	41.6	U
111-91-1	Bis(2-chloroethoxy)methane	41.6	U
111-44-4	Bis(2-chloroethyl)ether	41.6	U
108-60-1	Bis(2-chloroisopropyl)ether	41.6	U
117-81-7	Bis(2-ethylhexyl)phthalate	41.6	U
105-60-2	Caprolactam	83.0	U
86-74-8	Carbazole	41.6	U
218-01-9	Chrysene	41.6	U
53-70-3	Dibenzo(a,h)anthracene	41.6	U
132-64-9	Dibenzofuran	41.6	U
84-66-2	Diethyl phthalate	41.6	U
131-11-3	Dimethyl phthalate	41.6	U
84-74-2	Di-n-butyl phthalate	41.6	U
117-84-0	Di-n-octyl phthalate	41.6	U

FORM I

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00363-BLK1	File ID:	SV628940.D
Prepared:	02/10/20 07:21	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Analyzed:	02/10/20 16:10	Instrument:	BNA#6		
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
206-44-0	Fluoranthene	41.6	U
86-73-7	Fluorene	41.6	U
118-74-1	Hexachlorobenzene	41.6	U
87-68-3	Hexachlorobutadiene	41.6	U
77-47-4	Hexachlorocyclopentadiene	41.6	U
67-72-1	Hexachloroethane	41.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	41.6	U
78-59-1	Isophorone	41.6	U
91-20-3	Naphthalene	41.6	U
98-95-3	Nitrobenzene	41.6	U
62-75-9	N-Nitrosodimethylamine	41.6	U
621-64-7	N-nitroso-di-n-propylamine	41.6	U
86-30-6	N-Nitrosodiphenylamine	41.6	U
87-86-5	Pentachlorophenol	41.6	U
85-01-8	Phenanthrene	41.6	U
108-95-2	Phenol	41.6	U
129-00-0	Pyrene	41.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1660	946	57.0	20 - 108	
SURR: Phenol-d5	1660	976	58.8	23 - 114	
SURR: Nitrobenzene-d5	831	585	70.4	22 - 108	
SURR: 2-Fluorobiphenyl	831	620	74.6	21 - 113	
SURR: 2,4,6-Tribromophenol	1660	1610	97.2	19 - 110	
SURR: Terphenyl-d14	831	689	82.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	869232	4.8	943755	4.8	
ISTD: Naphthalene-d8	3402516	5.74	4094325	5.74	
ISTD: Acenaphthene-d10	2096369	7.23	2468626	7.23	
ISTD: Phenanthrene-d10	4144958	9.16	5181551	9.17	

FORM I

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00363-BLK1	File ID:	SV628940.D
Prepared:	02/10/20 07:21	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Analyzed:	02/10/20 16:10	Instrument:	BNA#6		
Batch:	BB00363	Sequence:	Y0B1101	Calibration:	YL90003

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Chrysene-d12	4615451	14.54	5930644	14.55	
ISTD: Perylene-d12	5455246	17.65	6994074	17.66	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628940.D Vial: 3
Acq On : 10 Feb 2020 4:10 pm Operator: OW
Sample : BB00363-BLK1 Inst : BNA#6
Misc : QBSV6021020A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 8:02 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

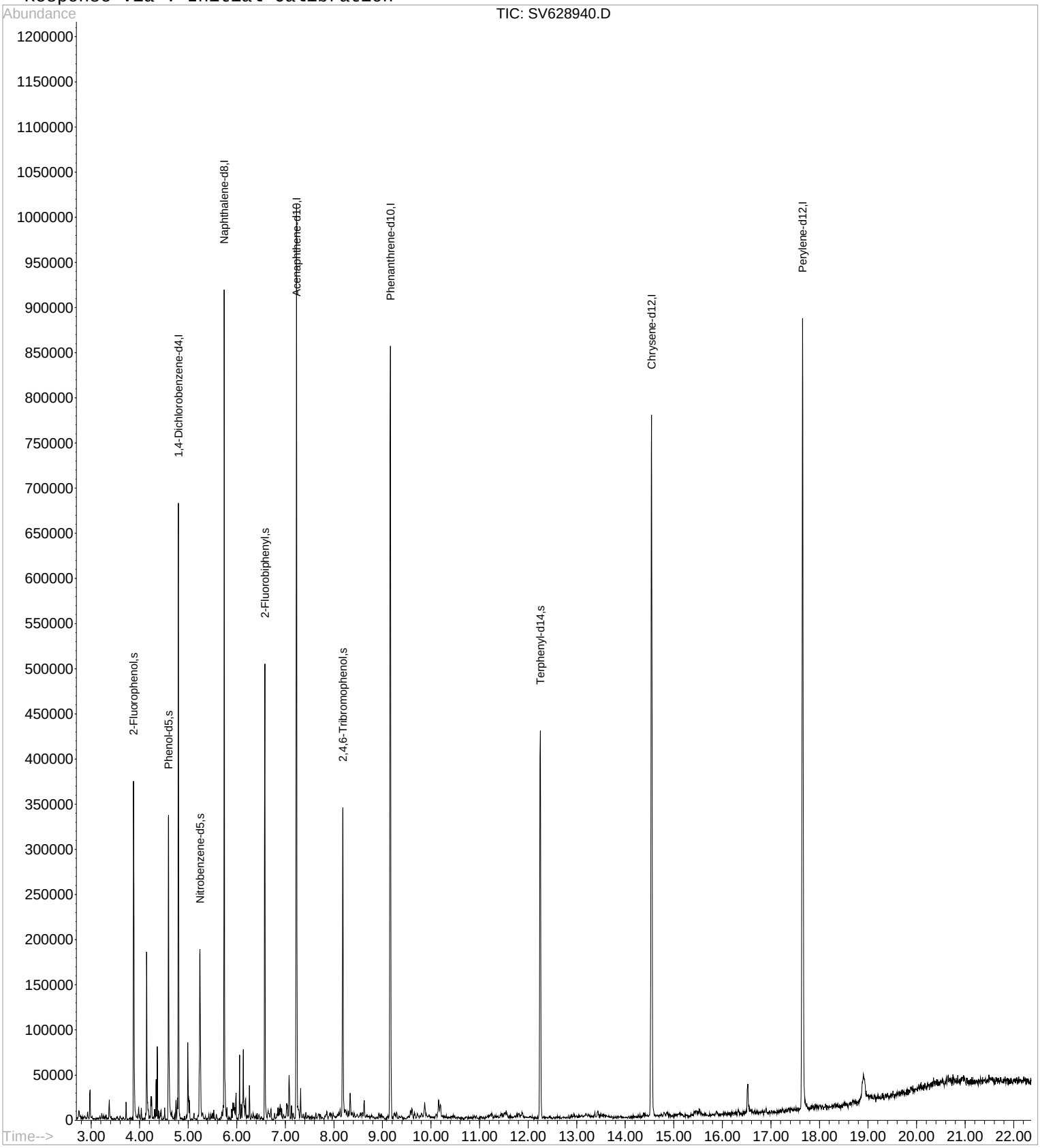
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	869232	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	3402516	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.23	164	2096369	40.00	ug/mL	-0.14
62) Phenanthrene-d10	9.16	188	4144958	40.00	ug/mL	-0.17
80) Chrysene-d12	14.54	240	4615451	40.00	ug/mL	-0.18
92) Perylene-d12	17.65	264	5455246	40.00	ug/mL	-0.16
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	904321	28.48	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 37.97%			
5) Phenol-d5	4.60	99	1177791	29.38	ug/mL	-0.07
Spiked Amount 75.000	Range 10 - 100		Recovery = 39.17%			
22) Nitrobenzene-d5	5.24	82	527864	17.61	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 35.22%			
45) 2-Fluorobiphenyl	6.58	172	1351232	18.66	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 37.32%			
67) 2,4,6-Tribromophenol	8.19	330	510315	48.59	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 64.79%			
82) Terphenyl-d14	12.25	244	2330769	20.73	ug/mL	-0.19
Spiked Amount 50.000	Range 35 - 127		Recovery = 41.46%			
Target Compounds						Qvalue

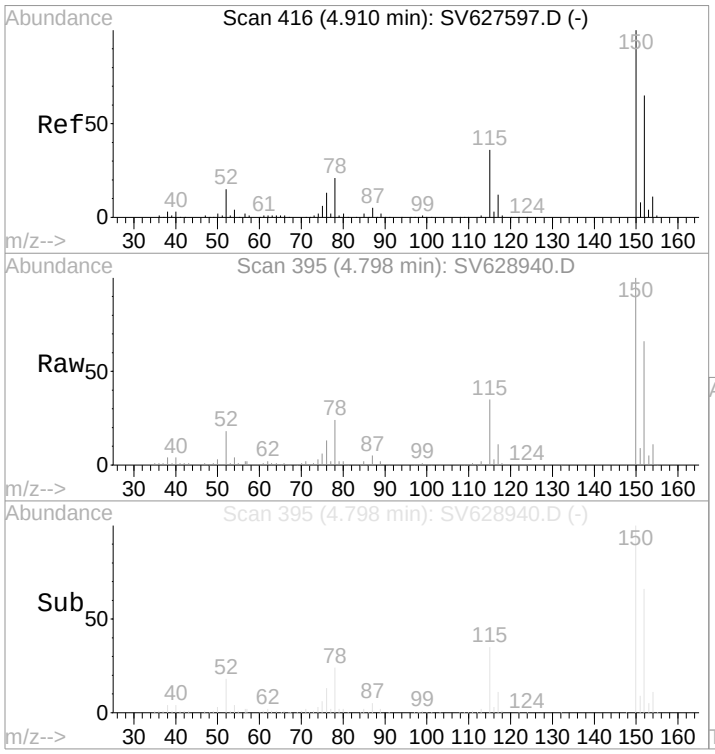
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628940.D Vial: 3
Acq On : 10 Feb 2020 4:10 pm Operator: OW
Sample : BB00363-BLK1 Inst : BNA#6
Misc : QBSV6021020A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 8:02 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration

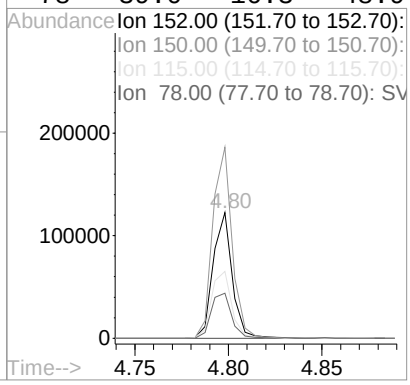


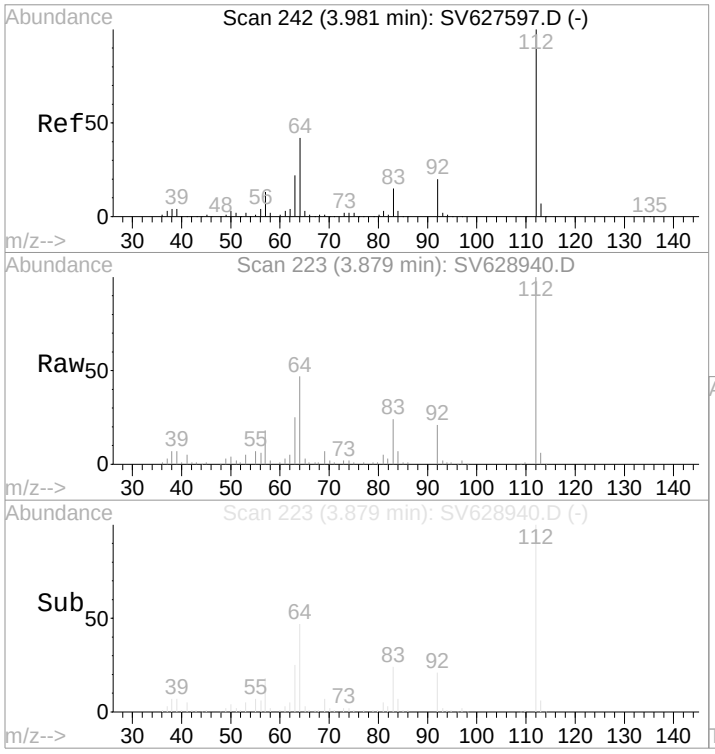


#1
1,4-Dichlorobenzene-d4
Concen: 40.00 ug/mL
RT: 4.80 min Scan# 395
Delta R.T. -0.11 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:152 Resp: 869232

Ion	Ratio	Lower	Upper
152	100		
150	153.5	84.8	254.4
115	56.5	27.5	82.4
78	39.0	16.3	48.9

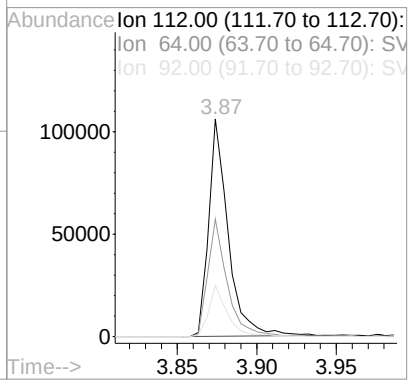


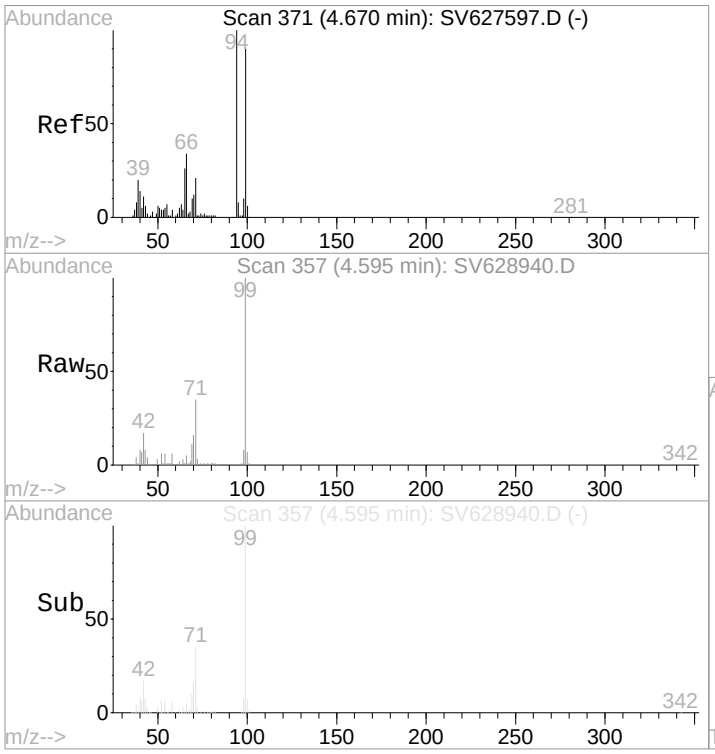


#4
2-Fluorophenol
Concen: N.D. ug/mL
RT: 3.88 min Scan# 223
Delta R.T. -0.10 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:112 Resp: 904321

Ion	Ratio	Lower	Upper
112	100		
64	53.7	36.6	54.8
92	23.3	16.2	24.4

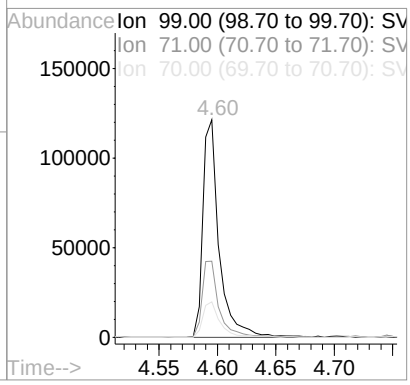


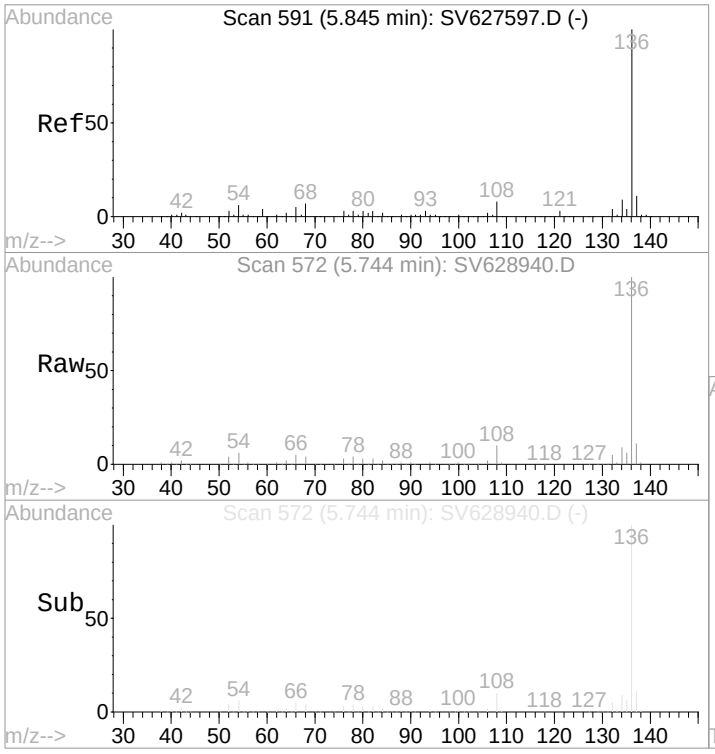


#5
Phenol-d5
Concen: N.D. ug/mL
RT: 4.60 min Scan# 357
Delta R.T. -0.07 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion: 99 Resp: 1177791

Ion	Ratio	Lower	Upper
99	100		
71	37.3	20.5	30.7#
70	17.5	10.3	15.5#

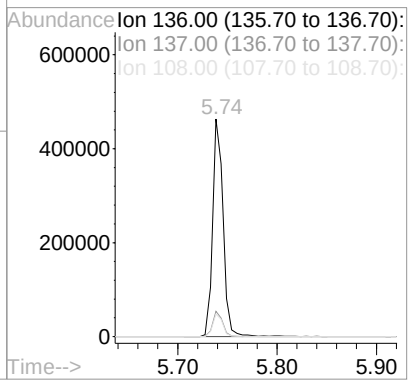


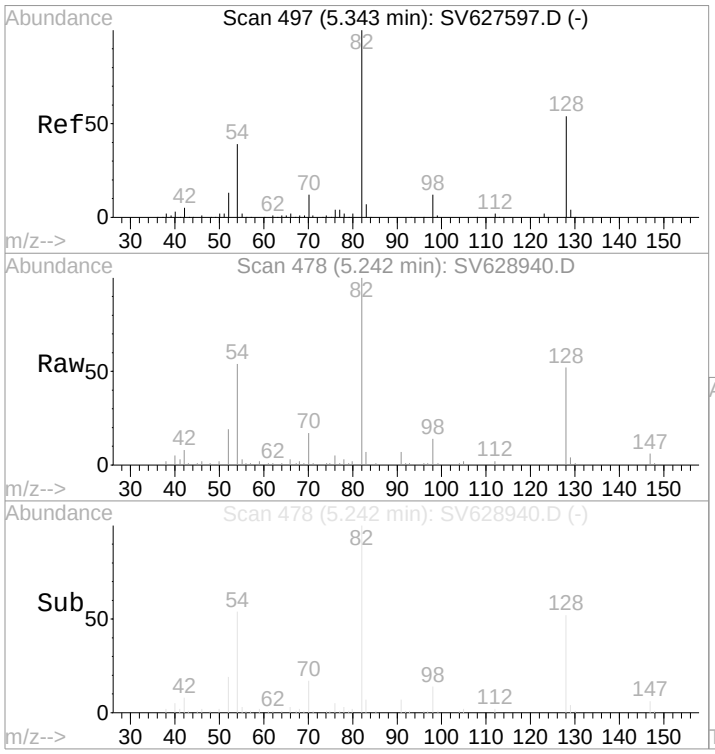


#21
Naphthalene-d8
Concen: 40.00 ug/mL
RT: 5.74 min Scan# 572
Delta R.T. -0.10 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:136 Resp: 3402516

Ion	Ratio	Lower	Upper
136	100		
137	11.2	5.7	17.0
108	10.0	4.2	12.4

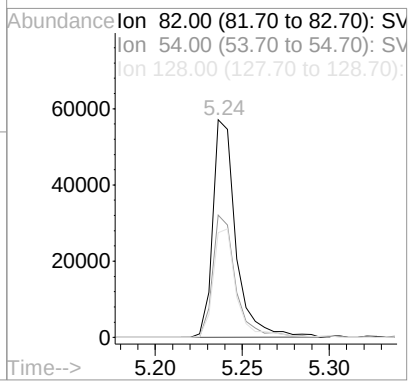


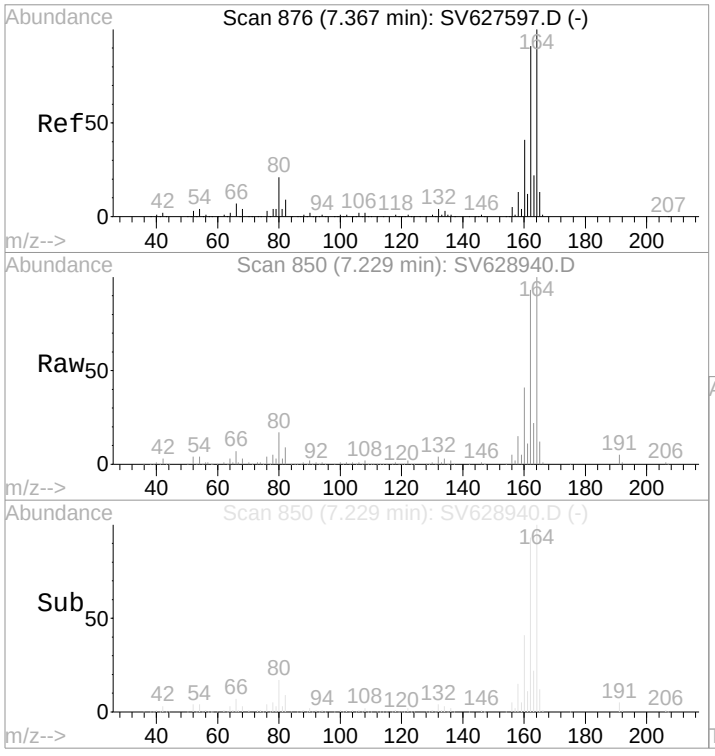


#22
Nitrobenzene-d5
Concen: 40.00 ug/mL
RT: 5.24 min Scan# 478
Delta R.T. -0.10 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion: 82 Resp: 527864

Ion	Ratio	Lower	Upper
82	100		
54	55.6	32.4	48.6#
128	48.9	41.3	61.9

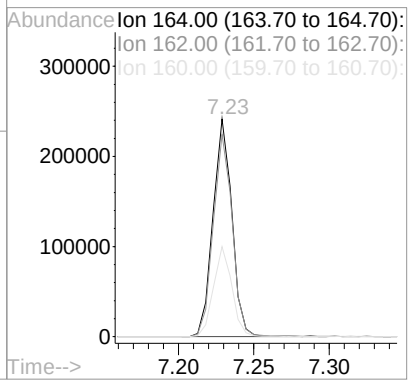


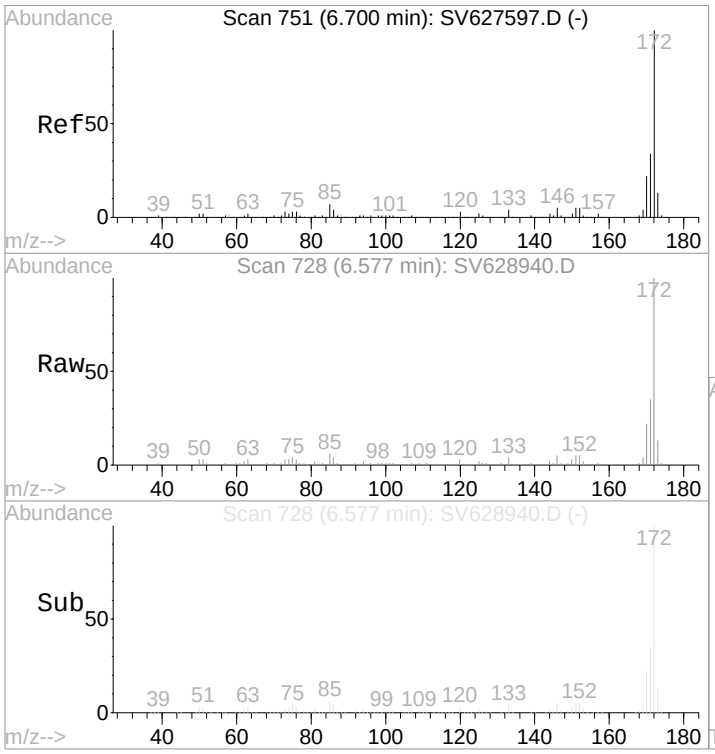


#39
Acenaphthene-d10
Concen: 40.00 ug/mL
RT: 7.23 min Scan# 850
Delta R.T. -0.14 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:164 Resp: 2096369

Ion	Ratio	Lower	Upper
164	100		
162	92.6	46.5	139.3
160	40.4	20.9	62.7

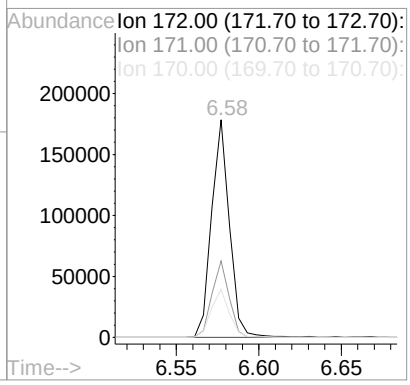


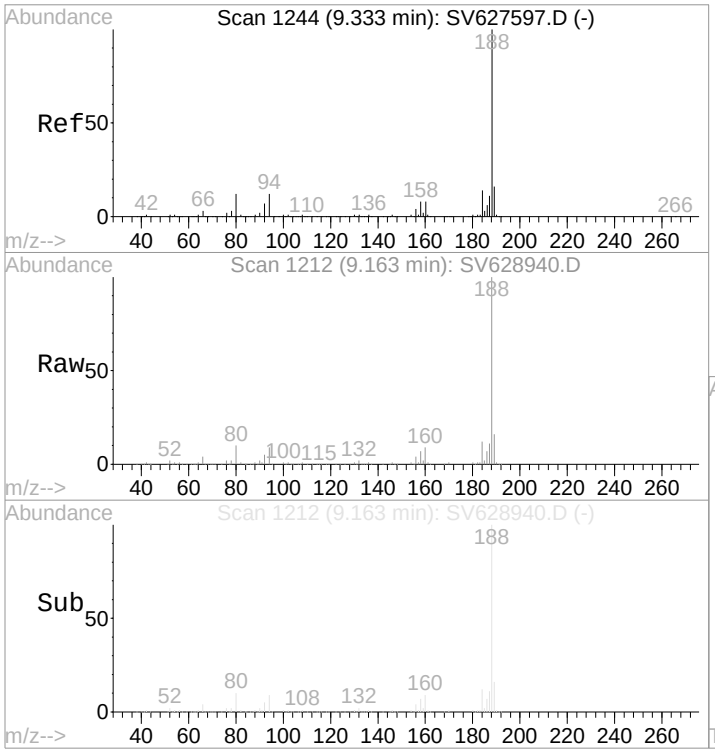


#45
2-Fluorobiphenyl
Concen: N.D. ug/mL
RT: 6.58 min Scan# 728
Delta R.T. -0.12 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:172 Resp: 1351232

Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.2	40.8
170	22.6	18.1	27.1

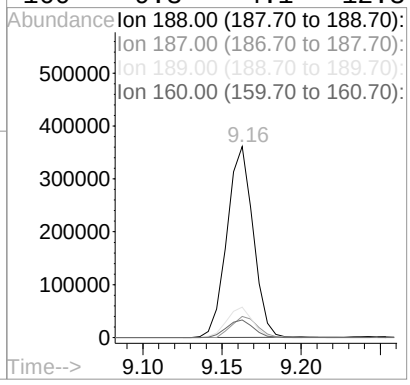


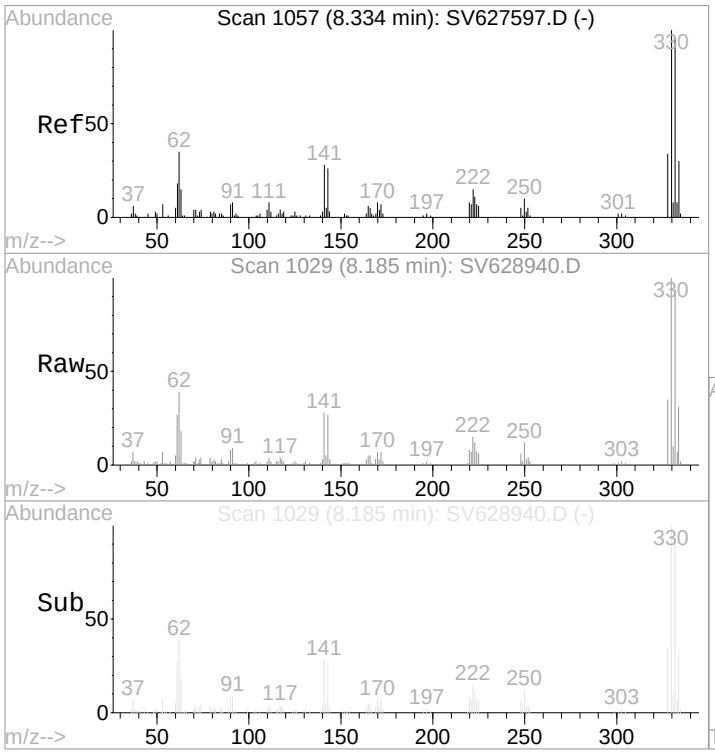


#62
Phenanthrene-d10
Concen: 40.00 ug/mL
RT: 9.16 min Scan# 1212
Delta R.T. -0.17 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:188 Resp: 4144958

Ion	Ratio	Lower	Upper
188	100		
187	10.8	8.4	12.6
189	15.7	8.0	23.8
160	9.3	4.1	12.3

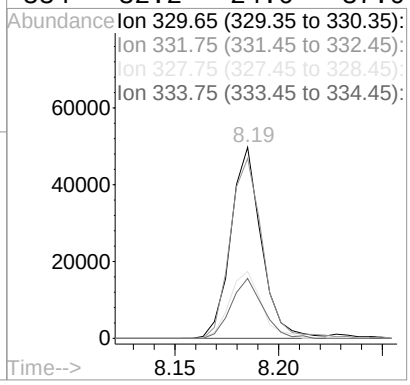


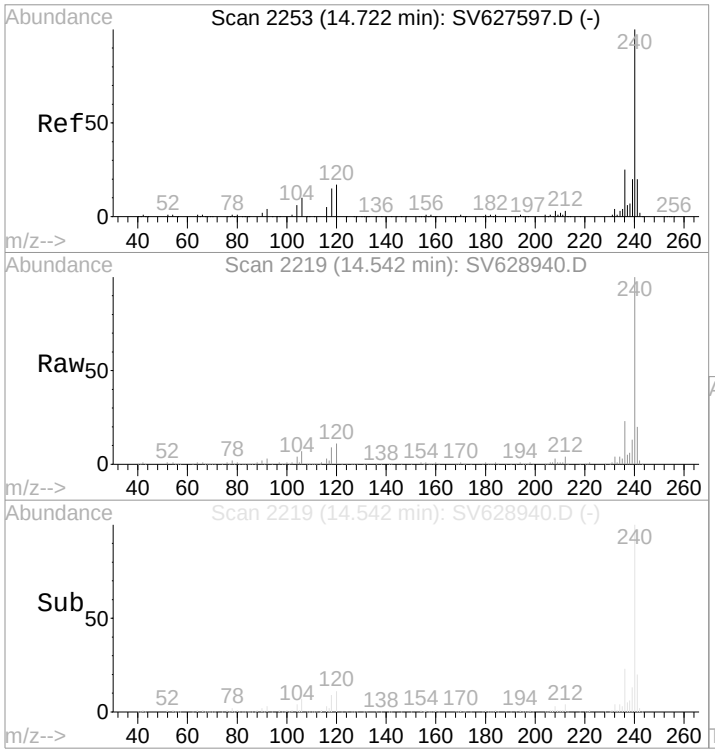


#67
2,4,6-Tribromophenol
Concen: N.D. ug/mL
RT: 8.19 min Scan# 1029
Delta R.T. -0.14 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:330 Resp: 510315

Ion	Ratio	Lower	Upper
330	100		
332	99.5	74.2	111.2
328	36.3	28.5	42.7
334	32.2	24.6	37.0

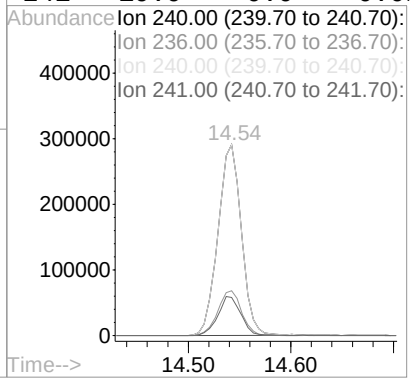


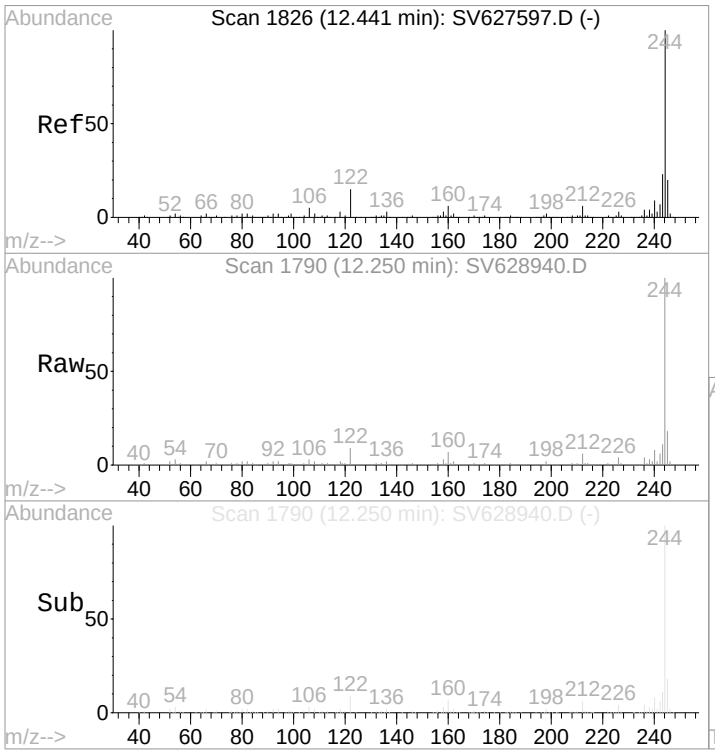


#80
Chrysene-d12
Concen: 40.00 ug/mL
RT: 14.54 min Scan# 2219
Delta R.T. -0.18 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:240 Resp: 4615451

Ion	Ratio	Lower	Upper
240	100		
236	23.8	12.2	36.4
240	100.0	50.0	150.0
241	19.9	0.0	0.0#

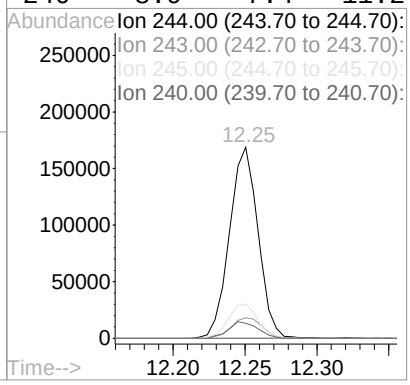


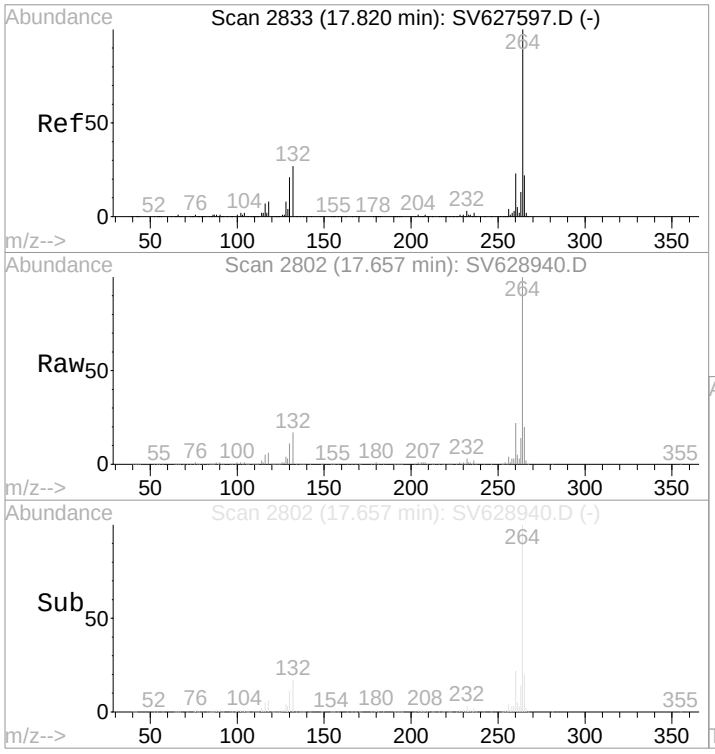


#82
Terphenyl-d14
Concen: N.D. ug/mL
RT: 12.25 min Scan# 1790
Delta R.T. -0.19 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:244 Resp: 2330769

Ion	Ratio	Lower	Upper
244	100		
243	11.7	18.4	27.6#
245	18.4	15.4	23.0
240	8.9	7.4	11.2

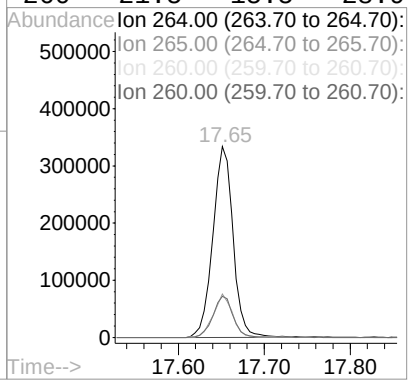




#92
Perylene-d12
Concen: 40.00 ug/mL
RT: 17.65 min Scan# 2802
Delta R.T. -0.16 min
Lab File: SV628940.D
Acq: 10 Feb 2020 4:10 pm

Tgt Ion:264 Resp: 5455246

Ion	Ratio	Lower	Upper
264	100		
265	21.6	0.0	0.0#
260	21.5	17.8	26.6
260	21.5	15.5	28.9



MATRIX SPIKE RAW DATA

SDG: 20B0093
CLASS: SVOA
METHOD: EPA 8270D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628956.D Vial: 19
Acq On : 11 Feb 2020 12:39 am Operator: OW
Sample : BB00363-MS1 Inst : BNA#6
Misc : QBSV6021020A 2X 20A0093-06 Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:50 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	1096816	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.75	136	4274704	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2736218	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	5888872	40.00	ug/mL	-0.16
80) Chrysene-d12	14.57	240	6463250	40.00	ug/mL	-0.16
92) Perylene-d12	17.68	264	7356190	40.00	ug/mL	-0.14
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	441266	11.01	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 14.68%#			
5) Phenol-d5	4.60	99	594364	11.75	ug/mL	-0.06
Spiked Amount 75.000	Range 10 - 100		Recovery = 15.67%			
22) Nitrobenzene-d5	5.24	82	271289	7.20	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 14.40%#			
45) 2-Fluorobiphenyl	6.58	172	667060	7.06	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 14.12%#			
67) 2,4,6-Tribromophenol	8.19	330	291009	19.50	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 26.00%#			
82) Terphenyl-d14	12.26	244	1271179	8.07	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery = 16.14%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.74	74	151061	6.01	ug/mL#	78
3) Pyridine	2.75	79	271095m	6.29	ug/mL	
6) Benzaldehyde	4.49	105	225883	7.81	ug/mL	100
7) Aniline	4.60	93	306329	5.28	ug/mL#	1
8) Phenol	4.61	94	397772	7.33	ug/mL#	42
9) Bis(2-chloroethyl)ether	4.63	93	258211	6.76	ug/mL#	80
10) 2-Chlorophenol	4.69	128	307950	6.97	ug/mL#	92
11) 1,3-Dichlorobenzene	4.77	146	304691	6.38	ug/mL	99
12) 1,4-Dichlorobenzene	4.81	146	319735	7.00	ug/mL	92
13) Benzyl Alcohol	4.93	108	173436	6.99	ug/mL#	75
14) 1,2-Dichlorobenzene	4.96	146	295670	6.56	ug/mL	95
15) 2-Methylphenol	5.04	107	258078	6.65	ug/mL#	79
16) Acetophenone	5.12	105	390852	6.86	ug/mL	95
17) Bis(2-chloroisopropyl) eth	5.03	45	277903	8.08	ug/mL#	68
18) N-Nitroso-di-n-propylamine	5.13	70	210887	7.61	ug/mL	91
19) 4-Methylphenol	5.15	107	347458	6.04	ug/mL#	64
20) Hexachloroethane	5.17	117	87158	4.87	ug/mL#	83
23) Nitrobenzene	5.26	77	323973	7.98	ug/mL#	87
24) Isophorone	5.41	82	588031	8.10	ug/mL#	94
25) 2-Nitrophenol	5.49	139	130738	5.99	ug/mL#	90
26) 2,4-Dimethylphenol	5.52	122	241628	6.25	ug/mL	86
27) Bis(2-chloroethoxy) methan	5.57	93	329464	7.06	ug/mL	93
28) Benzoic acid	5.62	105	55179m	1.70	ug/mL	
29) 2,4-Dichlorophenol	5.68	162	299054	8.63	ug/mL#	93
30) 1,2,4-Trichlorobenzene	5.71	180	304339	8.44	ug/mL	99
32) Naphthalene	5.76	128	872011	7.92	ug/mL#	96
33) 4-Chloroaniline	5.82	127	351824	6.93	ug/mL#	95
34) Hexachlorobutadiene	5.87	225	188130	9.60	ug/mL	97
35) Caprolactam	6.06	113	110183	7.89	ug/mL#	73
36) 4-Chloro-3-methylphenol	6.19	107	304511	8.33	ug/mL	98
37) 1-Methylnaphthalene	6.36	141	620169	7.97	ug/mL	95
38) 2-Methylnaphthalene	6.27	142	707484m	9.10	ug/mL	
40) 1,2,4,5-tetrachlorobenzene	6.45	216	344772	8.71	ug/mL	99
42) Biphenyl	6.66	153	330058	7.34	ug/mL	95
43) 2,4,6-Trichlorophenol	6.54	196	245957	9.25	ug/mL	96
44) 2,4,5-Trichlorophenol	6.59	196	253505m	7.52	ug/mL	

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628956.D Vial: 19
Acq On : 11 Feb 2020 12:39 am Operator: OW
Sample : BB00363-MS1 Inst : BNA#6
Misc : QBSV6021020A 2X 20A0093-06 Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:50 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

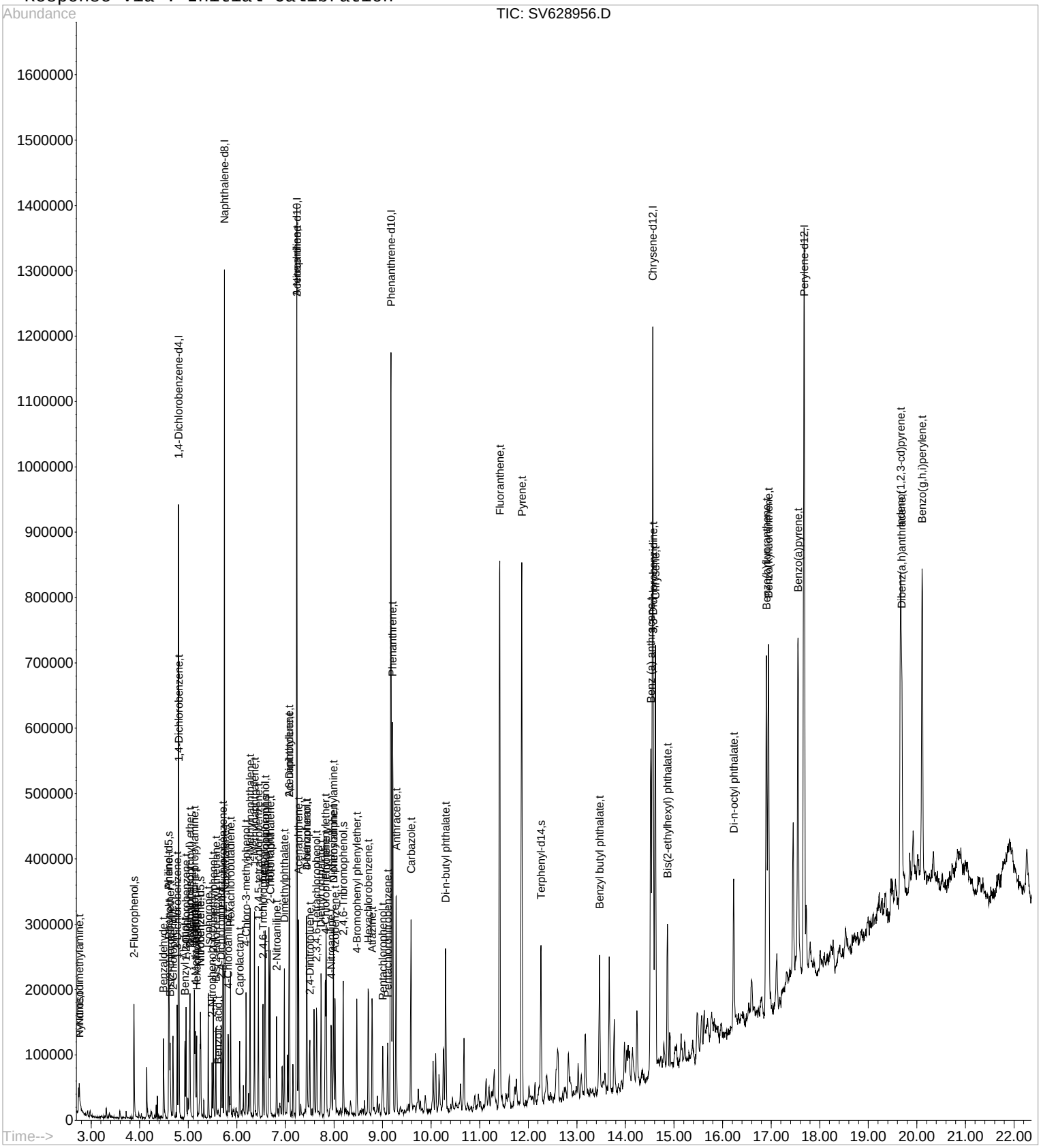
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 2-Chloronaphthalene	6.69	162	665934	7.59	ug/mL	98
47) 2-Nitroaniline	6.82	138	256718	8.25	ug/mL#	87
48) Dimethylphthalate	6.98	163	805250	7.80	ug/mL	99
49) 2,6-Dinitrotoluene	7.07	165	161793	7.31	ug/mL#	71
50) Acenaphthylene	7.08	152	1649207	11.55	ug/mL	99
51) 3-Nitroaniline	7.23	138	226301	8.26	ug/mL#	81
52) Acenaphthene	7.27	154	646653	8.07	ug/mL	99
54) Dibenzofuran	7.44	168	1061229	8.55	ug/mL#	79
55) 2,4-Dinitrotoluene	7.50	165	224059	7.69	ug/mL#	95
56) 4-Nitrophenol	7.45	65	151278	8.54	ug/mL#	1
57) 2,3,4,6-Tetrachlorophenol	7.64	131	98259	10.05	ug/mL#	96
58) Diethyl phthalate	7.74	149	790838	7.78	ug/mL	99
59) Fluorene	7.84	166	912481	9.15	ug/mL	94
60) 4-Chlorophenyl phenylether	7.82	204	426225	8.64	ug/mL	98
61) 4-Nitroaniline	7.94	138	260425	9.28	ug/mL#	87
64) Diphenylamine	7.99	169	746173	8.68	ug/mL	99
65) N-Nitrosodiphenylamine	7.99	167	252017	8.65	ug/mL	98
66) Azobenzene	8.02	77	698764	6.43	ug/mL#	90
68) 4-Bromophenyl phenylether	8.47	248	283097	8.38	ug/mL	95
69) Atrazine	8.79	200	249213	6.94	ug/mL	96
70) Hexachlorobenzene	8.71	142	101161	7.24	ug/mL	65
71) Pentachlorophenol	9.00	266	156543m	8.07	ug/mL	
72) Pentachloronitrobenzene	9.11	237	95608	7.43	ug/mL	89
73) Phenanthrene	9.21	178	2814201	17.89	ug/mL	99
74) Anthracene	9.28	178	1703330	10.23	ug/mL#	97
75) Carbazole	9.59	167	1591636	9.20	ug/mL#	100
76) Di-n-butyl phthalate	10.30	149	1446043	6.92	ug/mL	98
78) Fluoranthene	11.41	202	5311700	28.56	ug/mL	100
81) Pyrene	11.87	202	5038481	21.08	ug/mL	98
83) Benzyl butyl phthalate	13.47	149	724124	6.25	ug/mL#	96
84) Bis(2-ethylhexyl) phthalat	14.87	149	1000593	6.48	ug/mL#	94
85) Benz (a) anthracene	14.52	228	3275561	15.11	ug/mL	93
86) 3,3-Dichlorobenzidine	14.58	252	421343	5.40	ug/mL	99
87) Chrysene	14.62	228	3828433	18.33	ug/mL	98
88) Di-n-octyl phthalate	16.23	149	1791516	7.67	ug/mL#	95
89) Benzo(b)fluoranthene	16.90	252	3755332	19.09	ug/mL#	94
90) Benzo(k)fluoranthene	16.95	252	3904819m	16.66	ug/mL	
91) Benzo(a)pyrene	17.56	252	3679525m	18.79	ug/mL	
93) Indeno(1,2,3-cd)pyrene	19.67	276	3563203	15.80	ug/mL#	75
94) Dibenz(a,h)anthracene	19.69	278	2436897	15.11	ug/mL#	87
95) Benzo(g,h,i)perylene	20.11	276	3370022	15.83	ug/mL#	91

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628956.D Vial: 19
Acq On : 11 Feb 2020 12:39 am Operator: OW
Sample : BB00363-MS1 Inst : BNA#6
Misc : QBSV6021020A 2X 20A0093-06 Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:50 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628957.D Vial: 20
Acq On : 11 Feb 2020 1:11 am Operator: OW
Sample : BB00363-MSD1 Inst : BNA#6
Misc : QBSV6021020A 2X 20A0093-06 Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:51 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	1078090	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.75	136	4345982	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.24	164	2781228	40.00	ug/mL	-0.13
62) Phenanthrene-d10	9.17	188	5933374	40.00	ug/mL	-0.16
80) Chrysene-d12	14.56	240	6547792	40.00	ug/mL	-0.16
92) Perylene-d12	17.68	264	7225798	40.00	ug/mL	-0.14
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	549619	13.96	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 18.61%			
5) Phenol-d5	4.60	99	764396	15.37	ug/mL	-0.06
Spiked Amount 75.000	Range 10 - 100		Recovery = 20.49%			
22) Nitrobenzene-d5	5.24	82	321847	8.41	ug/mL	-0.10
Spiked Amount 50.000	Range 26 - 120		Recovery = 16.82%#			
45) 2-Fluorobiphenyl	6.58	172	815697	8.49	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 16.98%#			
67) 2,4,6-Tribromophenol	8.19	330	412994	27.47	ug/mL	-0.14
Spiked Amount 75.000	Range 35 - 126		Recovery = 36.63%			
82) Terphenyl-d14	12.26	244	1622384	10.17	ug/mL	-0.18
Spiked Amount 50.000	Range 35 - 127		Recovery = 20.34%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.74	74	164592	6.66	ug/mL#	54
3) Pyridine	2.75	79	258126m	6.10	ug/mL	
6) Benzaldehyde	4.49	105	267252	9.40	ug/mL	93
7) Aniline	4.60	93	369882	6.48	ug/mL#	1
8) Phenol	4.61	94	467854	8.78	ug/mL#	42
9) Bis(2-chloroethyl)ether	4.63	93	292394	7.79	ug/mL	96
10) 2-Chlorophenol	4.69	128	355873	8.20	ug/mL#	93
11) 1,3-Dichlorobenzene	4.77	146	355098	7.57	ug/mL	98
12) 1,4-Dichlorobenzene	4.81	146	351705	7.83	ug/mL	96
13) Benzyl Alcohol	4.93	108	230532	9.45	ug/mL#	88
14) 1,2-Dichlorobenzene	4.96	146	345060	7.79	ug/mL	98
15) 2-Methylphenol	5.04	107	295027m	7.73	ug/mL	
16) Acetophenone	5.12	105	472449	8.44	ug/mL	94
17) Bis(2-chloroisopropyl) eth	5.03	45	347280	10.28	ug/mL#	72
18) N-Nitroso-di-n-propylamine	5.13	70	257582	9.45	ug/mL#	86
19) 4-Methylphenol	5.15	107	392360	6.93	ug/mL#	64
20) Hexachloroethane	5.17	117	106994	6.09	ug/mL#	90
23) Nitrobenzene	5.26	77	375235	9.09	ug/mL#	87
24) Isophorone	5.41	82	703397	9.52	ug/mL	97
25) 2-Nitrophenol	5.49	139	163436	7.36	ug/mL#	92
26) 2,4-Dimethylphenol	5.52	122	280296	7.13	ug/mL	87
27) Bis(2-chloroethoxy) methan	5.57	93	388487	8.19	ug/mL	91
28) Benzoic acid	5.62	105	39287	1.19	ug/mL#	12
29) 2,4-Dichlorophenol	5.68	162	369389	10.49	ug/mL#	92
30) 1,2,4-Trichlorobenzene	5.71	180	365876	9.98	ug/mL	97
32) Naphthalene	5.76	128	1077713	9.63	ug/mL	97
33) 4-Chloroaniline	5.82	127	394619	7.64	ug/mL#	91
34) Hexachlorobutadiene	5.87	225	211055	10.60	ug/mL	96
35) Caprolactam	6.06	113	128207	9.03	ug/mL#	72
36) 4-Chloro-3-methylphenol	6.19	107	371340	9.99	ug/mL	96
37) 1-Methylnaphthalene	6.36	141	703405	8.90	ug/mL	98
38) 2-Methylnaphthalene	6.27	142	797193	10.09	ug/mL	97
40) 1,2,4,5-tetrachlorobenzene	6.45	216	409216	10.17	ug/mL	97
42) Biphenyl	6.66	153	397447	8.69	ug/mL	98
43) 2,4,6-Trichlorophenol	6.54	196	297380	11.00	ug/mL	99
44) 2,4,5-Trichlorophenol	6.59	196	328622m	9.59	ug/mL	

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628957.D Vial: 20
Acq On : 11 Feb 2020 1:11 am Operator: OW
Sample : BB00363-MSD1 Inst : BNA#6
Misc : QBSV6021020A 2X 20A0093-06 Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:51 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

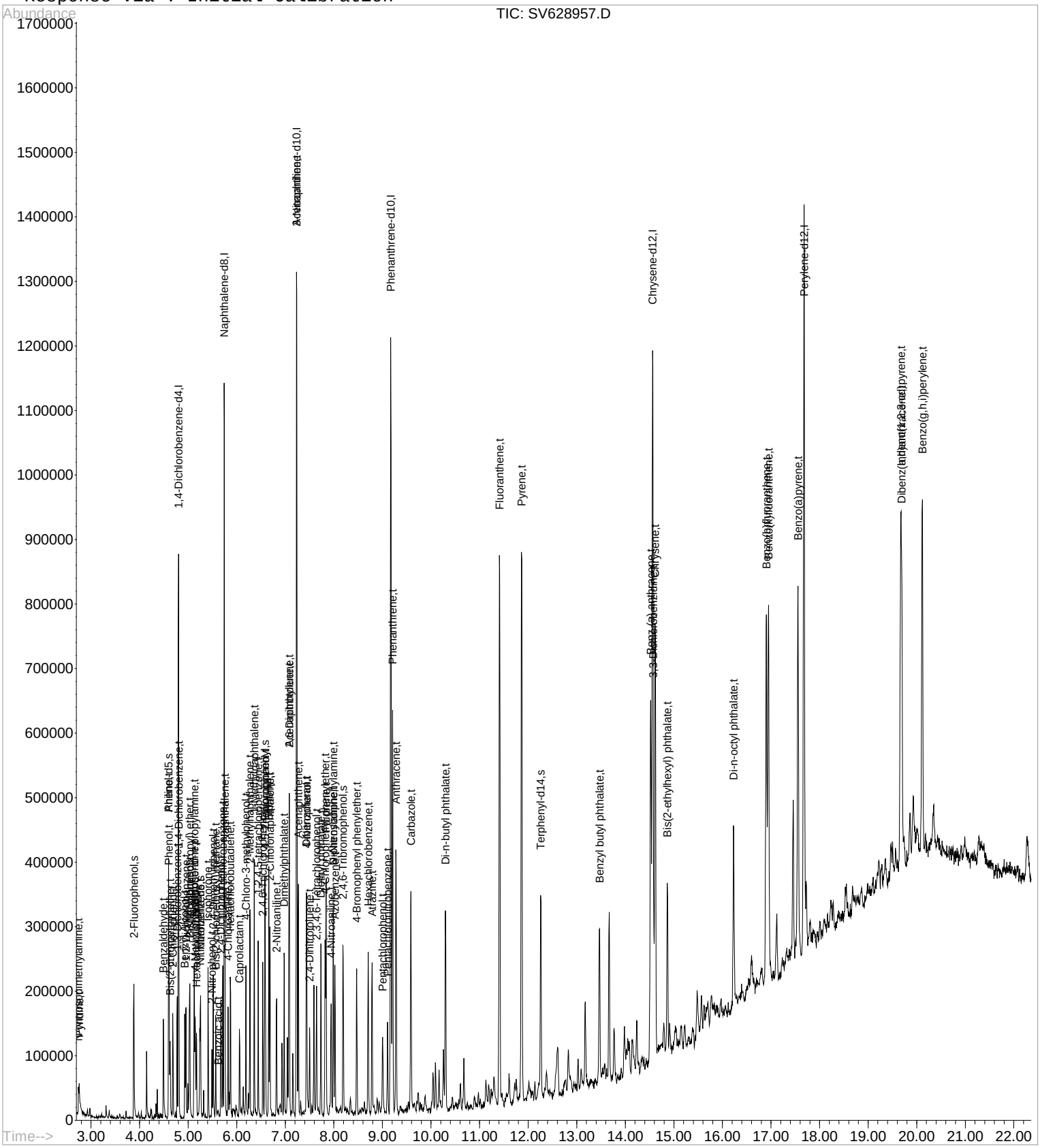
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	2-Chloronaphthalene	6.69	162	770896	8.64	ug/mL	97
47)	2-Nitroaniline	6.82	138	317430	10.03	ug/mL#	86
48)	Dimethylphthalate	6.98	163	970323	9.24	ug/mL	99
49)	2,6-Dinitrotoluene	7.07	165	206343	9.18	ug/mL#	78
50)	Acenaphthylene	7.08	152	1790190	12.33	ug/mL	99
51)	3-Nitroaniline	7.23	138	272187	9.78	ug/mL#	82
52)	Acenaphthene	7.27	154	788112	9.68	ug/mL	99
54)	Dibenzofuran	7.44	168	1303307	10.34	ug/mL#	81
55)	2,4-Dinitrotoluene	7.50	165	265548	8.96	ug/mL#	93
56)	4-Nitrophenol	7.45	65	183600	10.19	ug/mL#	2
57)	2,3,4,6-Tetrachlorophenol	7.65	131	127394	12.81	ug/mL#	92
58)	Diethyl phthalate	7.74	149	998634	9.67	ug/mL	99
59)	Fluorene	7.84	166	1118058	11.03	ug/mL	97
60)	4-Chlorophenyl phenylether	7.82	204	510664	10.18	ug/mL	98
61)	4-Nitroaniline	7.94	138	306769	10.75	ug/mL#	84
64)	Diphenylamine	7.99	169	923614	10.67	ug/mL	99
65)	N-Nitrosodiphenylamine	7.99	167	325500	11.09	ug/mL	96
66)	Azobenzene	8.02	77	866280	7.92	ug/mL#	90
68)	4-Bromophenyl phenylether	8.47	248	363137	10.67	ug/mL#	94
69)	Atrazine	8.79	200	342377	9.47	ug/mL	95
70)	Hexachlorobenzene	8.71	142	127507	9.06	ug/mL	62
71)	Pentachlorophenol	9.00	266	180194m	9.22	ug/mL	
72)	Pentachloronitrobenzene	9.11	237	117775	9.08	ug/mL	92
73)	Phenanthrene	9.21	178	3011975	19.00	ug/mL	99
74)	Anthracene	9.28	178	2108374	12.56	ug/mL	99
75)	Carbazole	9.59	167	1801875	10.34	ug/mL#	100
76)	Di-n-butyl phthalate	10.30	149	1780643	8.45	ug/mL	98
78)	Fluoranthene	11.41	202	5333228	28.46	ug/mL	99
81)	Pyrene	11.87	202	5318154	21.96	ug/mL	98
83)	Benzyl butyl phthalate	13.47	149	889918	7.58	ug/mL	96
84)	Bis(2-ethylhexyl) phthalat	14.87	149	1232693	7.88	ug/mL#	93
85)	Benz (a) anthracene	14.53	228	3712474	16.90	ug/mL	93
86)	3,3-Dichlorobenzidine	14.58	252	474028	5.99	ug/mL#	96
87)	Chrysene	14.62	228	3971415	18.77	ug/mL	97
88)	Di-n-octyl phthalate	16.23	149	2226569	9.41	ug/mL#	95
89)	Benzo(b)fluoranthene	16.91	252	4130699	20.72	ug/mL#	94
90)	Benzo(k)fluoranthene	16.95	252	4042557m	17.02	ug/mL	
91)	Benzo(a)pyrene	17.56	252	4029927m	20.31	ug/mL	
93)	Indeno(1,2,3-cd)pyrene	19.67	276	4100473	18.52	ug/mL#	76
94)	Dibenz(a,h)anthracene	19.69	278	2877857	18.17	ug/mL#	90
95)	Benzo(g,h,i)perylene	20.12	276	3932427	18.80	ug/mL#	90

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628957.D Vial: 20
Acq On : 11 Feb 2020 1:11 am Operator: OW
Sample : BB00363-MSD1 Inst : BNA#6
Misc : QBSV6021020A 2X 20A0093-06 Multiplr: 2.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 13:51 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



LCS RAW DATA

SDG: 20B0093
CLASS: SVOA
METHOD: EPA 8270D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628941.D Vial: 4
Acq On : 10 Feb 2020 4:42 pm Operator: OW
Sample : BB00363-BS1 Inst : BNA#6
Misc : QBSV6021020A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 8:03 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.80	152	919227	40.00	ug/mL	-0.11
21) Naphthalene-d8	5.74	136	3526371	40.00	ug/mL	-0.10
39) Acenaphthene-d10	7.23	164	2129426	40.00	ug/mL	-0.14
62) Phenanthrene-d10	9.16	188	4495738	40.00	ug/mL	-0.17
80) Chrysene-d12	14.54	240	4832995	40.00	ug/mL	-0.18
92) Perylene-d12	17.65	264	5648594	40.00	ug/mL	-0.16
System Monitoring Compounds						
4) 2-Fluorophenol	3.88	112	844120	25.14	ug/mL	-0.10
Spiked Amount 75.000	Range 15 - 87		Recovery = 33.52%			
5) Phenol-d5	4.59	99	1145972	27.03	ug/mL	-0.07
Spiked Amount 75.000	Range 10 - 100		Recovery = 36.04%			
22) Nitrobenzene-d5	5.24	82	481500	15.50	ug/mL	-0.11
Spiked Amount 50.000	Range 26 - 120		Recovery = 31.00%			
45) 2-Fluorobiphenyl	6.58	172	1207476	16.42	ug/mL	-0.12
Spiked Amount 50.000	Range 29 - 120		Recovery = 32.84%			
67) 2,4,6-Tribromophenol	8.19	330	491202	43.12	ug/mL	-0.15
Spiked Amount 75.000	Range 35 - 126		Recovery = 57.49%			
82) Terphenyl-d14	12.25	244	2087410	17.73	ug/mL	-0.19
Spiked Amount 50.000	Range 35 - 127		Recovery = 35.46%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.74	74	263342	12.51	ug/mL#	71
3) Pyridine	2.74	79	341324m	9.45	ug/mL	
6) Benzaldehyde	4.49	105	401196	16.55	ug/mL	96
7) Aniline	4.59	93	477450	9.81	ug/mL#	1
8) Phenol	4.60	94	654731	14.40	ug/mL#	37
9) Bis(2-chloroethyl)ether	4.63	93	426831	13.34	ug/mL	91
10) 2-Chlorophenol	4.68	128	535469	14.46	ug/mL#	93
11) 1,3-Dichlorobenzene	4.77	146	575112	14.38	ug/mL	97
12) 1,4-Dichlorobenzene	4.81	146	585665	15.29	ug/mL	99
13) Benzyl Alcohol	4.93	108	335465	16.12	ug/mL	88
14) 1,2-Dichlorobenzene	4.95	146	573065	15.18	ug/mL	98
15) 2-Methylphenol	5.03	107	416452	12.80	ug/mL#	76
16) Acetophenone	5.12	105	703940	14.74	ug/mL	92
17) Bis(2-chloroisopropyl) eth	5.02	45	509842	17.70	ug/mL#	63
18) N-Nitroso-di-n-propylamine	5.13	70	357994	15.40	ug/mL#	84
19) 4-Methylphenol	5.14	107	545894	11.32	ug/mL#	63
20) Hexachloroethane	5.17	117	219929	14.67	ug/mL	91
23) Nitrobenzene	5.25	77	533102	15.91	ug/mL#	88
24) Isophorone	5.41	82	1022627	17.07	ug/mL#	96
25) 2-Nitrophenol	5.49	139	294135	16.33	ug/mL#	88
26) 2,4-Dimethylphenol	5.51	122	460383	14.44	ug/mL	93
27) Bis(2-chloroethoxy) methan	5.57	93	572279	14.88	ug/mL	95
28) Benzoic acid	5.60	105	164129	6.14	ug/mL	82
29) 2,4-Dichlorophenol	5.67	162	516556	18.08	ug/mL#	94
30) 1,2,4-Trichlorobenzene	5.71	180	525621	17.68	ug/mL	97
32) Naphthalene	5.76	128	1522938	16.76	ug/mL	98
33) 4-Chloroaniline	5.82	127	481131	11.49	ug/mL#	93
34) Hexachlorobutadiene	5.87	225	327653	20.27	ug/mL	98
35) Caprolactam	6.05	113	182319	15.83	ug/mL#	65
36) 4-Chloro-3-methylphenol	6.19	107	552184	18.32	ug/mL	91
37) 1-Methylnaphthalene	6.36	141	1028261	16.03	ug/mL	95
38) 2-Methylnaphthalene	6.27	142	1192946	18.60	ug/mL	97
40) 1,2,4,5-tetrachlorobenzene	6.44	216	603501	19.58	ug/mL	98
41) Hexachlorocyclopentadiene	6.44	237	157710	8.50	ug/mL	93
42) Biphenyl	6.66	153	577147	16.49	ug/mL	95
43) 2,4,6-Trichlorophenol	6.54	196	405898	19.61	ug/mL	97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\SV628941.D Vial: 4
Acq On : 10 Feb 2020 4:42 pm Operator: OW
Sample : BB00363-BS1 Inst : BNA#6
Misc : QBSV6021020A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 8:03 2020 Quant Results File: BNA6M039.RES

Quant Method : C:\HPCHEM\1...\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration
DataAcq Meth : BNA6ACQ

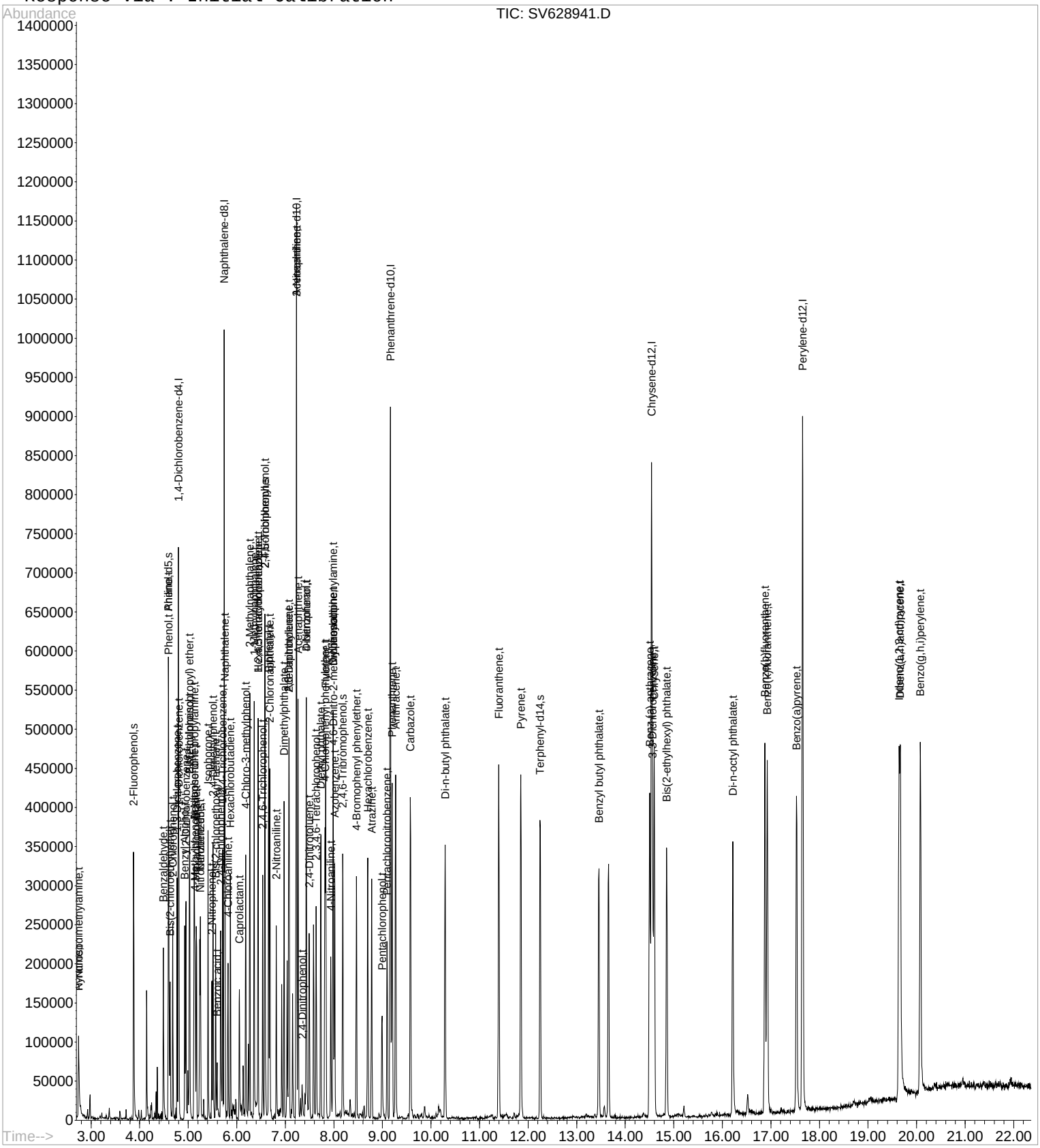
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2,4,5-Trichlorophenol	6.58	196	439846	16.76	ug/mL	97
46) 2-Chloronaphthalene	6.68	162	1110084	16.25	ug/mL	99
47) 2-Nitroaniline	6.82	138	411163	16.98	ug/mL#	88
48) Dimethylphthalate	6.98	163	1409551	17.54	ug/mL	100
49) 2,6-Dinitrotoluene	7.07	165	322247	18.72	ug/mL	87
50) Acenaphthylene	7.08	152	1826336	16.43	ug/mL	99
51) 3-Nitroaniline	7.22	138	308415	14.47	ug/mL#	72
52) Acenaphthene	7.26	154	1108361	17.78	ug/mL	98
53) 2,4-Dinitrophenol	7.35	184	97086	19.10	ug/mL	89
54) Dibenzofuran	7.43	168	1774518	18.38	ug/mL#	80
55) 2,4-Dinitrotoluene	7.49	165	447687	19.74	ug/mL	97
56) 4-Nitrophenol	7.43	65	238564	17.30	ug/mL#	1
57) 2,3,4,6-Tetrachlorophenol	7.64	131	158236	20.79	ug/mL	100
58) Diethyl phthalate	7.73	149	1408955	17.81	ug/mL	99
59) Fluorene	7.83	166	1421244	18.32	ug/mL	99
60) 4-Chlorophenyl phenylether	7.82	204	728402	18.97	ug/mL	98
61) 4-Nitroaniline	7.94	138	371792	17.02	ug/mL#	85
63) 4,6-Dinitro-2-methylphenol	7.99	198	186951	21.11	ug/mL	91
64) Diphenylamine	7.98	169	1285648	19.59	ug/mL	98
65) N-Nitrosodiphenylamine	7.98	167	431324	19.39	ug/mL	98
66) Azobenzene	8.02	77	1242683	14.99	ug/mL#	92
68) 4-Bromophenyl phenylether	8.47	248	473110	18.35	ug/mL#	93
69) Atrazine	8.78	200	452277	16.50	ug/mL	95
70) Hexachlorobenzene	8.70	142	169921	15.94	ug/mL	63
71) Pentachlorophenol	8.99	266	263664m	17.81	ug/mL	
72) Pentachloronitrobenzene	9.10	237	193238	19.67	ug/mL	90
73) Phenanthrene	9.20	178	2171351	18.08	ug/mL	99
74) Anthracene	9.27	178	2252416	17.71	ug/mL	98
75) Carbazole	9.58	167	2206461	16.70	ug/mL#	96
76) Di-n-butyl phthalate	10.29	149	2503200	15.68	ug/mL	99
78) Fluoranthene	11.40	202	2808149	19.77	ug/mL	98
81) Pyrene	11.85	202	2782683	15.57	ug/mL	99
83) Benzyl butyl phthalate	13.46	149	1213777	14.01	ug/mL	98
84) Bis(2-ethylhexyl) phthalat	14.86	149	1687707	14.61	ug/mL#	97
85) Benz (a) anthracene	14.50	228	2794138	17.23	ug/mL	100
86) 3,3-Dichlorobenzidine	14.57	252	947898	16.24	ug/mL#	97
87) Chrysene	14.60	228	2722228	17.43	ug/mL	99
88) Di-n-octyl phthalate	16.22	149	2941352	16.84	ug/mL#	96
89) Benzo(b)fluoranthene	16.88	252	3016892	20.50	ug/mL#	94
90) Benzo(k)fluoranthene	16.92	252	3175220m	18.11	ug/mL	
91) Benzo(a)pyrene	17.53	252	2800562	19.13	ug/mL#	93
93) Indeno(1,2,3-cd)pyrene	19.64	276	3794384	21.92	ug/mL#	78
94) Dibenz(a,h)anthracene	19.67	278	3063749	24.74	ug/mL#	89
95) Benzo(g,h,i)perylene	20.08	276	3188722	19.50	ug/mL#	91

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021020A\SV628941.D Vial: 4
Acq On : 10 Feb 2020 4:42 pm Operator: OW
Sample : BB00363-BS1 Inst : BNA#6
Misc : QBSV6021020A Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 11 8:03 2020 Quant Results File: BNA6M039.RES

Method : C:\HPCHEM\1\METHODS\METHODS\BNA6M039.M (Chemstation Integrator)
Title : GC MS BNA 6 8270D
Last Update : Mon Dec 02 15:32:06 2019
Response via : Initial Calibration



BENCHSHEETS

SDG: 20B0093

CLASS: SVOA

METHOD: EPA 8270D

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00363

Preparation Date: 02/10/2020 07:21

York Analytical Laboratories, Inc. **Printed: 2/12/2020 9:40:04AM**

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20A202 1000 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0047-01 B	Semi-Volatiles, 8270 - Comprehensive	30.7	1				
20B0065-01 B	Semi-Volatiles, 8270 - Comprehensive	30.7	1				
20B0071-04 E	Semi-Volatiles, CP-51 (formerly STARS) List	30.5	1				
20B0071-05 E	Semi-Volatiles, CP-51 (formerly STARS) List	30.8	1				
20B0071-06 E	Semi-Volatiles, CP-51 (formerly STARS) List	30.4	1				
20B0071-07 E	Semi-Volatiles, CP-51 (formerly STARS) List	30.1	1				
20B0071-08 E	Semi-Volatiles, CP-51 (formerly STARS) List	30.6	1				
20B0093-01 E	Semi-Volatiles, 8270 - Comprehensive	30.1	1				
20B0093-02 E	Semi-Volatiles, 8270 - Comprehensive	30.5	1				
20B0093-02RE1 E	Semi-Volatiles, 8270 - Comprehensive	30.5	1				Added 2/11/2020 by OW
20B0093-02RE2 E	Semi-Volatiles, 8270 - Comprehensive	30.5	1				Added 2/11/2020 by OW
20B0093-02RE3 E	Semi-Volatiles, 8270 - Comprehensive	30.5	1				Added 2/11/2020 by OW
20B0093-03 E	Semi-Volatiles, 8270 - Comprehensive	20.1	1				OILY BLACK EXTRACT
20B0093-03RE1 E	Semi-Volatiles, 8270 - Comprehensive	20.1	1				OILY BLACK EXTRACT
20B0093-05 E	Semi-Volatiles, 8270 - Comprehensive	30.7	1				
20B0093-06 E	Semi-Volatiles, CP-51 (formerly STARS) List	30.9	1				Added for BatchQC in: BB0
20B0093-06 E	Semi-Volatiles, NYSDEC Part 375 List	30.9	1				Added for BatchQC in: BB0
20B0093-06 E	Semi-Volatiles, 8270 - Comprehensive	30.9	1				
20B0093-07 E	Semi-Volatiles, 8270 - Comprehensive	30.7	1				
20B0115-01 B	Semi-Volatiles, CP-51 (formerly STARS) List	30.2	1				
20B0191-01 B	Semi-Volatiles, CP-51 (formerly STARS) List	30.4	1				
20B0193-01 B	Semi-Volatiles, CP-51 (formerly STARS) List	30.2	1				
20B0193-02 B	Semi-Volatiles, CP-51 (formerly STARS) List	30.1	1				
20B0197-01 A	Semi-Volatiles, 8270 - Comprehensive	30.2	1				
20B0237-01 A	Semi-Volatiles, NYSDEC Part 375 List	30.8	1				WET/MUD
20B0237-03 A	Semi-Volatiles, NYSDEC Part 375 List	30.5	1				MUD
BB00363-BLK1	QC	30.1	1				
BB00363-BS1	QC	30.1	1	Y20B100		500	
BB00363-MS1	QC	30.1	1	Y20B100	20B0093-06	500	
BB00363-MSD1	QC	30.1	1	Y20B100	20B0093-06	500	

Preparations Performed by **LJ** **Date:** **02/10/2020 07:21**

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00363

Preparation Date: 02/10/2020 07:21

York Analytical Laboratories, Inc.

Printed: 2/12/2020 9:40:04AM

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20A202 1000 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y20A141	ACETONE	0000240527	Y20A264	Sodium Sulfate, Anhydrous	0000240206
Y20A426	Methylene Chloride HW	DX815-US	Y20B073	Ottawa Sand Mix	020520

Preparations Performed by **LJ** **Date:** **02/10/2020 07:21**

York Analytical Laboratories, Inc.
SDG: 20B0093
CLASS: PEST
METHOD: EPA 8081B

DATA PACKAGE COVER PAGE

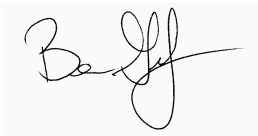
EPA 8081B

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093

Client: Roux Associates
Project: 3475.00014000 Lafayette

Client Sample Id:	Lab Sample Id:
SB-1 (0-2)	20B0093-01
SB-1 (11-13)	20B0093-02
SB-3 (0-2)	20B0093-03
SB-3 (13-15)	20B0093-05
SB-4 (0-2)	20B0093-06
SB-4 (13-15)	20B0093-07

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: 2/24/2020

Title: Laboratory Director

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

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1124 Instrument: GC Dual E

Calibration: YB00024

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1124-CCV1)			Lab File ID: P5062532.D		Analyzed: 02/10/20 07:39			
Decachlorobiphenyl	160	104	80 - 120	12.29	12.29167	-0.0017	+/-1.00	
Decachlorobiphenyl [2C]	160	95.1	80 - 120	10.62	10.62167	-0.0017	+/-1.00	
Tetrachloro-m-xylene	160	110	80 - 120	3.2	3.2	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	160	105	80 - 120	2.92	2.926667	-0.0067	+/-1.00	
Calibration Check (Y0B1124-CCV2)			Lab File ID: P5062533.D		Analyzed: 02/10/20 07:57			
Decachlorobiphenyl	200		80 - 120		12.29167	-12.2917	+/-1.00	*
Decachlorobiphenyl [2C]	200		80 - 120		10.62167	-10.6217	+/-1.00	*
Tetrachloro-m-xylene	200		80 - 120		3.2	-3.2000	+/-1.00	*
Tetrachloro-m-xylene [2C]	200		80 - 120		2.926667	-2.9267	+/-1.00	*
Calibration Check (Y0B1124-CCV3)			Lab File ID: P5062534.D		Analyzed: 02/10/20 08:14			
Decachlorobiphenyl	200		80 - 120		12.29167	-12.2917	+/-1.00	*
Decachlorobiphenyl [2C]	200		80 - 120		10.62167	-10.6217	+/-1.00	*
Tetrachloro-m-xylene	200		80 - 120		3.2	-3.2000	+/-1.00	*
Tetrachloro-m-xylene [2C]	200		80 - 120		2.926667	-2.9267	+/-1.00	*
Blank (BB00283-BLK1)			Lab File ID: P5062535.D		Analyzed: 02/10/20 08:32			
Decachlorobiphenyl	66.4	127	30 - 150	12.29	12.29167	-0.0017	+/-1.00	
Decachlorobiphenyl [2C]	66.4	118	30 - 150	10.62	10.62167	-0.0017	+/-1.00	
Tetrachloro-m-xylene	66.4	108	30 - 150	3.2	3.2	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	66.4	103	30 - 150	2.93	2.926667	0.0033	+/-1.00	
LCS (BB00283-BS1)			Lab File ID: P5062536.D		Analyzed: 02/10/20 08:50			
Decachlorobiphenyl	66.4	106	30 - 150	12.29	12.29167	-0.0017	+/-1.00	
Decachlorobiphenyl [2C]	66.4	98.1	30 - 150	10.62	10.62167	-0.0017	+/-1.00	
Tetrachloro-m-xylene	66.4	97.0	30 - 150	3.2	3.2	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	66.4	92.4	30 - 150	2.93	2.926667	0.0033	+/-1.00	
Calibration Check (Y0B1124-CCV4)			Lab File ID: P5062559.D		Analyzed: 02/10/20 16:55			
Decachlorobiphenyl	160	94.7	80 - 120	12.29	12.29167	-0.0017	+/-1.00	
Decachlorobiphenyl [2C]	160	105	80 - 120	10.62	10.62167	-0.0017	+/-1.00	
Tetrachloro-m-xylene	160	124	80 - 120	3.2	3.2	0.0000	+/-1.00	*
Tetrachloro-m-xylene [2C]	160	109	80 - 120	2.92	2.926667	-0.0067	+/-1.00	

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

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1201 Instrument: GCECD6

Calibration: YA00016

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1201-CCV2)			Lab File ID: P60000431.D		Analyzed: 02/11/20 09:30			
Decachlorobiphenyl	200		80 - 120		9.349	-9.3490	+/-1.00	*
Decachlorobiphenyl [2C]	200		80 - 120		11.10867	-11.1087	+/-1.00	*
Tetrachloro-m-xylene	200		80 - 120		2.355	-2.3550	+/-1.00	*
Tetrachloro-m-xylene [2C]	200		80 - 120		2.589	-2.5890	+/-1.00	*
Calibration Check (Y0B1201-CCV1)			Lab File ID: P60000432.D		Analyzed: 02/11/20 09:47			
Decachlorobiphenyl	160	88.1	80 - 120	9.353	9.349	0.0040	+/-1.00	
Decachlorobiphenyl [2C]	160	96.1	80 - 120	11.109	11.10867	0.0003	+/-1.00	
Tetrachloro-m-xylene	160	87.6	80 - 120	2.356	2.355	0.0010	+/-1.00	
Tetrachloro-m-xylene [2C]	160	94.5	80 - 120	2.588	2.589	-0.0010	+/-1.00	
Calibration Check (Y0B1201-CCV3)			Lab File ID: P60000433.D		Analyzed: 02/11/20 10:04			
Decachlorobiphenyl	200		80 - 120		9.349	-9.3490	+/-1.00	*
Decachlorobiphenyl [2C]	200		80 - 120		11.10867	-11.1087	+/-1.00	*
Tetrachloro-m-xylene	200		80 - 120		2.355	-2.3550	+/-1.00	*
Tetrachloro-m-xylene [2C]	200		80 - 120		2.589	-2.5890	+/-1.00	*
SB-1 (0-2) (20B0093-01)			Lab File ID: P60000443.D		Analyzed: 02/11/20 12:52			
Decachlorobiphenyl	81.2	55.1	30 - 150	9.353	9.349	0.0040	+/-1.00	
Decachlorobiphenyl [2C]	81.2	64.6	30 - 150	11.107	11.10867	-0.0017	+/-1.00	
Tetrachloro-m-xylene	81.2	41.5	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	81.2	47.1	30 - 150	2.588	2.589	-0.0010	+/-1.00	
SB-1 (11-13) (20B0093-02)			Lab File ID: P60000444.D		Analyzed: 02/11/20 13:09			
Decachlorobiphenyl	86.3	58.2	30 - 150	9.352	9.349	0.0030	+/-1.00	
Decachlorobiphenyl [2C]	86.3	62.7	30 - 150	11.109	11.10867	0.0003	+/-1.00	
Tetrachloro-m-xylene	86.3	36.4	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	86.3	47.3	30 - 150	2.588	2.589	-0.0010	+/-1.00	
SB-3 (0-2) (20B0093-03)			Lab File ID: P60000445.D		Analyzed: 02/11/20 13:26			
Decachlorobiphenyl	74.7	53.5	30 - 150	9.353	9.349	0.0040	+/-1.00	
Decachlorobiphenyl [2C]	74.7	60.0	30 - 150	11.109	11.10867	0.0003	+/-1.00	
Tetrachloro-m-xylene	74.7	39.7	30 - 150	2.356	2.355	0.0010	+/-1.00	
Tetrachloro-m-xylene [2C]	74.7	45.1	30 - 150	2.588	2.589	-0.0010	+/-1.00	
SB-3 (13-15) (20B0093-05)			Lab File ID: P60000446.D		Analyzed: 02/11/20 13:43			
Decachlorobiphenyl	81.7	56.6	30 - 150	9.353	9.349	0.0040	+/-1.00	
Decachlorobiphenyl [2C]	81.7	62.3	30 - 150	11.11	11.10867	0.0013	+/-1.00	
Tetrachloro-m-xylene	81.7	39.1	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	81.7	47.0	30 - 150	2.588	2.589	-0.0010	+/-1.00	

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

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1201 Instrument: GCECD6

Calibration: YA00016

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SB-4 (0-2) (20B0093-06)			Lab File ID: P60000447.D		Analyzed: 02/11/20 13:59			
Decachlorobiphenyl	74.7	64.9	30 - 150	9.354	9.349	0.0050	+/-1.00	
Decachlorobiphenyl [2C]	74.7	71.3	30 - 150	11.109	11.10867	0.0003	+/-1.00	
Tetrachloro-m-xylene	74.7	43.8	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	74.7	50.2	30 - 150	2.588	2.589	-0.0010	+/-1.00	
SB-4 (13-15) (20B0093-07)			Lab File ID: P60000448.D		Analyzed: 02/11/20 14:16			
Decachlorobiphenyl	89.1	47.4	30 - 150	9.354	9.349	0.0050	+/-1.00	
Decachlorobiphenyl [2C]	89.1	51.9	30 - 150	11.109	11.10867	0.0003	+/-1.00	
Tetrachloro-m-xylene	89.1	52.4	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	89.1	64.7	30 - 150	2.588	2.589	-0.0010	+/-1.00	
Blank (BB00362-BLK1)			Lab File ID: P60000451.D		Analyzed: 02/11/20 15:07			
Decachlorobiphenyl	66.4	81.1	30 - 150	9.353	9.349	0.0040	+/-1.00	
Decachlorobiphenyl [2C]	66.4	91.2	30 - 150	11.11	11.10867	0.0013	+/-1.00	
Tetrachloro-m-xylene	66.4	81.4	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	66.4	98.0	30 - 150	2.588	2.589	-0.0010	+/-1.00	
LCS (BB00362-BS1)			Lab File ID: P60000452.D		Analyzed: 02/11/20 15:23			
Decachlorobiphenyl	66.4	74.6	30 - 150	9.353	9.349	0.0040	+/-1.00	
Decachlorobiphenyl [2C]	66.4	83.8	30 - 150	11.108	11.10867	-0.0007	+/-1.00	
Tetrachloro-m-xylene	66.4	74.9	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	66.4	88.8	30 - 150	2.588	2.589	-0.0010	+/-1.00	
Calibration Check (Y0B1201-CCV4)			Lab File ID: P60000455.D		Analyzed: 02/11/20 16:17			
Decachlorobiphenyl	160	96.0	80 - 120	9.364	9.349	0.0150	+/-1.00	
Decachlorobiphenyl [2C]	160	105	80 - 120	11.113	11.10867	0.0043	+/-1.00	
Tetrachloro-m-xylene	160	94.8	80 - 120	2.359	2.355	0.0040	+/-1.00	
Tetrachloro-m-xylene [2C]	160	106	80 - 120	2.589	2.589	0.0000	+/-1.00	
Matrix Spike (BB00362-MS1)			Lab File ID: P60000463.D		Analyzed: 02/11/20 18:31			
Decachlorobiphenyl	74.7	77.9	30 - 150	9.355	9.349	0.0060	+/-1.00	
Decachlorobiphenyl [2C]	74.7	87.3	30 - 150	11.111	11.10867	0.0023	+/-1.00	
Tetrachloro-m-xylene	74.7	52.9	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	74.7	61.3	30 - 150	2.588	2.589	-0.0010	+/-1.00	
Matrix Spike Dup (BB00362-MSD1)			Lab File ID: P60000464.D		Analyzed: 02/11/20 18:48			
Decachlorobiphenyl	74.7	59.8	30 - 150	9.355	9.349	0.0060	+/-1.00	
Decachlorobiphenyl [2C]	74.7	68.4	30 - 150	11.11	11.10867	0.0013	+/-1.00	
Tetrachloro-m-xylene	74.7	37.9	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	74.7	44.5	30 - 150	2.588	2.589	-0.0010	+/-1.00	

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

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0B1201	Instrument:	GCECD6
		Calibration:	YA00016

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1201-CCV5)			Lab File ID: P60000477.D		Analyzed: 02/12/20 07:11			
Decachlorobiphenyl	160	100	80 - 120	9.356	9.349	0.0070	+/-1.00	
Decachlorobiphenyl [2C]	160	105	80 - 120	11.11	11.10867	0.0013	+/-1.00	
Tetrachloro-m-xylene	160	99.4	80 - 120	2.356	2.355	0.0010	+/-1.00	
Tetrachloro-m-xylene [2C]	160	106	80 - 120	2.588	2.589	-0.0010	+/-1.00	

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

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1401 Instrument: GCECD6

Calibration: YA00016

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1401-CCV2)				Lab File ID: P60000525.D		Analyzed: 02/13/20 07:03		
Decachlorobiphenyl	200		80 - 120		9.349	-9.3490	+/-1.00	*
Decachlorobiphenyl [2C]	200		80 - 120		11.10867	-11.1087	+/-1.00	*
Tetrachloro-m-xylene	200		80 - 120		2.355	-2.3550	+/-1.00	*
Tetrachloro-m-xylene [2C]	200		80 - 120		2.589	-2.5890	+/-1.00	*
Calibration Check (Y0B1401-CCV3)				Lab File ID: P60000526.D		Analyzed: 02/13/20 07:20		
Decachlorobiphenyl	200		80 - 120		9.349	-9.3490	+/-1.00	*
Decachlorobiphenyl [2C]	200		80 - 120		11.10867	-11.1087	+/-1.00	*
Tetrachloro-m-xylene	200		80 - 120		2.355	-2.3550	+/-1.00	*
Tetrachloro-m-xylene [2C]	200		80 - 120		2.589	-2.5890	+/-1.00	*
Calibration Check (Y0B1401-CCV1)				Lab File ID: P60000527.D		Analyzed: 02/13/20 07:36		
Decachlorobiphenyl	160	110	80 - 120	9.355	9.349	0.0060	+/-1.00	
Decachlorobiphenyl [2C]	160	121	80 - 120	11.111	11.10867	0.0023	+/-1.00	*
Tetrachloro-m-xylene	160	106	80 - 120	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	160	113	80 - 120	2.588	2.589	-0.0010	+/-1.00	
Calibration Check (Y0B1401-CCV4)				Lab File ID: P60000543.D		Analyzed: 02/13/20 12:19		
Decachlorobiphenyl	160	117	80 - 120	9.366	9.349	0.0170	+/-1.00	
Decachlorobiphenyl [2C]	160	117	80 - 120	11.114	11.10867	0.0053	+/-1.00	
Tetrachloro-m-xylene	160	117	80 - 120	2.36	2.355	0.0050	+/-1.00	
Tetrachloro-m-xylene [2C]	160	119	80 - 120	2.588	2.589	-0.0010	+/-1.00	
Matrix Spike (BB00283-MS1)				Lab File ID: P60000563.D		Analyzed: 02/13/20 18:06		
Decachlorobiphenyl	82.0	74.4	30 - 150	9.357	9.349	0.0080	+/-1.00	
Decachlorobiphenyl [2C]	82.0	83.1	30 - 150	11.111	11.10867	0.0023	+/-1.00	
Tetrachloro-m-xylene	82.0	47.0	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	82.0	51.0	30 - 150	2.588	2.589	-0.0010	+/-1.00	
Matrix Spike Dup (BB00283-MSD1)				Lab File ID: P60000564.D		Analyzed: 02/13/20 18:23		
Decachlorobiphenyl	82.0	67.1	30 - 150	9.356	9.349	0.0070	+/-1.00	
Decachlorobiphenyl [2C]	82.0	75.2	30 - 150	11.111	11.10867	0.0023	+/-1.00	
Tetrachloro-m-xylene	82.0	43.0	30 - 150	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	82.0	48.8	30 - 150	2.587	2.589	-0.0020	+/-1.00	
Calibration Check (Y0B1401-CCV5)				Lab File ID: P60000565.D		Analyzed: 02/13/20 18:40		
Decachlorobiphenyl	160	98.2	80 - 120	9.356	9.349	0.0070	+/-1.00	
Decachlorobiphenyl [2C]	160	105	80 - 120	11.111	11.10867	0.0023	+/-1.00	
Tetrachloro-m-xylene	160	103	80 - 120	2.355	2.355	0.0000	+/-1.00	
Tetrachloro-m-xylene [2C]	160	110	80 - 120	2.588	2.589	-0.0010	+/-1.00	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00283
Laboratory ID: BB00283-MS1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 10 mL
Source Sample Name: SB-1 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
4,4'-DDD	41.0	ND	31.9	77.7	30 - 150
4,4'-DDD [2C]	41.0	ND	31.1	75.9	30 - 150
4,4'-DDE	41.0	46.1	66.2	49.0	30 - 150
4,4'-DDE [2C]	41.0	37.6	71.1	81.7	30 - 150
4,4'-DDT	41.0	33.2	68.2	85.3	30 - 150
4,4'-DDT [2C]	41.0	36.3	74.6	93.4	30 - 150
Aldrin	41.0	ND	30.0	73.3	30 - 150
Aldrin [2C]	41.0	ND	32.2	78.6	30 - 150
alpha-BHC	41.0	ND	29.3	71.5	30 - 150
alpha-BHC [2C]	41.0	ND	32.5	79.3	30 - 150
alpha-Chlordane	41.0	8.62	34.7	63.7	30 - 150
alpha-Chlordane [2C]	41.0	5.69	36.9	76.0	30 - 150
beta-BHC	41.0	ND	34.1	83.0	30 - 150
beta-BHC [2C]	41.0	ND	32.3	78.7	30 - 150
delta-BHC	41.0	ND	34.8	84.9	30 - 150
delta-BHC [2C]	41.0	ND	31.4	76.5	30 - 150
Dieldrin	41.0	ND	33.8	82.4	30 - 150
Dieldrin [2C]	41.0	ND	32.3	78.8	30 - 150
Endosulfan I	41.0	ND	40.4	98.5	30 - 150
Endosulfan I [2C]	41.0	ND	32.8	79.9	30 - 150
Endosulfan II	41.0	ND	28.5	69.5	30 - 150
Endosulfan II [2C]	41.0	ND	27.8	67.7	30 - 150
Endosulfan sulfate	41.0	ND	27.5	67.0	30 - 150
Endosulfan sulfate [2C]	41.0	ND	32.5	79.2	30 - 150
Endrin	41.0	ND	33.6	81.9	30 - 150
Endrin [2C]	41.0	ND	37.1	90.6	30 - 150
Endrin aldehyde	41.0	ND	21.4	52.2	30 - 150
Endrin aldehyde [2C]	41.0	ND	25.7	62.6	30 - 150
Endrin ketone	41.0	ND	34.7	84.5	30 - 150
Endrin ketone [2C]	41.0	ND	33.2	81.0	30 - 150
gamma-BHC (Lindane)	41.0	ND	31.2	76.1	30 - 150
gamma-BHC (Lindane) [2C]	41.0	ND	33.7	82.3	30 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00283
Laboratory ID: BB00283-MS1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 10 mL

Source Sample Name: SB-1 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
gamma-Chlordane	41.0	6.40	31.9	62.3	30 - 150
gamma-Chlordane [2C]	41.0	7.55	39.6	78.2	30 - 150
Heptachlor	41.0	ND	31.2	76.1	30 - 150
Heptachlor [2C]	41.0	ND	36.4	88.7	30 - 150
Heptachlor epoxide	41.0	ND	30.3	73.8	30 - 150
Heptachlor epoxide [2C]	41.0	ND	33.6	82.0	30 - 150
Methoxychlor	41.0	ND	30.3	73.9	30 - 150
Methoxychlor [2C]	41.0	ND	41.4	101	30 - 150

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

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00283
Laboratory ID: BB00283-MSD1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 10 mL
Source Sample Name: SB-1 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4,4'-DDD	41.0	33.2	80.8	3.91	30	30 - 150
4,4'-DDD [2C]	41.0	30.8	75.2	0.927	30	30 - 150
4,4'-DDE	41.0	65.4	47.2	1.15	30	30 - 150
4,4'-DDE [2C]	41.0	79.7	103	11.4	30	30 - 150
4,4'-DDT	41.0	69.4	88.3	1.79	30	30 - 150
4,4'-DDT [2C]	41.0	78.8	104	5.47	30	30 - 150
Aldrin	41.0	27.6	67.2	8.58	30	30 - 150
Aldrin [2C]	41.0	30.4	74.2	5.79	30	30 - 150
alpha-BHC	41.0	25.5	62.1	14.1	30	30 - 150
alpha-BHC [2C]	41.0	29.6	72.2	9.34	30	30 - 150
alpha-Chlordane	41.0	38.6	73.0	10.4	30	30 - 150
alpha-Chlordane [2C]	41.0	38.6	80.2	4.56	30	30 - 150
beta-BHC	41.0	29.6	72.2	14.0	30	30 - 150
beta-BHC [2C]	41.0	27.9	68.0	14.7	30	30 - 150
delta-BHC	41.0	27.4	66.9	23.8	30	30 - 150
delta-BHC [2C]	41.0	27.0	65.9	14.9	30	30 - 150
Dieldrin	41.0	31.6	77.1	6.64	30	30 - 150
Dieldrin [2C]	41.0	30.0	73.2	7.42	30	30 - 150
Endosulfan I	41.0	37.1	90.5	8.51	30	30 - 150
Endosulfan I [2C]	41.0	29.9	72.8	9.28	30	30 - 150
Endosulfan II	41.0	26.3	64.2	7.91	30	30 - 150
Endosulfan II [2C]	41.0	24.0	58.6	14.5	30	30 - 150
Endosulfan sulfate	41.0	22.6	55.0	19.6	30	30 - 150
Endosulfan sulfate [2C]	41.0	30.0	73.2	7.93	30	30 - 150
Endrin	41.0	29.7	72.4	12.3	30	30 - 150
Endrin [2C]	41.0	33.0	80.4	11.9	30	30 - 150
Endrin aldehyde	41.0	17.5	42.7	20.1	30	30 - 150
Endrin aldehyde [2C]	41.0	24.7	60.2	4.06	30	30 - 150
Endrin ketone	41.0	33.5	81.7	3.43	30	30 - 150
Endrin ketone [2C]	41.0	28.4	69.3	15.6	30	30 - 150
gamma-BHC (Lindane)	41.0	28.1	68.6	10.3	30	30 - 150
gamma-BHC (Lindane) [2C]	41.0	30.2	73.7	11.0	30	30 - 150
gamma-Chlordane	41.0	36.5	73.4	13.3	30	30 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00283
Laboratory ID: BB00283-MSD1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 10 mL

Source Sample Name: SB-1 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-Chlordane [2C]	41.0	44.3	89.7	11.2	30	30 - 150
Heptachlor	41.0	27.1	66.1	14.2	30	30 - 150
Heptachlor [2C]	41.0	33.5	81.8	8.05	30	30 - 150
Heptachlor epoxide	41.0	28.8	70.3	4.89	30	30 - 150
Heptachlor epoxide [2C]	41.0	31.6	77.2	6.08	30	30 - 150
Methoxychlor	41.0	26.7	65.0	12.8	30	30 - 150
Methoxychlor [2C]	41.0	36.3	88.5	13.2	30	30 - 150

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

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00362
Laboratory ID: BB00362-MS1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 10 mL
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
4,4'-DDD	37.4	ND	25.7	68.7	30 - 150
4,4'-DDD [2C]	37.4	ND	27.7	74.2	30 - 150
4,4'-DDE	37.4	ND	27.9	74.8	30 - 150
4,4'-DDE [2C]	37.4	ND	30.2	80.7	30 - 150
4,4'-DDT	37.4	ND	32.5	86.9	30 - 150
4,4'-DDT [2C]	37.4	ND	33.0	88.2	30 - 150
Aldrin	37.4	ND	28.8	77.1	30 - 150
Aldrin [2C]	37.4	ND	31.2	83.4	30 - 150
alpha-BHC	37.4	ND	27.1	72.6	30 - 150
alpha-BHC [2C]	37.4	ND	30.6	81.9	30 - 150
alpha-Chlordane	37.4	ND	28.0	74.9	30 - 150
alpha-Chlordane [2C]	37.4	ND	30.7	82.1	30 - 150
beta-BHC	37.4	ND	29.6	79.2	30 - 150
beta-BHC [2C]	37.4	ND	29.9	79.9	30 - 150
delta-BHC	37.4	ND	28.3	75.8	30 - 150
delta-BHC [2C]	37.4	ND	29.4	78.6	30 - 150
Dieldrin	37.4	ND	29.8	79.7	30 - 150
Dieldrin [2C]	37.4	ND	30.3	81.0	30 - 150
Endosulfan I	37.4	ND	29.4	78.6	30 - 150
Endosulfan I [2C]	37.4	ND	30.8	82.3	30 - 150
Endosulfan II	37.4	ND	25.4	67.9	30 - 150
Endosulfan II [2C]	37.4	ND	27.3	73.0	30 - 150
Endosulfan sulfate	37.4	ND	25.8	68.9	30 - 150
Endosulfan sulfate [2C]	37.4	ND	27.9	74.8	30 - 150
Endrin	37.4	ND	30.4	81.4	30 - 150
Endrin [2C]	37.4	ND	34.7	92.8	30 - 150
Endrin aldehyde	37.4	ND	20.1	53.8	30 - 150
Endrin aldehyde [2C]	37.4	ND	23.1	61.8	30 - 150
Endrin ketone	37.4	ND	29.9	80.1	30 - 150
Endrin ketone [2C]	37.4	ND	32.4	86.7	30 - 150
gamma-BHC (Lindane)	37.4	ND	29.2	78.2	30 - 150
gamma-BHC (Lindane) [2C]	37.4	ND	31.7	84.7	30 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00362	Laboratory ID:	BB00362-MS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. #	QC LIMITS REC.
gamma-Chlordane	37.4	ND	26.4	70.6	30 - 150
gamma-Chlordane [2C]	37.4	ND	31.4	84.1	30 - 150
Heptachlor	37.4	ND	26.7	71.4	30 - 150
Heptachlor [2C]	37.4	ND	32.3	86.5	30 - 150
Heptachlor epoxide	37.4	ND	26.6	71.1	30 - 150
Heptachlor epoxide [2C]	37.4	ND	31.0	82.9	30 - 150
Methoxychlor	37.4	ND	28.4	76.1	30 - 150
Methoxychlor [2C]	37.4	ND	34.7	92.9	30 - 150

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

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00362
Laboratory ID: BB00362-MSD1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 10 mL
Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4,4'-DDD	37.4	19.2	51.5	28.6	30	30 - 150
4,4'-DDD [2C]	37.4	20.8	55.8	28.3	30	30 - 150
4,4'-DDE	37.4	21.2	56.7	27.5	30	30 - 150
4,4'-DDE [2C]	37.4	23.2	62.1	26.1	30	30 - 150
4,4'-DDT	37.4	26.1	69.9	21.7	30	30 - 150
4,4'-DDT [2C]	37.4	25.2	67.4	26.7	30	30 - 150
Aldrin	37.4	22.3	59.7	25.3	30	30 - 150
Aldrin [2C]	37.4	24.5	65.5	24.0	30	30 - 150
alpha-BHC	37.4	21.7	58.1	22.2	30	30 - 150
alpha-BHC [2C]	37.4	25.0	67.0	20.0	30	30 - 150
alpha-Chlordane	37.4	21.7	58.2	25.1	30	30 - 150
alpha-Chlordane [2C]	37.4	24.1	64.5	24.0	30	30 - 150
beta-BHC	37.4	25.6	68.6	14.4	30	30 - 150
beta-BHC [2C]	37.4	24.2	64.7	21.0	30	30 - 150
delta-BHC	37.4	22.2	59.3	24.5	30	30 - 150
delta-BHC [2C]	37.4	23.8	63.6	21.2	30	30 - 150
Dieldrin	37.4	22.9	61.2	26.2	30	30 - 150
Dieldrin [2C]	37.4	24.2	64.7	22.4	30	30 - 150
Endosulfan I	37.4	21.8	58.4	29.6	30	30 - 150
Endosulfan I [2C]	37.4	24.1	64.5	24.2	30	30 - 150
Endosulfan II	37.4	19.7	52.6	25.4	30	30 - 150
Endosulfan II [2C]	37.4	21.2	56.8	24.9	30	30 - 150
Endosulfan sulfate	37.4	20.2	54.1	24.1	30	30 - 150
Endosulfan sulfate [2C]	37.4	21.9	58.7	24.0	30	30 - 150
Endrin	37.4	29.4	78.7	3.37	30	30 - 150
Endrin [2C]	37.4	26.9	71.9	25.4	30	30 - 150
Endrin aldehyde	37.4	16.2	43.4	21.4	30	30 - 150
Endrin aldehyde [2C]	37.4	18.7	50.1	21.0	30	30 - 150
Endrin ketone	37.4	23.1	61.7	25.8	30	30 - 150
Endrin ketone [2C]	37.4	25.2	67.6	24.8	30	30 - 150
gamma-BHC (Lindane)	37.4	23.8	63.7	20.4	30	30 - 150
gamma-BHC (Lindane) [2C]	37.4	25.7	68.8	20.7	30	30 - 150
gamma-Chlordane	37.4	20.4	54.7	25.5	30	30 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00362
Laboratory ID: BB00362-MSD1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 10 mL

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-Chlordane [2C]	37.4	24.7	66.0	24.1	30	30 - 150
Heptachlor	37.4	21.1	56.5	23.4	30	30 - 150
Heptachlor [2C]	37.4	25.9	69.2	22.2	30	30 - 150
Heptachlor epoxide	37.4	20.7	55.4	24.8	30	30 - 150
Heptachlor epoxide [2C]	37.4	24.7	66.0	22.6	30	30 - 150
Methoxychlor	37.4	21.8	58.2	26.5	30	30 - 150
Methoxychlor [2C]	37.4	26.4	70.7	27.1	30	30 - 150

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 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00283	Laboratory ID:	BB00283-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
4,4'-DDD	33.2	30.8	92.7	40 - 140
4,4'-DDD [2C]	33.2	32.2	97.0	40 - 140
4,4'-DDE	33.2	33.0	99.4	40 - 140
4,4'-DDE [2C]	33.2	28.6	86.1	40 - 140
4,4'-DDT	33.2	32.8	98.6	40 - 140
4,4'-DDT [2C]	33.2	34.0	102	40 - 140
Aldrin	33.2	31.5	94.9	40 - 140
Aldrin [2C]	33.2	31.4	94.7	40 - 140
alpha-BHC	33.2	31.4	94.4	40 - 140
alpha-BHC [2C]	33.2	31.6	95.1	40 - 140
alpha-Chlordane	33.2	32.4	97.4	40 - 140
alpha-Chlordane [2C]	33.2	35.4	106	40 - 140
beta-BHC	33.2	33.8	102	40 - 140
beta-BHC [2C]	33.2	31.4	94.6	40 - 140
delta-BHC	33.2	31.3	94.3	40 - 140
delta-BHC [2C]	33.2	32.1	96.7	40 - 140
Dieldrin	33.2	31.8	95.8	40 - 140
Dieldrin [2C]	33.2	32.0	96.3	40 - 140
Endosulfan I	33.2	33.1	99.6	40 - 140
Endosulfan I [2C]	33.2	32.0	96.2	40 - 140
Endosulfan II	33.2	31.2	93.8	40 - 140
Endosulfan II [2C]	33.2	32.1	96.5	40 - 140
Endosulfan sulfate	33.2	30.0	90.4	40 - 140
Endosulfan sulfate [2C]	33.2	28.6	86.0	40 - 140
Endrin	33.2	33.4	101	40 - 140
Endrin [2C]	33.2	32.7	98.6	40 - 140
Endrin aldehyde	33.2	28.9	86.9	40 - 140
Endrin aldehyde [2C]	33.2	28.2	84.9	40 - 140
Endrin ketone	33.2	32.2	96.9	40 - 140
Endrin ketone [2C]	33.2	31.3	94.1	40 - 140

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00283	Laboratory ID:	BB00283-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
gamma-BHC (Lindane)	33.2	30.7	92.4	40 - 140
gamma-BHC (Lindane) [2C]	33.2	32.5	98.0	40 - 140
gamma-Chlordane	33.2	31.2	93.9	40 - 140
gamma-Chlordane [2C]	33.2	29.7	89.4	40 - 140
Heptachlor	33.2	34.6	104	40 - 140
Heptachlor [2C]	33.2	30.3	91.3	40 - 140
Heptachlor epoxide	33.2	32.9	99.0	40 - 140
Heptachlor epoxide [2C]	33.2	31.0	93.3	40 - 140
Methoxychlor	33.2	32.8	98.8	40 - 140
Methoxychlor [2C]	33.2	37.5	113	40 - 140

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 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00362	Laboratory ID:	BB00362-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
4,4'-DDD	33.2	21.7	65.3	40 - 140
4,4'-DDD [2C]	33.2	24.5	73.9	40 - 140
4,4'-DDE	33.2	25.6	77.1	40 - 140
4,4'-DDE [2C]	33.2	25.9	78.1	40 - 140
4,4'-DDT	33.2	22.1	66.4	40 - 140
4,4'-DDT [2C]	33.2	22.2	66.7	40 - 140
Aldrin	33.2	26.9	80.9	40 - 140
Aldrin [2C]	33.2	30.7	92.3	40 - 140
alpha-BHC	33.2	25.4	76.6	40 - 140
alpha-BHC [2C]	33.2	29.7	89.3	40 - 140
alpha-Chlordane	33.2	24.8	74.6	40 - 140
alpha-Chlordane [2C]	33.2	27.8	83.7	40 - 140
beta-BHC	33.2	24.1	72.6	40 - 140
beta-BHC [2C]	33.2	28.3	85.3	40 - 140
delta-BHC	33.2	22.5	67.6	40 - 140
delta-BHC [2C]	33.2	25.9	78.0	40 - 140
Dieldrin	33.2	27.0	81.2	40 - 140
Dieldrin [2C]	33.2	28.0	84.3	40 - 140
Endosulfan I	33.2	23.0	69.1	40 - 140
Endosulfan I [2C]	33.2	28.8	86.7	40 - 140
Endosulfan II	33.2	21.9	66.0	40 - 140
Endosulfan II [2C]	33.2	26.0	78.3	40 - 140
Endosulfan sulfate	33.2	21.6	65.0	40 - 140
Endosulfan sulfate [2C]	33.2	23.5	70.8	40 - 140
Endrin	33.2	25.2	75.7	40 - 140
Endrin [2C]	33.2	29.8	89.8	40 - 140
Endrin aldehyde	33.2	19.7	59.4	40 - 140
Endrin aldehyde [2C]	33.2	22.0	66.1	40 - 140
Endrin ketone	33.2	26.0	78.3	40 - 140
Endrin ketone [2C]	33.2	28.6	86.2	40 - 140

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00362	Laboratory ID:	BB00362-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
gamma-BHC (Lindane)	33.2	26.7	80.3	40 - 140
gamma-BHC (Lindane) [2C]	33.2	29.5	88.9	40 - 140
gamma-Chlordane	33.2	22.7	68.3	40 - 140
gamma-Chlordane [2C]	33.2	28.1	84.5	40 - 140
Heptachlor	33.2	24.7	74.5	40 - 140
Heptachlor [2C]	33.2	29.3	88.3	40 - 140
Heptachlor epoxide	33.2	24.6	74.0	40 - 140
Heptachlor epoxide [2C]	33.2	28.9	87.1	40 - 140
Methoxychlor	33.2	25.1	75.6	40 - 140
Methoxychlor [2C]	33.2	26.0	78.2	40 - 140

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

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00283 Batch Matrix: Soil Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (0-2)	20B0093-01	P60000443.D	02/07/20 07:48	
Blank	BB00283-BLK1	P5062535.D	02/07/20 07:48	
LCS	BB00283-BS1	P5062536.D	02/07/20 07:48	
SB-1 (0-2)	BB00283-MS1	P60000563.D	02/07/20 07:48	
SB-1 (0-2)	BB00283-MSD1	P60000564.D	02/07/20 07:48	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00362 Batch Matrix: Soil Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (11-13)	20B0093-02	P60000444.D	02/10/20 07:17	
SB-3 (0-2)	20B0093-03	P60000445.D	02/10/20 07:17	
SB-3 (13-15)	20B0093-05	P60000446.D	02/10/20 07:17	
SB-4 (0-2)	20B0093-06	P60000447.D	02/10/20 07:17	
SB-4 (13-15)	20B0093-07	P60000448.D	02/10/20 07:17	
Blank	BB00362-BLK1	P60000451.D	02/10/20 07:17	
LCS	BB00362-BS1	P60000452.D	02/10/20 07:17	
SB-4 (0-2)	BB00362-MS1	P60000463.D	02/10/20 07:17	
SB-4 (0-2)	BB00362-MSD1	P60000464.D	02/10/20 07:17	

FORM I

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00283-BLK1	File ID:	P5062535.D
Prepared:	02/07/20 07:48	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/10/20 08:32	Instrument:	GC Dual E		
Batch:	BB00283	Sequence:	Y0B1124	Calibration:	YB00024

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
72-54-8	4,4'-DDD	1.64	U
72-54-8	4,4'-DDD [2C]	1.64	U
72-55-9	4,4'-DDE	1.64	U
72-55-9	4,4'-DDE [2C]	1.64	U
50-29-3	4,4'-DDT	1.64	U
50-29-3	4,4'-DDT [2C]	1.64	U
309-00-2	Aldrin	1.64	U
309-00-2	Aldrin [2C]	1.64	U
319-84-6	alpha-BHC	1.64	U
319-84-6	alpha-BHC [2C]	1.64	U
5103-71-9	alpha-Chlordane	1.64	U
5103-71-9	alpha-Chlordane [2C]	1.64	U
319-85-7	beta-BHC	1.64	U
319-85-7	beta-BHC [2C]	1.64	U
57-74-9	Chlordane, total	32.9	U
57-74-9	Chlordane, total [2C]	32.9	U
319-86-8	delta-BHC	1.64	U
319-86-8	delta-BHC [2C]	1.64	U
60-57-1	Dieldrin	1.64	U
60-57-1	Dieldrin [2C]	1.64	U
959-98-8	Endosulfan I	1.64	U
959-98-8	Endosulfan I [2C]	1.64	U
33213-65-9	Endosulfan II	1.64	U
33213-65-9	Endosulfan II [2C]	1.64	U
1031-07-8	Endosulfan sulfate	1.64	U
1031-07-8	Endosulfan sulfate [2C]	1.64	U
72-20-8	Endrin	1.64	U
72-20-8	Endrin [2C]	1.64	U
7421-93-4	Endrin aldehyde	1.64	U
7421-93-4	Endrin aldehyde [2C]	1.64	U

FORM I

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00283-BLK1	File ID:	P5062535.D
Prepared:	02/07/20 07:48	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/10/20 08:32	Instrument:	GC Dual E		
Batch:	BB00283	Sequence:	Y0B1124	Calibration:	YB00024

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
53494-70-5	Endrin ketone	1.64	U
53494-70-5	Endrin ketone [2C]	1.64	U
58-89-9	gamma-BHC (Lindane)	1.64	U
58-89-9	gamma-BHC (Lindane) [2C]	1.64	U
5566-34-7	gamma-Chlordane	1.64	U
5566-34-7	gamma-Chlordane [2C]	1.64	U
76-44-8	Heptachlor	1.64	U
76-44-8	Heptachlor [2C]	1.64	U
1024-57-3	Heptachlor epoxide	1.64	U
1024-57-3	Heptachlor epoxide [2C]	1.64	U
72-43-5	Methoxychlor	8.22	U
72-43-5	Methoxychlor [2C]	1.64	U
8001-35-2	Toxaphene	83.2	U
8001-35-2	Toxaphene [2C]	164	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	66.4	84.5	127	30 - 150	
Decachlorobiphenyl [2C]	66.4	78.4	118	30 - 150	
Tetrachloro-m-xylene	66.4	71.9	108	30 - 150	
Tetrachloro-m-xylene [2C]	66.4	68.5	103	30 - 150	

FORM I

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00362-BLK1	File ID:	P60000451.D
Prepared:	02/10/20 07:17	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/11/20 15:07	Instrument:	GCECD6		
Batch:	BB00362	Sequence:	Y0B1201	Calibration:	YA00016

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
72-54-8	4,4'-DDD	1.64	U
72-54-8	4,4'-DDD [2C]	1.64	U
72-55-9	4,4'-DDE	1.64	U
72-55-9	4,4'-DDE [2C]	1.64	U
50-29-3	4,4'-DDT	1.64	U
50-29-3	4,4'-DDT [2C]	1.64	U
309-00-2	Aldrin	1.64	U
309-00-2	Aldrin [2C]	1.64	U
319-84-6	alpha-BHC	1.64	U
319-84-6	alpha-BHC [2C]	1.64	U
5103-71-9	alpha-Chlordane	1.64	U
5103-71-9	alpha-Chlordane [2C]	1.64	U
319-85-7	beta-BHC	1.64	U
319-85-7	beta-BHC [2C]	1.64	U
57-74-9	Chlordane, total	32.9	U
57-74-9	Chlordane, total [2C]	32.9	U
319-86-8	delta-BHC	1.64	U
319-86-8	delta-BHC [2C]	1.64	U
60-57-1	Dieldrin	1.64	U
60-57-1	Dieldrin [2C]	1.64	U
959-98-8	Endosulfan I	1.64	U
959-98-8	Endosulfan I [2C]	1.64	U
33213-65-9	Endosulfan II	1.64	U
33213-65-9	Endosulfan II [2C]	1.64	U
1031-07-8	Endosulfan sulfate	1.64	U
1031-07-8	Endosulfan sulfate [2C]	1.64	U
72-20-8	Endrin	1.64	U
72-20-8	Endrin [2C]	1.64	U
7421-93-4	Endrin aldehyde	1.64	U
7421-93-4	Endrin aldehyde [2C]	1.64	U

FORM I

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00362-BLK1	File ID:	P60000451.D
Prepared:	02/10/20 07:17	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/11/20 15:07	Instrument:	GCECD6		
Batch:	BB00362	Sequence:	Y0B1201	Calibration:	YA00016

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
53494-70-5	Endrin ketone	1.64	U
53494-70-5	Endrin ketone [2C]	1.64	U
58-89-9	gamma-BHC (Lindane)	1.64	U
58-89-9	gamma-BHC (Lindane) [2C]	1.64	U
5566-34-7	gamma-Chlordane	1.64	U
5566-34-7	gamma-Chlordane [2C]	1.64	U
76-44-8	Heptachlor	1.64	U
76-44-8	Heptachlor [2C]	1.64	U
1024-57-3	Heptachlor epoxide	1.64	U
1024-57-3	Heptachlor epoxide [2C]	1.64	U
72-43-5	Methoxychlor	8.22	U
72-43-5	Methoxychlor [2C]	1.64	U
8001-35-2	Toxaphene	83.2	U
8001-35-2	Toxaphene [2C]	164	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	66.4	53.9	81.1	30 - 150	
Decachlorobiphenyl [2C]	66.4	60.6	91.2	30 - 150	
Tetrachloro-m-xylene	66.4	54.1	81.4	30 - 150	
Tetrachloro-m-xylene [2C]	66.4	65.1	98.0	30 - 150	

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** GC Dual E

Analyte	LOD	LOQ	Units
4,4'-DDD	0.330	0.330	ug/kg
4,4'-DDD [2C]	0.330	0.330	ug/kg
4,4'-DDE	0.330	0.330	ug/kg
4,4'-DDE [2C]	0.330	0.330	ug/kg
4,4'-DDT	0.330	0.330	ug/kg
4,4'-DDT [2C]	0.330	0.330	ug/kg
Aldrin	0.330	0.330	ug/kg
Aldrin [2C]	0.330	0.330	ug/kg
alpha-BHC	0.330	0.330	ug/kg
alpha-BHC [2C]	0.330	0.330	ug/kg
alpha-Chlordane	0.330	0.330	ug/kg
alpha-Chlordane [2C]	0.330	0.330	ug/kg
beta-BHC	0.330	0.330	ug/kg
beta-BHC [2C]	0.330	0.330	ug/kg
Chlordane, total	6.60	6.60	ug/kg
Chlordane, total [2C]	6.60	6.60	ug/kg
delta-BHC	0.330	0.330	ug/kg
delta-BHC [2C]	0.330	0.330	ug/kg
Dieldrin	0.330	0.330	ug/kg
Dieldrin [2C]	0.330	0.330	ug/kg
Endosulfan I	0.330	0.330	ug/kg
Endosulfan I [2C]	0.330	0.330	ug/kg
Endosulfan II	0.330	0.330	ug/kg
Endosulfan II [2C]	0.330	0.330	ug/kg
Endosulfan sulfate	0.330	0.330	ug/kg
Endosulfan sulfate [2C]	0.330	0.330	ug/kg
Endrin	0.330	0.330	ug/kg
Endrin [2C]	0.330	0.330	ug/kg
Endrin aldehyde	0.330	0.330	ug/kg
Endrin aldehyde [2C]	0.330	0.330	ug/kg
Endrin ketone	0.330	0.330	ug/kg
Endrin ketone [2C]	0.330	0.330	ug/kg
gamma-BHC (Lindane)	0.330	0.330	ug/kg
gamma-BHC (Lindane) [2C]	0.330	0.330	ug/kg
gamma-Chlordane	0.330	0.330	ug/kg
gamma-Chlordane [2C]	0.330	0.330	ug/kg
Heptachlor	0.330	0.330	ug/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** GC Dual E

Analyte	LOD	LOQ	Units
Heptachlor [2C]	0.330	0.330	ug/kg
Heptachlor epoxide	0.330	0.330	ug/kg
Heptachlor epoxide [2C]	0.330	0.330	ug/kg
Methoxychlor	1.65	1.65	ug/kg
Methoxychlor [2C]	0.330	0.330	ug/kg
Toxaphene	16.7	16.7	ug/kg
Toxaphene [2C]	33.0	33.0	ug/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** GCECD6

Analyte	LOD	LOQ	Units
4,4'-DDD	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
4,4'-DDD [2C]	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
4,4'-DDE	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
4,4'-DDE [2C]	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
4,4'-DDT	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
4,4'-DDT [2C]	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
Aldrin	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
Aldrin [2C]	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
alpha-BHC	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
alpha-BHC [2C]	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
alpha-Chlordane	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
alpha-Chlordane [2C]	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
beta-BHC	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
beta-BHC [2C]	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
Chlordane, total	6.60	6.60	ug/kg
Chlordane, total [2C]	6.60	6.60	ug/kg
delta-BHC	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
delta-BHC [2C]	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
Dieldrin	0.00200	0.00200	ug/L
	0.330	0.330	ug/kg
Dieldrin [2C]	0.330	0.330	ug/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Water **Instrument:** GCECD6

Analyte	LOD	LOQ	Units
Dieldrin [2C]	0.00200	0.00200	ug/L
Endosulfan I	0.330	0.330	ug/kg
	0.00400	0.00400	ug/L
Endosulfan I [2C]	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Endosulfan II	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Endosulfan II [2C]	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Endosulfan sulfate	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Endosulfan sulfate [2C]	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Endrin	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Endrin [2C]	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Endrin aldehyde	0.0100	0.0100	ug/L
	0.330	0.330	ug/kg
Endrin aldehyde [2C]	0.0100	0.0100	ug/L
	0.330	0.330	ug/kg
Endrin ketone	0.0100	0.0100	ug/L
	0.330	0.330	ug/kg
Endrin ketone [2C]	0.0100	0.0100	ug/L
	0.330	0.330	ug/kg
gamma-BHC (Lindane)	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
gamma-BHC (Lindane) [2C]	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
gamma-Chlordane	0.0100	0.0100	ug/L
	0.330	0.330	ug/kg
gamma-Chlordane [2C]	0.0100	0.0100	ug/L
	0.330	0.330	ug/kg
Heptachlor	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Heptachlor [2C]	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Water **Instrument:** GCECD6

Analyte	LOD	LOQ	Units
Heptachlor epoxide	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Heptachlor epoxide [2C]	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Methoxychlor	0.00400	0.00400	ug/L
	1.65	1.65	ug/kg
Methoxychlor [2C]	0.00400	0.00400	ug/L
	0.330	0.330	ug/kg
Toxaphene	16.7	16.7	ug/kg
Toxaphene [2C]	33.0	33.0	ug/kg

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

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
SB-1 (0-2)	02/04/20 09:40	02/04/20 19:35	02/07/20 07:48	2.92	14.00	02/11/20 12:52	4.21	40.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/10/20 07:17	5.88	14.00	02/11/20 13:09	1.24	40.00	
SB-3 (0-2)	02/04/20 12:45	02/04/20 19:35	02/10/20 07:17	5.77	14.00	02/11/20 13:26	1.26	40.00	
SB-3 (13-15)	02/04/20 13:25	02/04/20 19:35	02/10/20 07:17	5.74	14.00	02/11/20 13:43	1.27	40.00	
SB-4 (0-2)	02/04/20 14:50	02/04/20 19:35	02/10/20 07:17	5.69	14.00	02/11/20 13:59	1.28	40.00	
SB-4 (13-15)	02/04/20 15:00	02/04/20 19:35	02/10/20 07:17	5.68	14.00	02/11/20 14:16	1.29	40.00	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID: P60000443.D

Sampled: 02/04/20 09:40 Prepared: 02/07/20 07:48 Analyzed: 02/11/20 12:52

Solids: 81.01 Preparation: EPA 3550C Initial/Final: 30.4 g / 10 mL

Batch: BB00283 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.01	U
72-55-9	4,4'-DDE	5	46.1	D
50-29-3	4,4'-DDT	5	33.2	D
309-00-2	Aldrin	5	2.01	U
319-84-6	alpha-BHC	5	2.01	U
5103-71-9	alpha-Chlordane	5	8.62	DP
319-85-7	beta-BHC	5	2.01	U
57-74-9	Chlordane, total	5	42.0	D
319-86-8	delta-BHC	5	2.01	U
60-57-1	Dieldrin	5	2.01	U
959-98-8	Endosulfan I	5	2.01	U
33213-65-9	Endosulfan II	5	2.01	U
1031-07-8	Endosulfan sulfate	5	2.01	U
72-20-8	Endrin	5	2.01	U
7421-93-4	Endrin aldehyde	5	2.01	U
53494-70-5	Endrin ketone	5	2.01	U
58-89-9	gamma-BHC (Lindane)	5	2.01	U
5566-34-7	gamma-Chlordane	5	6.40	D
76-44-8	Heptachlor	5	2.01	U
1024-57-3	Heptachlor epoxide	5	2.01	U
72-43-5	Methoxychlor	5	10.0	U
8001-35-2	Toxaphene	5	102	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	81.2	44.7	55.1	30 - 150	
Tetrachloro-m-xylene	81.2	33.7	41.5	30 - 150	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000443.D
Acq On : 11 Feb 2020 12:52 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-01
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 14 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 13:26:13 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

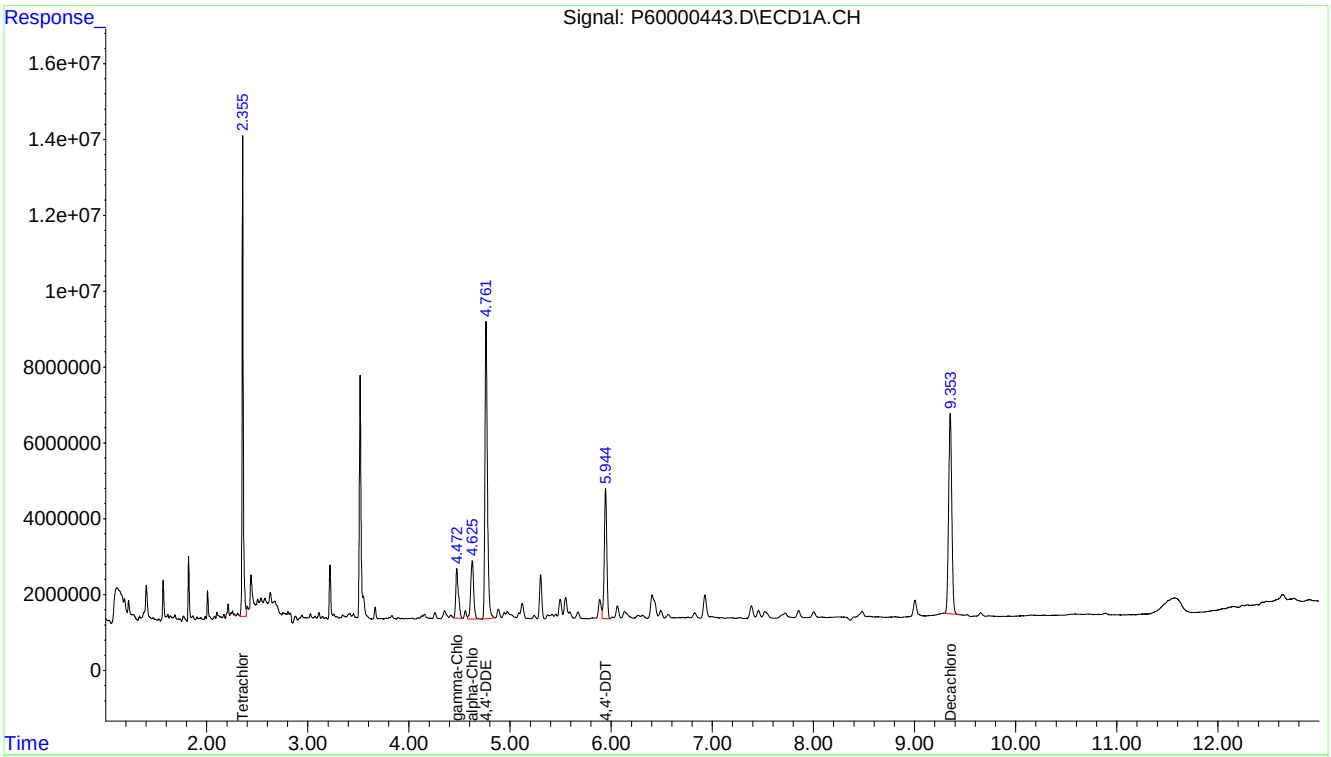
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.355	104875050	16.611	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mL
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mL
4)	beta-BHC	0.000	0	N.D.	ng/mL
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mL
7)	Aldrin	0.000	0	N.D.	ng/mL
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mL
10)	gamma-Chlordane	4.473	23843220	3.152	ng/mL
11)	alpha-Chlordane	4.625	31415843	4.246	ng/mLm
12)	Endosulfan I	0.000	0	N.D.	ng/mLd
13)	4,4'-DDE	4.762	132264481	22.688	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	0.000	0	N.D.	ng/mLd
16)	4,4'-DDD	0.000	0	N.D.	ng/mLd
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	5.944	59105337	16.350	ng/mL
19)	Endrin Aldehyde	0.000	0	N.D.	ng/mLd
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mLd
22)	Endrin Ketone	0.000	0	N.D.	ng/mL
23)	Decachlorobiphenyl	9.353	116601436	22.034	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	230057181	18.822	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mLd
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	5.199	59513295	3.721	ng/mL
35)	alpha-Chlordane #2	5.404	43985297	2.805	ng/mLm
36)	Endosulfan I #2	0.000	0	N.D.	ng/mLd
37)	4,4'-DDE #2	5.685	313119068	18.543	ng/mL
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	0.000	0	N.D.	ng/mL
40)	4.4'-DDD #2	0.000	0	N.D.	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mL
42)	4,4'-DDT #2	7.095	149444368	17.862	ng/mL
43)	Endrin Aldehyde #2	0.000	0	N.D.	ng/mL
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	0.000	0	N.D.	ng/mL
47)	Decachlorobiphenyl #2	11.107	273559620	25.828	ng/mLm

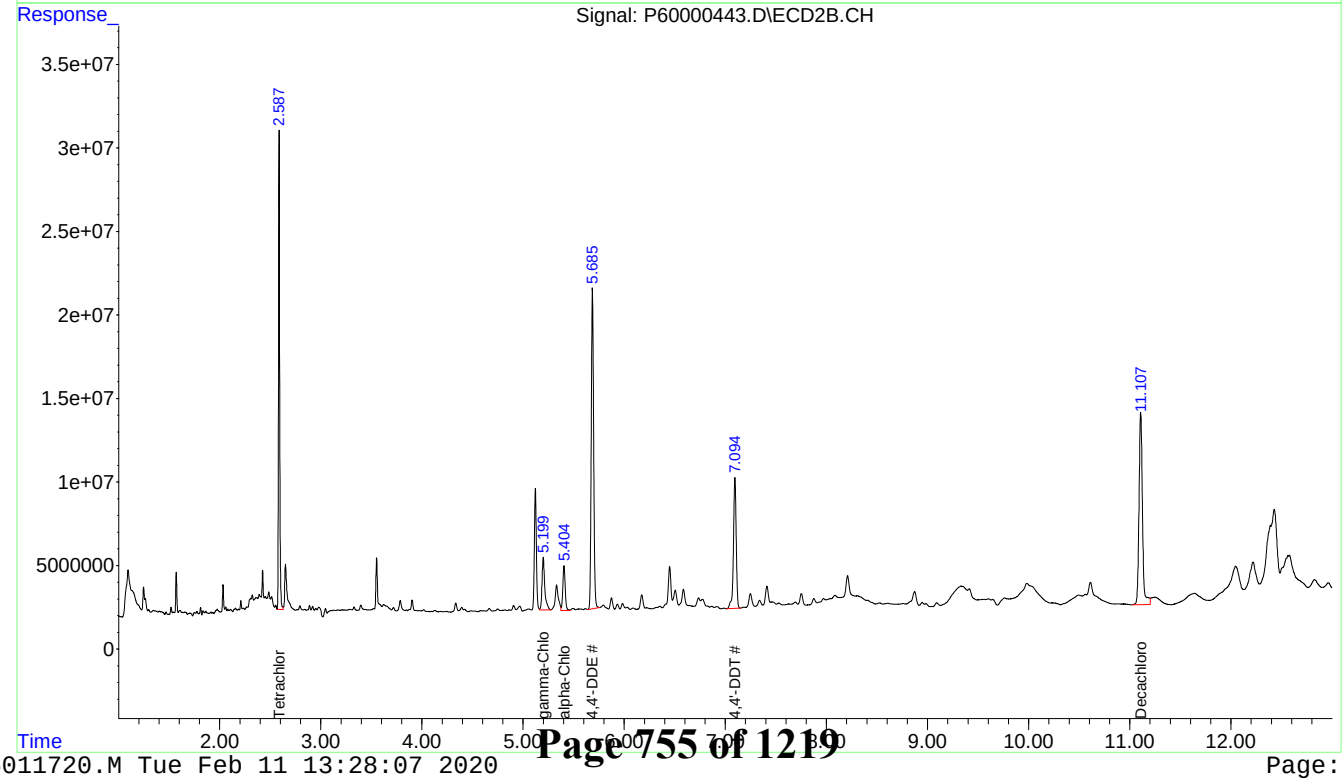
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000443.D
Acq On : 11 Feb 2020 12:52 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-01
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 14 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 13:26:13 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID: P60000444.D

Sampled: 02/04/20 10:10 Prepared: 02/10/20 07:17 Analyzed: 02/11/20 13:09

Solids: 76.97 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BB00362 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	6.89	D
72-55-9	4,4'-DDE	5	12.3	D
50-29-3	4,4'-DDT	5	24.9	D
309-00-2	Aldrin	5	2.14	U
319-84-6	alpha-BHC	5	2.14	U
5103-71-9	alpha-Chlordane	5	2.14	U
319-85-7	beta-BHC	5	2.14	U
57-74-9	Chlordane, total	5	42.7	U
319-86-8	delta-BHC	5	2.14	U
60-57-1	Dieldrin	5	2.14	U
959-98-8	Endosulfan I	5	2.14	U
33213-65-9	Endosulfan II	5	2.14	U
1031-07-8	Endosulfan sulfate	5	2.14	U
72-20-8	Endrin	5	2.14	U
7421-93-4	Endrin aldehyde	5	2.14	U
53494-70-5	Endrin ketone	5	2.14	U
58-89-9	gamma-BHC (Lindane)	5	2.14	U
5566-34-7	gamma-Chlordane	5	2.14	U
76-44-8	Heptachlor	5	2.14	U
1024-57-3	Heptachlor epoxide	5	2.14	U
72-43-5	Methoxychlor	5	10.7	U
8001-35-2	Toxaphene	5	108	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	86.3	50.2	58.2	30 - 150	
Tetrachloro-m-xylene	86.3	31.4	36.4	30 - 150	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000444.D
Acq On : 11 Feb 2020 1:09 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-02
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 15 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 13:28:20 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

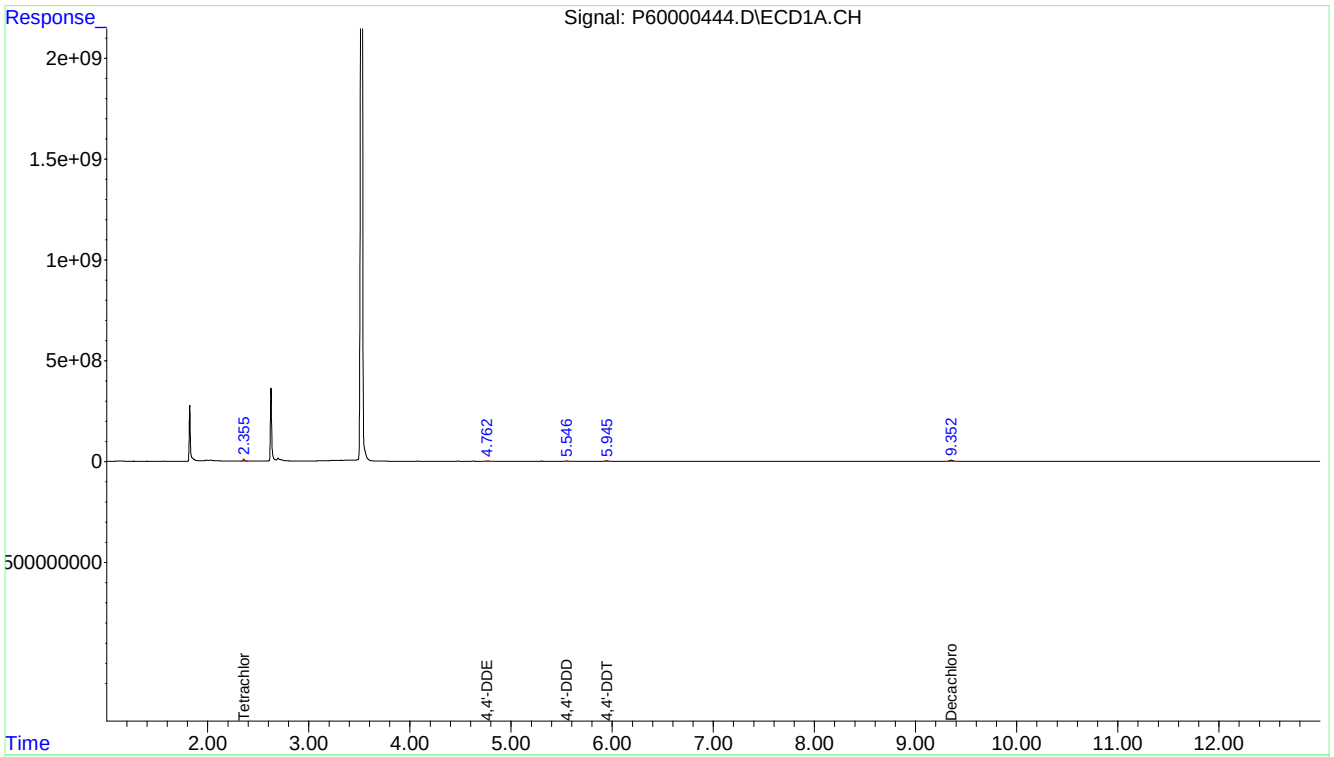
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.355	91823854	14.544	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mLd
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mLd
4)	beta-BHC	0.000	0	N.D.	ng/mLd
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mLd
7)	Aldrin	0.000	0	N.D.	ng/mL
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mL
10)	gamma-Chlordane	0.000	0	N.D.	ng/mLd
11)	alpha-Chlordane	0.000	0	N.D.	ng/mLd
12)	Endosulfan I	0.000	0	N.D.	ng/mLd
13)	4,4'-DDE	4.762	33110300	5.680	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	0.000	0	N.D.	ng/mLd
16)	4,4'-DDD	5.546	17679435	3.191	ng/mL
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	5.945	41763772	11.553	ng/mL
19)	Endrin Aldehyde	0.000	0	N.D.	ng/mL
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mL
22)	Endrin Ketone	0.000	0	N.D.	ng/mL
23)	Decachlorobiphenyl	9.352	123188696	23.279	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	231293771	18.923	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mLd
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mLd
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mL
36)	Endosulfan I #2	0.000	0	N.D.	ng/mL
37)	4,4'-DDE #2	5.686	77452908	4.587	ng/mL
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	0.000	0	N.D.	ng/mL
40)	4.4'-DDD #2	6.586	38857855	3.287	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mLd
42)	4,4'-DDT #2	7.095	101847252	12.107	ng/mL
43)	Endrin Aldehyde #2	0.000	0	N.D.	ng/mL
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	0.000	0	N.D.	ng/mL
47)	Decachlorobiphenyl #2	11.109	265488376	25.066	ng/mL

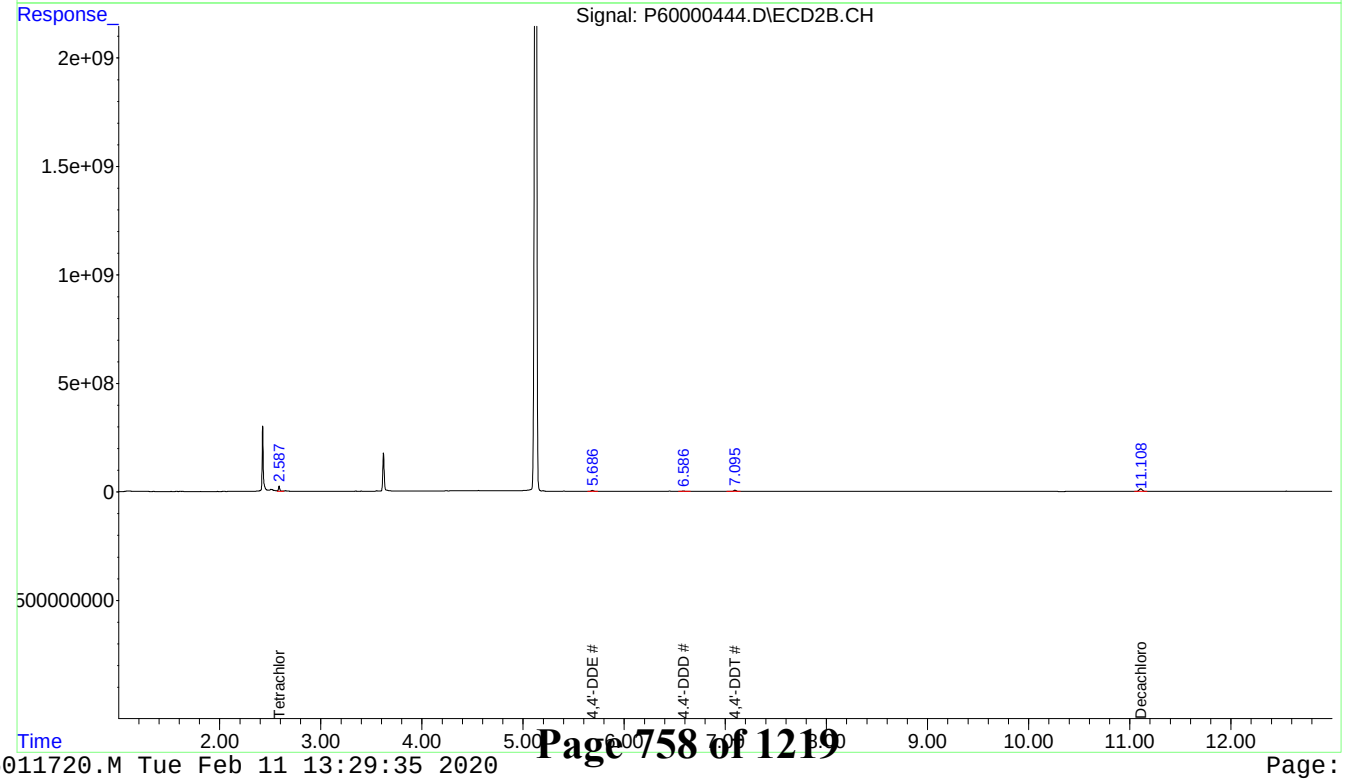
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000444.D
Acq On : 11 Feb 2020 1:09 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-02
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 15 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 13:28:20 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

SB-3 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-03	File ID:	P60000445.D
Sampled:	02/04/20 12:45	Prepared:	02/10/20 07:17	Analyzed:	02/11/20 13:26
Solids:	87.50	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 10 mL
Batch:	BB00362	Sequence:	Y0B1201	Calibration:	YA00016
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.85	U
72-55-9	4,4'-DDE	5	1.85	U
50-29-3	4,4'-DDT	5	1.85	U
309-00-2	Aldrin	5	1.85	U
319-84-6	alpha-BHC	5	1.85	U
5103-71-9	alpha-Chlordane	5	1.85	U
319-85-7	beta-BHC	5	1.85	U
57-74-9	Chlordane, total	5	37.0	U
319-86-8	delta-BHC	5	1.85	U
60-57-1	Dieldrin	5	1.85	U
959-98-8	Endosulfan I	5	1.85	U
33213-65-9	Endosulfan II	5	1.85	U
1031-07-8	Endosulfan sulfate	5	1.85	U
72-20-8	Endrin	5	1.85	U
7421-93-4	Endrin aldehyde	5	1.85	U
53494-70-5	Endrin ketone	5	1.85	U
58-89-9	gamma-BHC (Lindane)	5	1.85	U
5566-34-7	gamma-Chlordane	5	1.85	U
76-44-8	Heptachlor	5	1.85	U
1024-57-3	Heptachlor epoxide	5	1.85	U
72-43-5	Methoxychlor	5	9.24	U
8001-35-2	Toxaphene	5	93.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	74.7	39.9	53.5	30 - 150	
Tetrachloro-m-xylene	74.7	29.7	39.7	30 - 150	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000445.D
Acq On : 11 Feb 2020 1:26 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-03
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 16 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 13:44:13 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

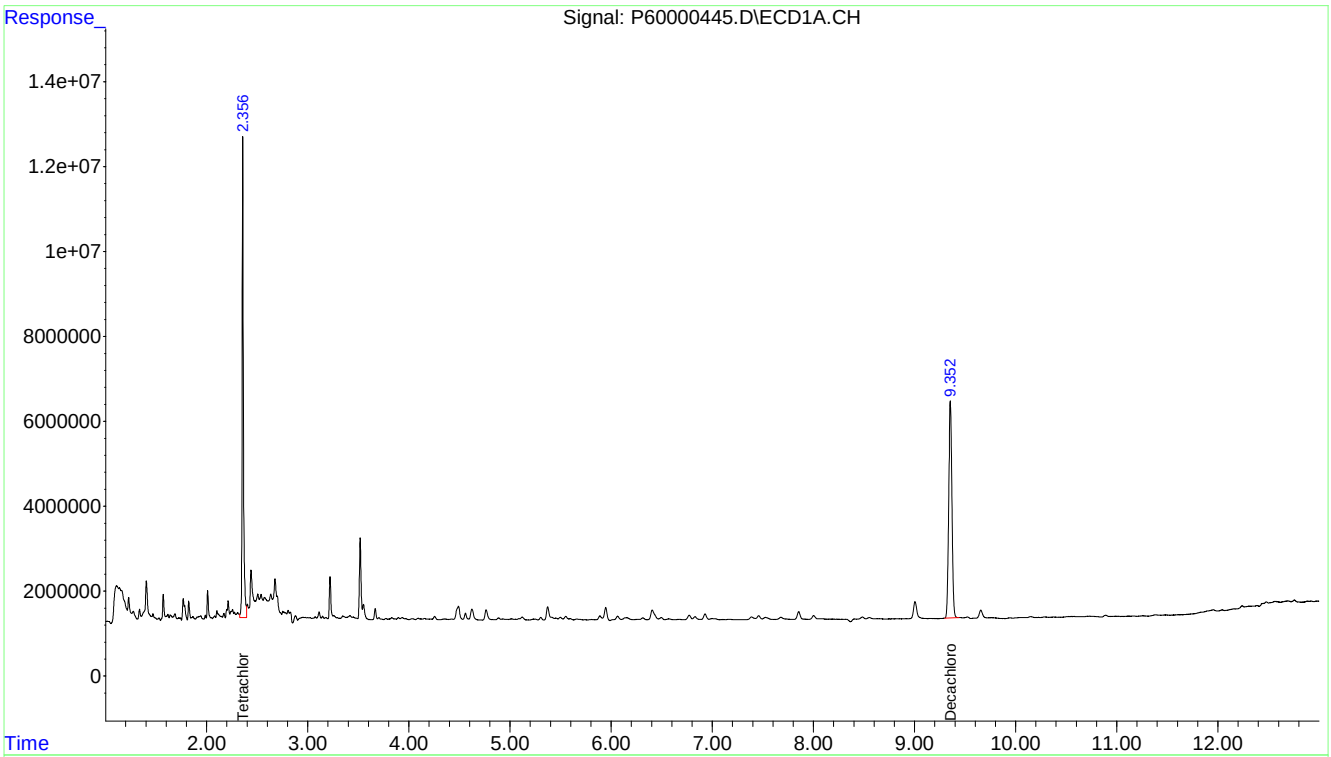
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.356	100297713	15.886	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mLd
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mL
4)	beta-BHC	0.000	0	N.D.	ng/mL
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mL
7)	Aldrin	0.000	0	N.D.	ng/mL
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mL
10)	gamma-Chlordane	0.000	0	N.D.	ng/mL
11)	alpha-Chlordane	0.000	0	N.D.	ng/mL
12)	Endosulfan I	0.000	0	N.D.	ng/mL
13)	4,4'-DDE	0.000	0	N.D.	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	0.000	0	N.D.	ng/mL
16)	4,4'-DDD	0.000	0	N.D.	ng/mL
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	0.000	0	N.D.	ng/mL
19)	Endrin Aldehyde	0.000	0	N.D.	ng/mL
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mL
22)	Endrin Ketone	0.000	0	N.D.	ng/mL
23)	Decachlorobiphenyl	9.353	113187410	21.389	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	220308800	18.025	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mLd
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mL
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mL
36)	Endosulfan I #2	0.000	0	N.D.	ng/mL
37)	4,4'-DDE #2	0.000	0	N.D.	ng/mL
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	0.000	0	N.D.	ng/mL
40)	4.4'-DDD #2	0.000	0	N.D.	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mL
42)	4,4'-DDT #2	0.000	0	N.D.	ng/mL
43)	Endrin Aldehyde #2	0.000	0	N.D.	ng/mL
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	0.000	0	N.D.	ng/mL
47)	Decachlorobiphenyl #2	11.109	254008912	23.982	ng/mLm

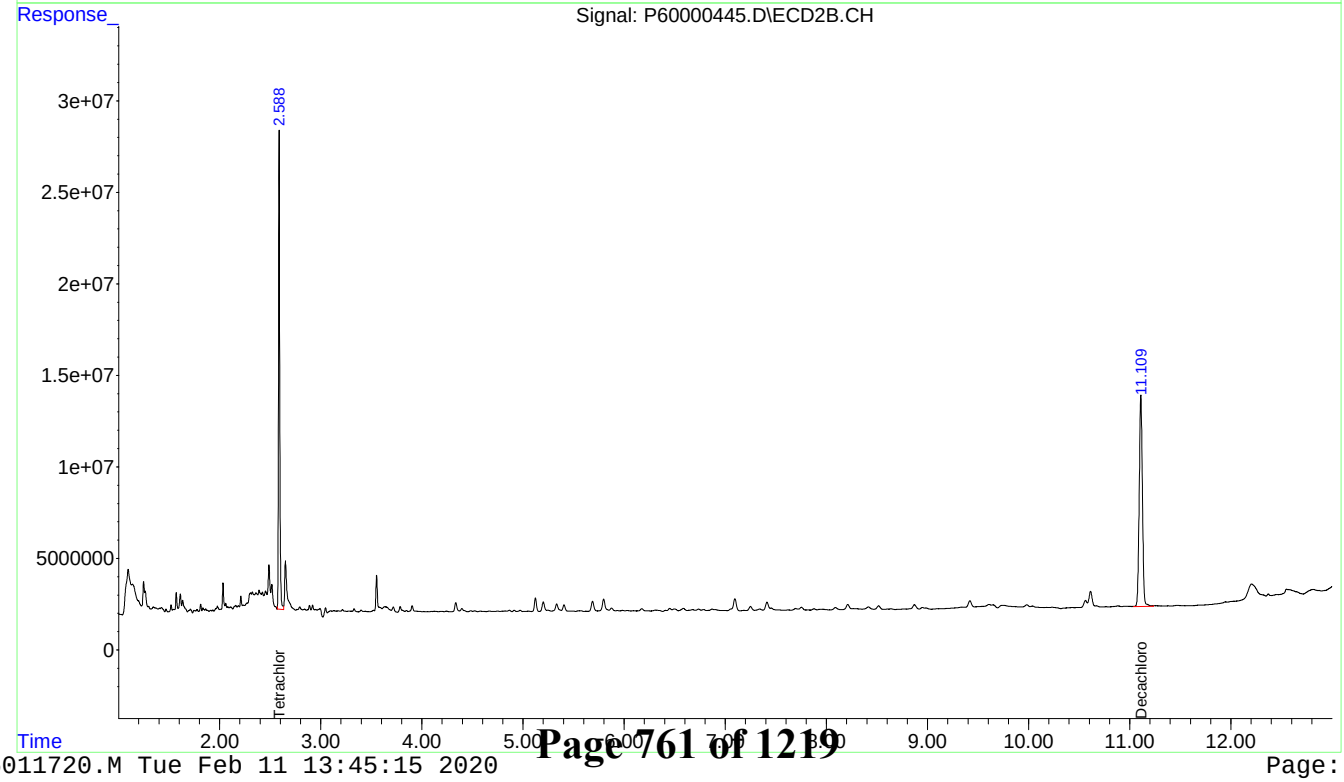
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000445.D
Acq On : 11 Feb 2020 1:26 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-03
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 16 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 13:44:13 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

SB-3 (13-15)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-05	File ID:	P60000446.D
Sampled:	02/04/20 13:25	Prepared:	02/10/20 07:17	Analyzed:	02/11/20 13:43
Solids:	80.23	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BB00362	Sequence:	Y0B1201	Calibration:	YA00016
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.02	U
72-55-9	4,4'-DDE	5	2.02	U
50-29-3	4,4'-DDT	5	2.02	U
309-00-2	Aldrin	5	2.02	U
319-84-6	alpha-BHC	5	2.02	U
5103-71-9	alpha-Chlordane	5	2.02	U
319-85-7	beta-BHC	5	2.02	U
57-74-9	Chlordane, total	5	40.5	U
319-86-8	delta-BHC	5	2.02	U
60-57-1	Dieldrin	5	2.02	U
959-98-8	Endosulfan I	5	2.02	U
33213-65-9	Endosulfan II	5	2.02	U
1031-07-8	Endosulfan sulfate	5	2.02	U
72-20-8	Endrin	5	2.02	U
7421-93-4	Endrin aldehyde	5	2.02	U
53494-70-5	Endrin ketone	5	2.02	U
58-89-9	gamma-BHC (Lindane)	5	2.02	U
5566-34-7	gamma-Chlordane	5	2.02	U
76-44-8	Heptachlor	5	2.02	U
1024-57-3	Heptachlor epoxide	5	2.02	U
72-43-5	Methoxychlor	5	10.1	U
8001-35-2	Toxaphene	5	102	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	81.7	46.3	56.6	30 - 150	
Tetrachloro-m-xylene	81.7	31.9	39.1	30 - 150	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000446.D
Acq On : 11 Feb 2020 1:43 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-05
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 17 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 14:28:28 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

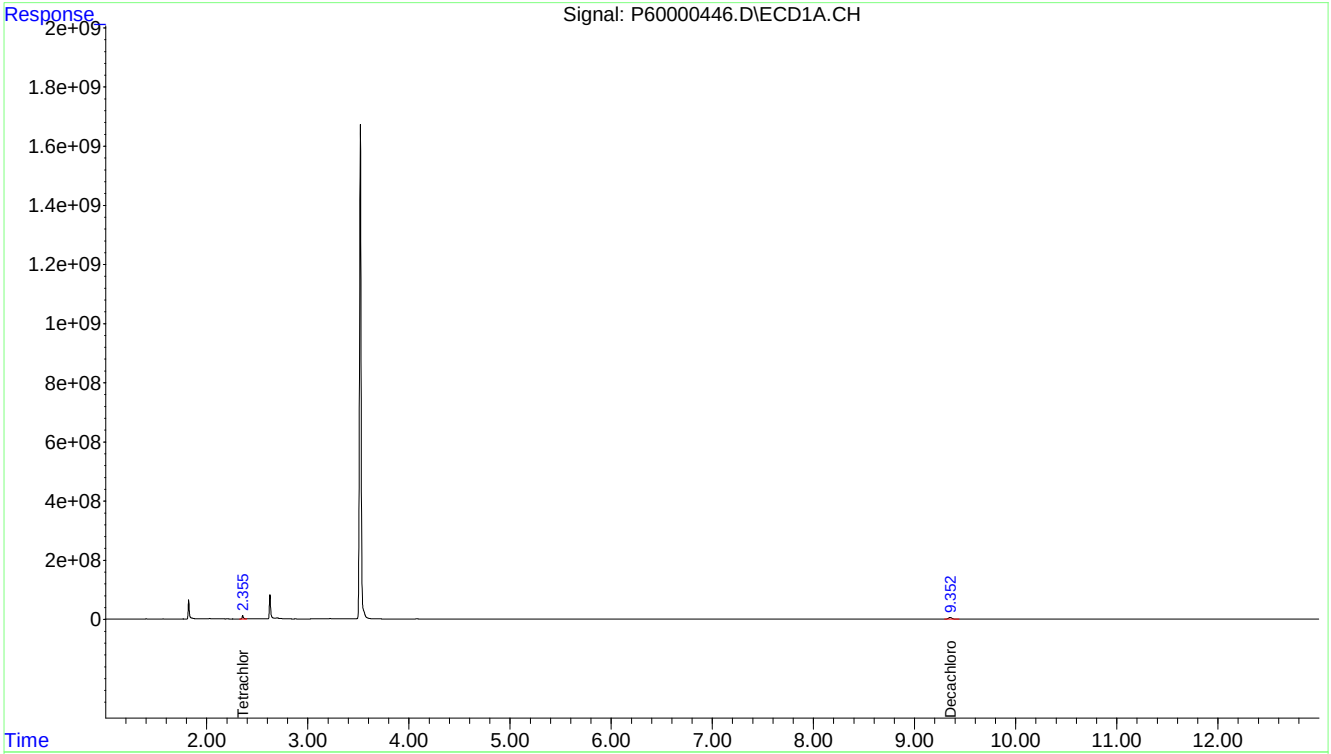
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.355	98642491	15.624	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mLd
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mL
4)	beta-BHC	0.000	0	N.D.	ng/mL
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mLd
7)	Aldrin	0.000	0	N.D.	ng/mL
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mL
10)	gamma-Chlordane	0.000	0	N.D.	ng/mL
11)	alpha-Chlordane	0.000	0	N.D.	ng/mL
12)	Endosulfan I	0.000	0	N.D.	ng/mL
13)	4,4'-DDE	0.000	0	N.D.	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	0.000	0	N.D.	ng/mL
16)	4,4'-DDD	0.000	0	N.D.	ng/mL
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	0.000	0	N.D.	ng/mL
19)	Endrin Aldehyde	0.000	0	N.D.	ng/mL
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mL
22)	Endrin Ketone	0.000	0	N.D.	ng/mL
23)	Decachlorobiphenyl	9.353	119809020	22.640	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	229608991	18.786	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mLd
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mLd
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mL
36)	Endosulfan I #2	0.000	0	N.D.	ng/mL
37)	4,4'-DDE #2	0.000	0	N.D.	ng/mL
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	0.000	0	N.D.	ng/mL
40)	4.4'-DDD #2	0.000	0	N.D.	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mL
42)	4,4'-DDT #2	0.000	0	N.D.	ng/mL
43)	Endrin Aldehyde #2	0.000	0	N.D.	ng/mL
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	0.000	0	N.D.	ng/mL
47)	Decachlorobiphenyl #2	11.110	263761592	24.903	ng/mL

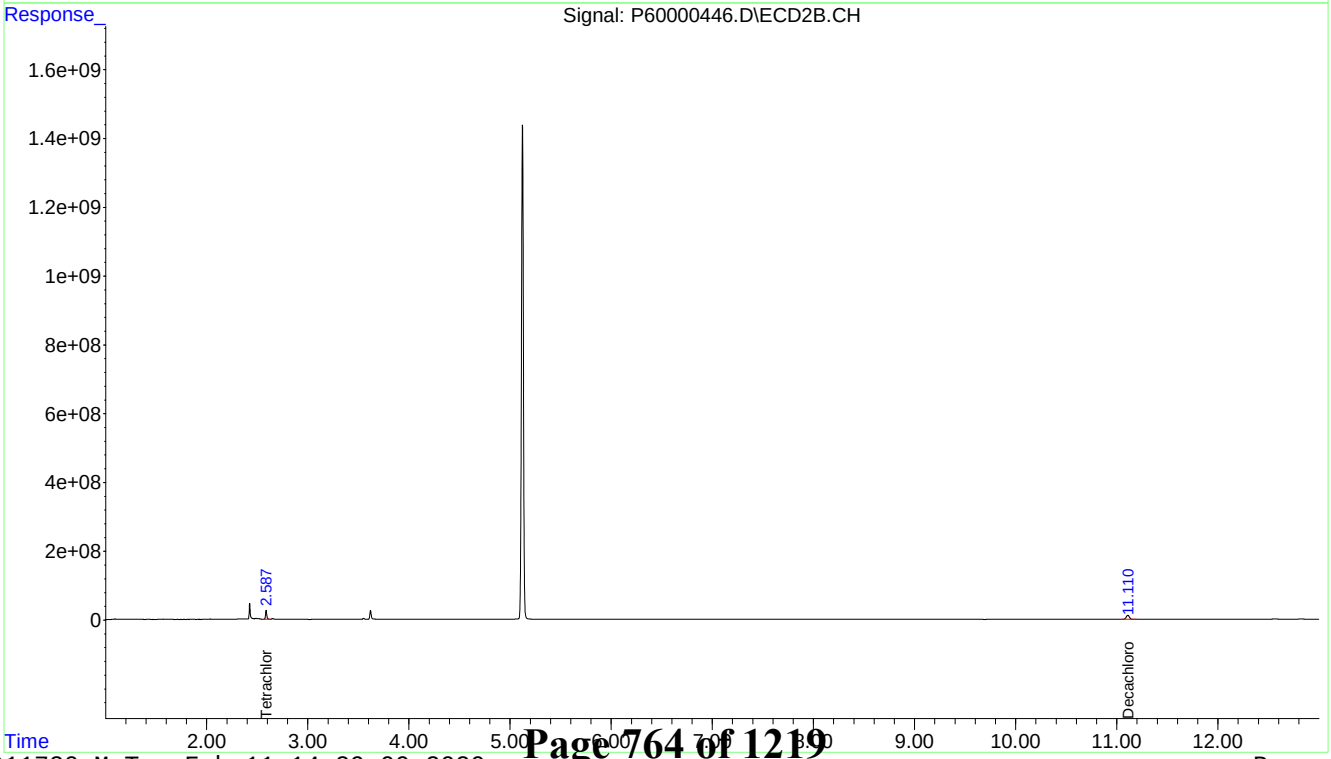
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000446.D
Acq On : 11 Feb 2020 1:43 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-05
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 17 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 14:28:28 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-06	File ID:	P60000447.D
Sampled:	02/04/20 14:50	Prepared:	02/10/20 07:17	Analyzed:	02/11/20 13:59
Solids:	88.89	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BB00362	Sequence:	Y0B1201	Calibration:	YA00016
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.85	U
72-55-9	4,4'-DDE	5	1.85	U
50-29-3	4,4'-DDT	5	1.85	U
309-00-2	Aldrin	5	1.85	U
319-84-6	alpha-BHC	5	1.85	U
5103-71-9	alpha-Chlordane	5	1.85	U
319-85-7	beta-BHC	5	1.85	U
57-74-9	Chlordane, total	5	37.0	U
319-86-8	delta-BHC	5	1.85	U
60-57-1	Dieldrin	5	1.85	U
959-98-8	Endosulfan I	5	1.85	U
33213-65-9	Endosulfan II	5	1.85	U
1031-07-8	Endosulfan sulfate	5	1.85	U
72-20-8	Endrin	5	1.85	U
7421-93-4	Endrin aldehyde	5	1.85	U
53494-70-5	Endrin ketone	5	1.85	U
58-89-9	gamma-BHC (Lindane)	5	1.85	U
5566-34-7	gamma-Chlordane	5	1.85	U
76-44-8	Heptachlor	5	1.85	U
1024-57-3	Heptachlor epoxide	5	1.85	U
72-43-5	Methoxychlor	5	9.25	U
8001-35-2	Toxaphene	5	93.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	74.7	48.5	64.9	30 - 150	
Tetrachloro-m-xylene	74.7	32.7	43.8	30 - 150	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000447.D
Acq On : 11 Feb 2020 1:59 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-06
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 18 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 14:29:16 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

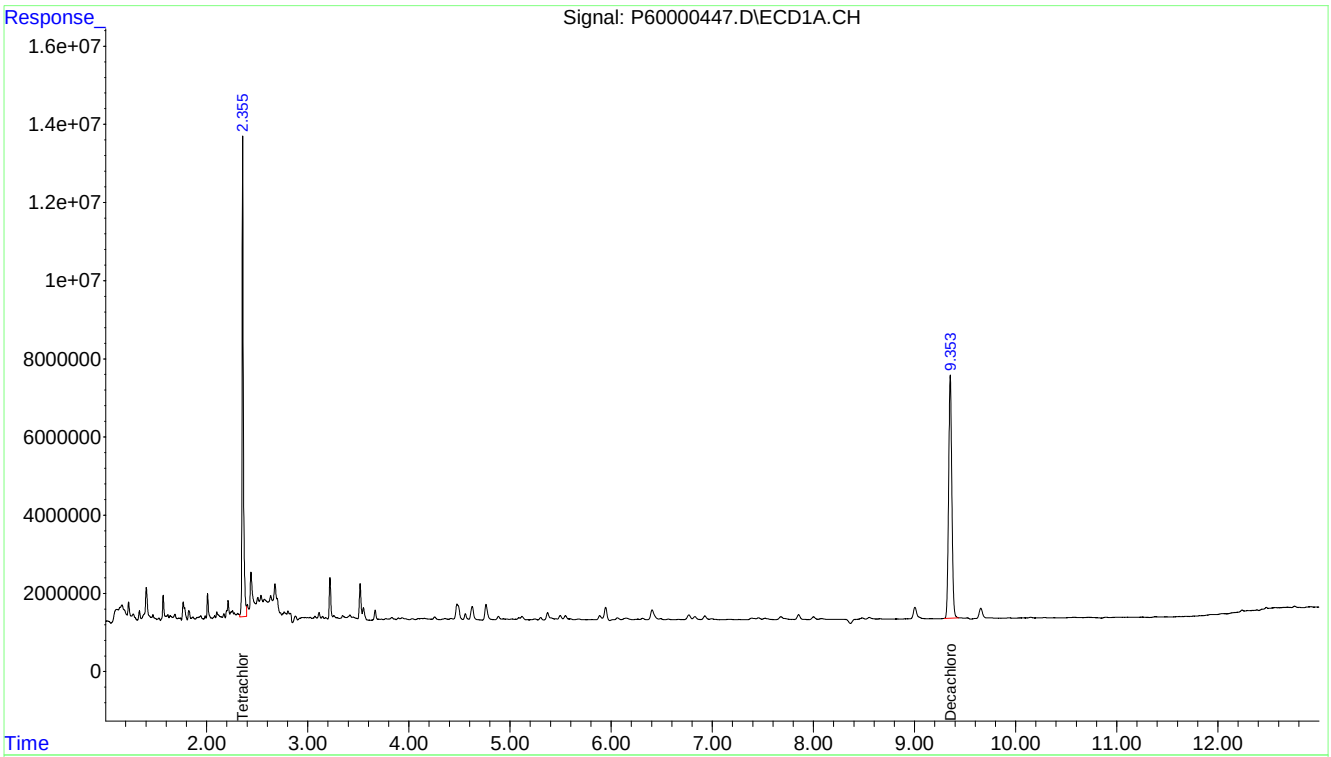
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.355	110651599	17.526	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mLd
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mL
4)	beta-BHC	0.000	0	N.D.	ng/mL
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mL
7)	Aldrin	0.000	0	N.D.	ng/mL
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mL
10)	gamma-Chlordane	0.000	0	N.D.	ng/mL
11)	alpha-Chlordane	0.000	0	N.D.	ng/mL
12)	Endosulfan I	0.000	0	N.D.	ng/mL
13)	4,4'-DDE	0.000	0	N.D.	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	0.000	0	N.D.	ng/mL
16)	4,4'-DDD	0.000	0	N.D.	ng/mL
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	0.000	0	N.D.	ng/mL
19)	Endrin Aldehyde	0.000	0	N.D.	ng/mL
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mL
22)	Endrin Ketone	0.000	0	N.D.	ng/mL
23)	Decachlorobiphenyl	9.354	137394930	25.963	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	245289811	20.069	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mLd
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mL
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mL
36)	Endosulfan I #2	0.000	0	N.D.	ng/mL
37)	4,4'-DDE #2	0.000	0	N.D.	ng/mL
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	0.000	0	N.D.	ng/mL
40)	4.4'-DDD #2	0.000	0	N.D.	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mL
42)	4,4'-DDT #2	0.000	0	N.D.	ng/mL
43)	Endrin Aldehyde #2	0.000	0	N.D.	ng/mL
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	0.000	0	N.D.	ng/mL
47)	Decachlorobiphenyl #2	11.109	302169895	28.530	ng/mL

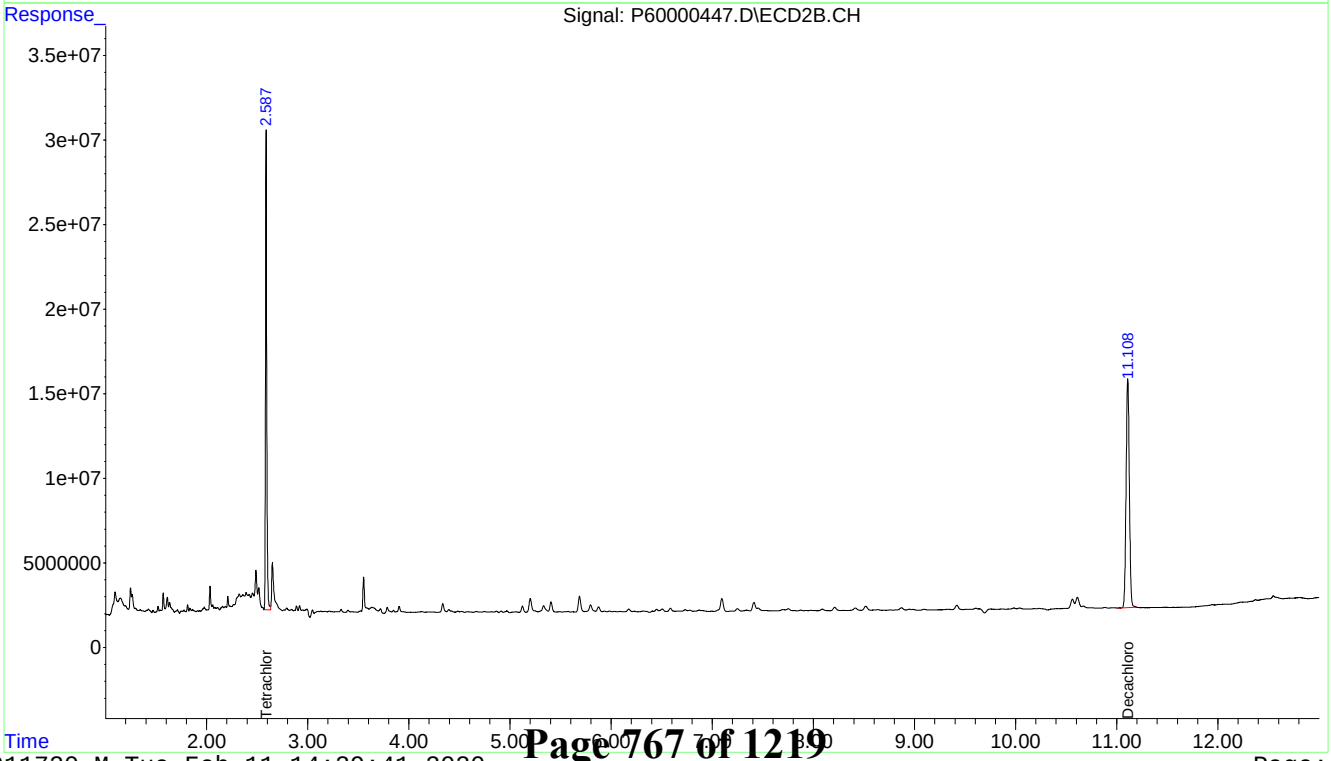
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000447.D
Acq On : 11 Feb 2020 1:59 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-06
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 18 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 14:29:16 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID: P60000448.D

Sampled: 02/04/20 15:00 Prepared: 02/10/20 07:17 Analyzed: 02/11/20 14:16

Solids: 74.61 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BB00362 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.20	U
72-55-9	4,4'-DDE	5	2.20	U
50-29-3	4,4'-DDT	5	2.20	U
309-00-2	Aldrin	5	2.20	U
319-84-6	alpha-BHC	5	2.20	U
5103-71-9	alpha-Chlordane	5	2.20	U
319-85-7	beta-BHC	5	2.20	U
57-74-9	Chlordane, total	5	44.1	U
319-86-8	delta-BHC	5	2.20	U
60-57-1	Dieldrin	5	2.20	U
959-98-8	Endosulfan I	5	2.20	U
33213-65-9	Endosulfan II	5	2.20	U
1031-07-8	Endosulfan sulfate	5	2.20	U
72-20-8	Endrin	5	2.20	U
7421-93-4	Endrin aldehyde	5	2.20	U
53494-70-5	Endrin ketone	5	2.20	U
58-89-9	gamma-BHC (Lindane)	5	2.20	U
5566-34-7	gamma-Chlordane	5	2.20	U
76-44-8	Heptachlor	5	2.20	U
1024-57-3	Heptachlor epoxide	5	2.20	U
72-43-5	Methoxychlor	5	11.0	U
8001-35-2	Toxaphene	5	112	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	89.1	42.2	47.4	30 - 150	
Tetrachloro-m-xylene	89.1	46.7	52.4	30 - 150	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000448.D
Acq On : 11 Feb 2020 2:16 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-07
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 19 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 14:30:10 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

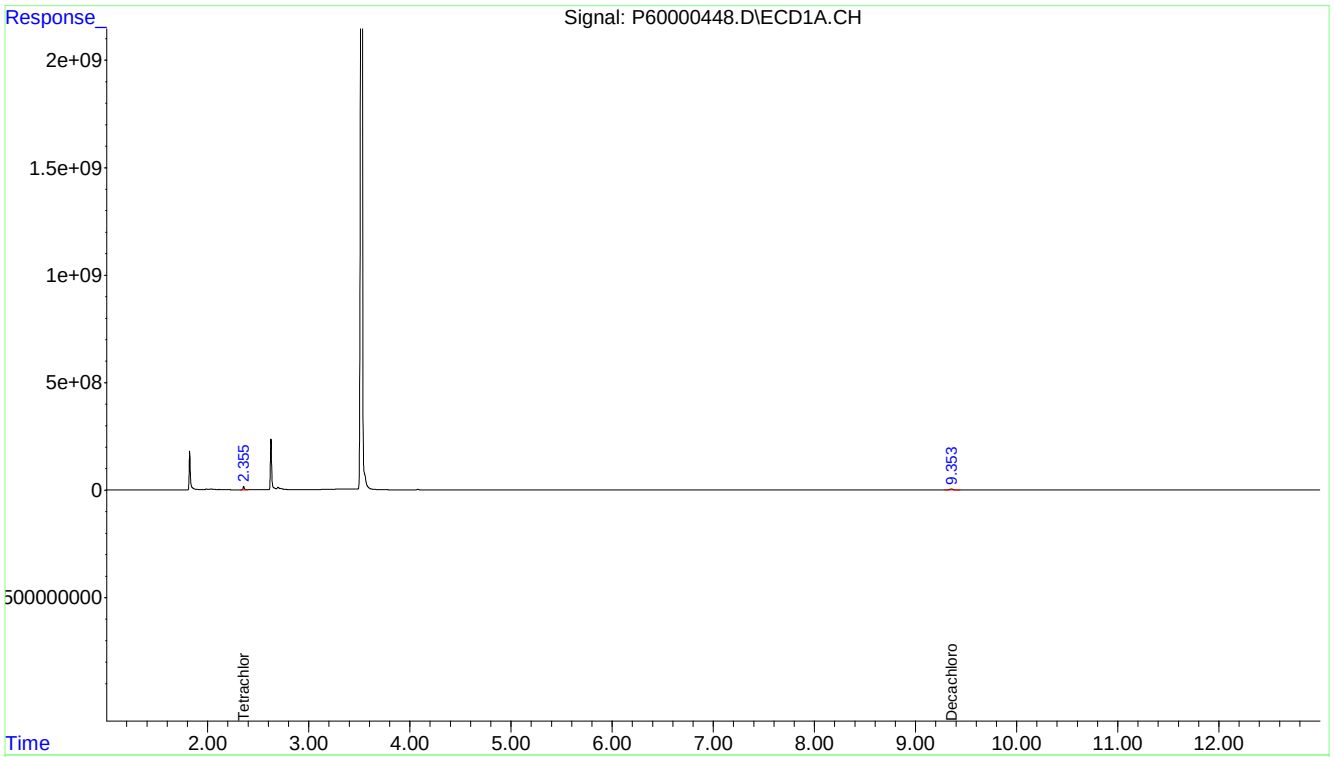
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.355	132401904	20.971	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mLd
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mL
4)	beta-BHC	0.000	0	N.D.	ng/mLd
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mLd
7)	Aldrin	0.000	0	N.D.	ng/mL
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mL
10)	gamma-Chlordane	0.000	0	N.D.	ng/mL
11)	alpha-Chlordane	0.000	0	N.D.	ng/mL
12)	Endosulfan I	0.000	0	N.D.	ng/mL
13)	4,4'-DDE	0.000	0	N.D.	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	0.000	0	N.D.	ng/mL
16)	4,4'-DDD	0.000	0	N.D.	ng/mL
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	0.000	0	N.D.	ng/mL
19)	Endrin Aldehyde	0.000	0	N.D.	ng/mL
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mL
22)	Endrin Ketone	0.000	0	N.D.	ng/mL
23)	Decachlorobiphenyl	9.354	100243916	18.943	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	316504293	25.895	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mL
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mLd
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mL
36)	Endosulfan I #2	0.000	0	N.D.	ng/mL
37)	4,4'-DDE #2	0.000	0	N.D.	ng/mL
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	0.000	0	N.D.	ng/mL
40)	4.4'-DDD #2	0.000	0	N.D.	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mL
42)	4,4'-DDT #2	0.000	0	N.D.	ng/mL
43)	Endrin Aldehyde #2	0.000	0	N.D.	ng/mL
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	0.000	0	N.D.	ng/mL
47)	Decachlorobiphenyl #2	11.109	219778875	20.751	ng/mL

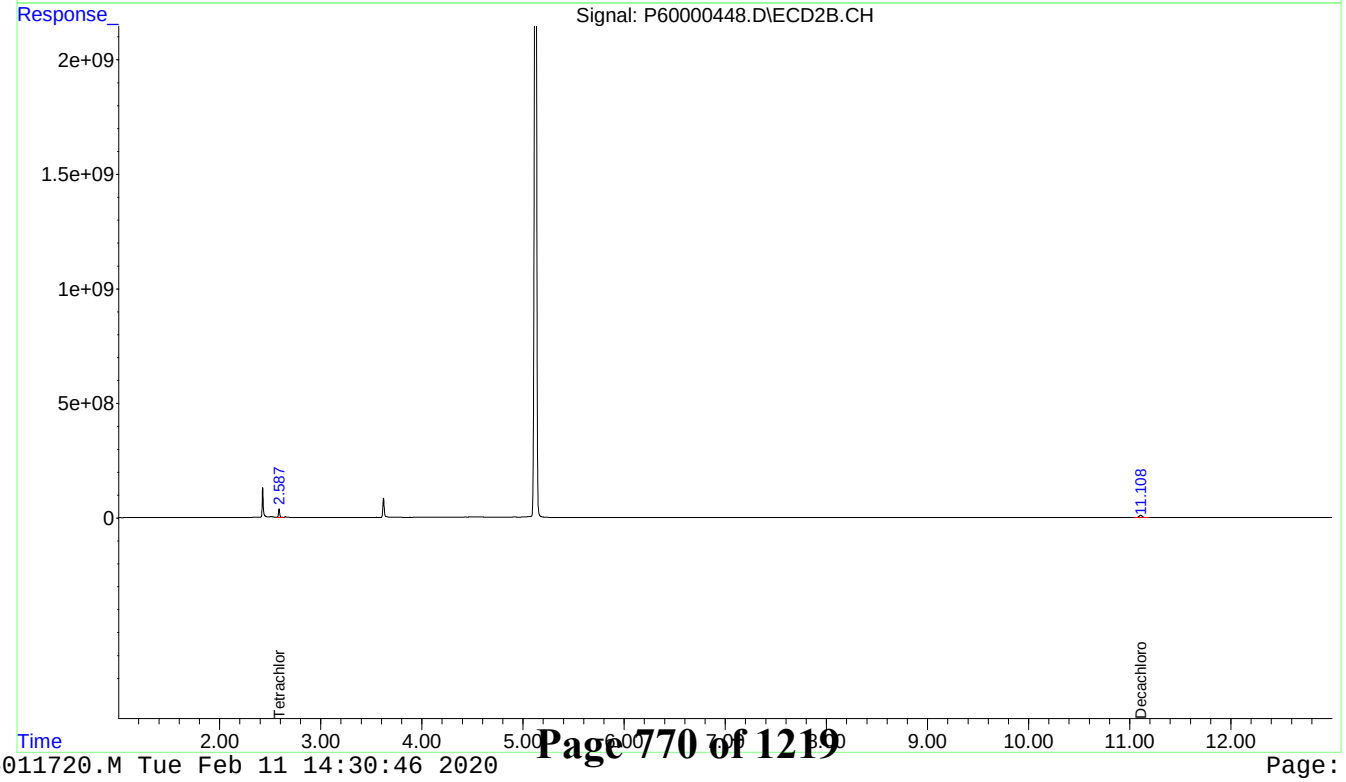
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000448.D
Acq On : 11 Feb 2020 2:16 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : 20B0093-07
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 19 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 14:30:10 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID: P60000443.D

Sampled: 02/04/20 09:40 Prepared: 02/07/20 07:48 Analyzed: 02/11/20 12:52

Solids: 81.01 Preparation: EPA 3550C Initial/Final: 30.4 g / 10 mL

Batch: BB00283 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	COL 1 (ug/kg dry)	COL 2 (ug/kg dry)	% Diff	Q
72-54-8	4,4'-DDD	5	2.01	2.01		U
72-55-9	4,4'-DDE	5	46.1	37.6	20.31	D
50-29-3	4,4'-DDT	5	33.2	36.3	8.92	D
309-00-2	Aldrin	5	2.01	2.01		U
319-84-6	alpha-BHC	5	2.01	2.01		U
5103-71-9	alpha-Chlordane	5	8.62	5.69	40.95	DP
319-85-7	beta-BHC	5	2.01	2.01		U
57-74-9	Chlordane, total	5	42.0	42.0		D
319-86-8	delta-BHC	5	2.01	2.01		U
60-57-1	Dieldrin	5	2.01	2.01		U
959-98-8	Endosulfan I	5	2.01	2.01		U
33213-65-9	Endosulfan II	5	2.01	2.01		U
1031-07-8	Endosulfan sulfate	5	2.01	2.01		U
72-20-8	Endrin	5	2.01	2.01		U
7421-93-4	Endrin aldehyde	5	2.01	2.01		U
53494-70-5	Endrin ketone	5	2.01	2.01		U
58-89-9	gamma-BHC (Lindane)	5	2.01	2.01		U
5566-34-7	gamma-Chlordane	5	6.40	7.55	16.49	D
76-44-8	Heptachlor	5	2.01	2.01		U
1024-57-3	Heptachlor epoxide	5	2.01	2.01		U
72-43-5	Methoxychlor	5	10.0	10.0		U
8001-35-2	Toxaphene	5	102	102		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	81.2	44.7	55.1	30 - 150	
Tetrachloro-m-xylene	81.2	33.7	41.5	30 - 150	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID: P60000444.D

Sampled: 02/04/20 10:10 Prepared: 02/10/20 07:17 Analyzed: 02/11/20 13:09

Solids: 76.97 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BB00362 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	COL 1 (ug/kg dry)	COL 2 (ug/kg dry)	% Diff	Q
72-54-8	4,4'-DDD	5	6.89	7.09	2.86	D
72-55-9	4,4'-DDE	5	12.3	9.90	21.62	D
50-29-3	4,4'-DDT	5	24.9	26.1	4.71	D
309-00-2	Aldrin	5	2.14	2.14		U
319-84-6	alpha-BHC	5	2.14	2.14		U
5103-71-9	alpha-Chlordane	5	2.14	2.14		U
319-85-7	beta-BHC	5	2.14	2.14		U
57-74-9	Chlordane, total	5	42.7	42.7		U
319-86-8	delta-BHC	5	2.14	2.14		U
60-57-1	Dieldrin	5	2.14	2.14		U
959-98-8	Endosulfan I	5	2.14	2.14		U
33213-65-9	Endosulfan II	5	2.14	2.14		U
1031-07-8	Endosulfan sulfate	5	2.14	2.14		U
72-20-8	Endrin	5	2.14	2.14		U
7421-93-4	Endrin aldehyde	5	2.14	2.14		U
53494-70-5	Endrin ketone	5	2.14	2.14		U
58-89-9	gamma-BHC (Lindane)	5	2.14	2.14		U
5566-34-7	gamma-Chlordane	5	2.14	2.14		U
76-44-8	Heptachlor	5	2.14	2.14		U
1024-57-3	Heptachlor epoxide	5	2.14	2.14		U
72-43-5	Methoxychlor	5	10.7	10.7		U
8001-35-2	Toxaphene	5	108	108		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	86.3	50.2	58.2	30 - 150	
Tetrachloro-m-xylene	86.3	31.4	36.4	30 - 150	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID: P60000445.D

Sampled: 02/04/20 12:45 Prepared: 02/10/20 07:17 Analyzed: 02/11/20 13:26

Solids: 87.50 Preparation: EPA 3550C Initial/Final: 30.6 g / 10 mL

Batch: BB00362 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	COL 1 (ug/kg dry)	COL 2 (ug/kg dry)	% Diff	Q
72-54-8	4,4'-DDD	5	1.85	1.85		U
72-55-9	4,4'-DDE	5	1.85	1.85		U
50-29-3	4,4'-DDT	5	1.85	1.85		U
309-00-2	Aldrin	5	1.85	1.85		U
319-84-6	alpha-BHC	5	1.85	1.85		U
5103-71-9	alpha-Chlordane	5	1.85	1.85		U
319-85-7	beta-BHC	5	1.85	1.85		U
57-74-9	Chlordane, total	5	37.0	37.0		U
319-86-8	delta-BHC	5	1.85	1.85		U
60-57-1	Dieldrin	5	1.85	1.85		U
959-98-8	Endosulfan I	5	1.85	1.85		U
33213-65-9	Endosulfan II	5	1.85	1.85		U
1031-07-8	Endosulfan sulfate	5	1.85	1.85		U
72-20-8	Endrin	5	1.85	1.85		U
7421-93-4	Endrin aldehyde	5	1.85	1.85		U
53494-70-5	Endrin ketone	5	1.85	1.85		U
58-89-9	gamma-BHC (Lindane)	5	1.85	1.85		U
5566-34-7	gamma-Chlordane	5	1.85	1.85		U
76-44-8	Heptachlor	5	1.85	1.85		U
1024-57-3	Heptachlor epoxide	5	1.85	1.85		U
72-43-5	Methoxychlor	5	9.24	9.24		U
8001-35-2	Toxaphene	5	93.6	93.6		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	74.7	39.9	53.5	30 - 150	
Tetrachloro-m-xylene	74.7	29.7	39.7	30 - 150	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-3 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-05 File ID: P60000446.D

Sampled: 02/04/20 13:25 Prepared: 02/10/20 07:17 Analyzed: 02/11/20 13:43

Solids: 80.23 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BB00362 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	COL 1 (ug/kg dry)	COL 2 (ug/kg dry)	% Diff	Q
72-54-8	4,4'-DDD	5	2.02	2.02		U
72-55-9	4,4'-DDE	5	2.02	2.02		U
50-29-3	4,4'-DDT	5	2.02	2.02		U
309-00-2	Aldrin	5	2.02	2.02		U
319-84-6	alpha-BHC	5	2.02	2.02		U
5103-71-9	alpha-Chlordane	5	2.02	2.02		U
319-85-7	beta-BHC	5	2.02	2.02		U
57-74-9	Chlordane, total	5	40.5	40.5		U
319-86-8	delta-BHC	5	2.02	2.02		U
60-57-1	Dieldrin	5	2.02	2.02		U
959-98-8	Endosulfan I	5	2.02	2.02		U
33213-65-9	Endosulfan II	5	2.02	2.02		U
1031-07-8	Endosulfan sulfate	5	2.02	2.02		U
72-20-8	Endrin	5	2.02	2.02		U
7421-93-4	Endrin aldehyde	5	2.02	2.02		U
53494-70-5	Endrin ketone	5	2.02	2.02		U
58-89-9	gamma-BHC (Lindane)	5	2.02	2.02		U
5566-34-7	gamma-Chlordane	5	2.02	2.02		U
76-44-8	Heptachlor	5	2.02	2.02		U
1024-57-3	Heptachlor epoxide	5	2.02	2.02		U
72-43-5	Methoxychlor	5	10.1	10.1		U
8001-35-2	Toxaphene	5	102	102		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	81.7	46.3	56.6	30 - 150	
Tetrachloro-m-xylene	81.7	31.9	39.1	30 - 150	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-06 File ID: P60000447.D

Sampled: 02/04/20 14:50 Prepared: 02/10/20 07:17 Analyzed: 02/11/20 13:59

Solids: 88.89 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BB00362 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	COL 1 (ug/kg dry)	COL 2 (ug/kg dry)	% Diff	Q
72-54-8	4,4'-DDD	5	1.85	1.85		U
72-55-9	4,4'-DDE	5	1.85	1.85		U
50-29-3	4,4'-DDT	5	1.85	1.85		U
309-00-2	Aldrin	5	1.85	1.85		U
319-84-6	alpha-BHC	5	1.85	1.85		U
5103-71-9	alpha-Chlordane	5	1.85	1.85		U
319-85-7	beta-BHC	5	1.85	1.85		U
57-74-9	Chlordane, total	5	37.0	37.0		U
319-86-8	delta-BHC	5	1.85	1.85		U
60-57-1	Dieldrin	5	1.85	1.85		U
959-98-8	Endosulfan I	5	1.85	1.85		U
33213-65-9	Endosulfan II	5	1.85	1.85		U
1031-07-8	Endosulfan sulfate	5	1.85	1.85		U
72-20-8	Endrin	5	1.85	1.85		U
7421-93-4	Endrin aldehyde	5	1.85	1.85		U
53494-70-5	Endrin ketone	5	1.85	1.85		U
58-89-9	gamma-BHC (Lindane)	5	1.85	1.85		U
5566-34-7	gamma-Chlordane	5	1.85	1.85		U
76-44-8	Heptachlor	5	1.85	1.85		U
1024-57-3	Heptachlor epoxide	5	1.85	1.85		U
72-43-5	Methoxychlor	5	9.25	9.25		U
8001-35-2	Toxaphene	5	93.6	93.6		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	74.7	48.5	64.9	30 - 150	
Tetrachloro-m-xylene	74.7	32.7	43.8	30 - 150	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID: P60000448.D

Sampled: 02/04/20 15:00 Prepared: 02/10/20 07:17 Analyzed: 02/11/20 14:16

Solids: 74.61 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BB00362 Sequence: Y0B1201 Calibration: YA00016 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	COL 1 (ug/kg dry)	COL 2 (ug/kg dry)	% Diff	Q
72-54-8	4,4'-DDD	5	2.20	2.20		U
72-55-9	4,4'-DDE	5	2.20	2.20		U
50-29-3	4,4'-DDT	5	2.20	2.20		U
309-00-2	Aldrin	5	2.20	2.20		U
319-84-6	alpha-BHC	5	2.20	2.20		U
5103-71-9	alpha-Chlordane	5	2.20	2.20		U
319-85-7	beta-BHC	5	2.20	2.20		U
57-74-9	Chlordane, total	5	44.1	44.1		U
319-86-8	delta-BHC	5	2.20	2.20		U
60-57-1	Dieldrin	5	2.20	2.20		U
959-98-8	Endosulfan I	5	2.20	2.20		U
33213-65-9	Endosulfan II	5	2.20	2.20		U
1031-07-8	Endosulfan sulfate	5	2.20	2.20		U
72-20-8	Endrin	5	2.20	2.20		U
7421-93-4	Endrin aldehyde	5	2.20	2.20		U
53494-70-5	Endrin ketone	5	2.20	2.20		U
58-89-9	gamma-BHC (Lindane)	5	2.20	2.20		U
5566-34-7	gamma-Chlordane	5	2.20	2.20		U
76-44-8	Heptachlor	5	2.20	2.20		U
1024-57-3	Heptachlor epoxide	5	2.20	2.20		U
72-43-5	Methoxychlor	5	11.0	11.0		U
8001-35-2	Toxaphene	5	112	112		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	89.1	42.2	47.4	30 - 150	
Tetrachloro-m-xylene	89.1	46.7	52.4	30 - 150	

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0A2002	Instrument:	GCECD6
Calibration:	YA00016		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
Y19K145	Pest- Pest Mix CAL 1 @ 2.0ng/mL	Y0A2002-CAL1	GC601467.D	01/17/20 14:06
Y19K146	Pest- Pest Mix CAL 2 @ 5.0ng/mL	Y0A2002-CAL2	GC601468.D	01/17/20 14:22
Y19K147	Pest- Pest Mix CAL 3 @ 20.0ng/mL	Y0A2002-CAL3	GC601469.D	01/17/20 14:39
Y19K148	Pest- Pest Mix CAL 4 @ 50.0ng/mL	Y0A2002-CAL4	GC601470.D	01/17/20 14:56
Y19K149	Pest- Pest Mix CAL 5 @ 100.0ng/mL	Y0A2002-CAL5	GC601471.D	01/17/20 15:13
Y19K150	Pest- Pest Mix CAL 6 @ 200.0ng/mL	Y0A2002-CAL6	GC601472.D	01/17/20 15:29
Y19K151	Pest - SCV 50ng/mL	Y0A2002-SCV1	GC601473.D	01/17/20 15:46

INITIAL CALIBRATION STANDARDS

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0A2045	Instrument:	GC Dual E
Calibration:	YB00024		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
Y19K145	Pest- Pest Mix CAL 1 @ 2.0ng/mL	Y0A2045-CAL1	P5062450.D	01/20/20 14:43
Y19K146	Pest- Pest Mix CAL 2 @ 5.0ng/mL	Y0A2045-CAL2	P5062451.D	01/20/20 15:01
Y19K147	Pest- Pest Mix CAL 3 @ 20.0ng/mL	Y0A2045-CAL3	P5062452.D	01/20/20 15:19
Y19K148	Pest- Pest Mix CAL 4 @ 50.0ng/mL	Y0A2045-CAL4	P5062453.D	01/20/20 15:37
Y19K149	Pest- Pest Mix CAL 5 @ 100.0ng/mL	Y0A2045-CAL5	P5062454.D	01/20/20 15:55
Y19K150	Pest- Pest Mix CAL 6 @ 200.0ng/mL	Y0A2045-CAL6	P5062455.D	01/20/20 16:13
Y19K151	Pest - SCV 50ng/mL	Y0A2045-SCV1	P5062456.D	01/20/20 16:31

FORM VI

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.

Client: Roux Associates

Calibration: YA00016

SDG: 20B0093

Project: 3475.00014000 Lafayette

Instrument: GCECD6

Calibration Date: 01/17/20 08:36

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
4,4'-DDD	200	5247730	100	5823001	50	5377110	20	5367570	5	5584476	2	5840550
4,4'-DDD [2C]	200	1.077933E+07	100	1.220737E+07	50	1.177275E+07	20	1.190932E+07	5	1.21203E+07	2	1.214659E+07
4,4'-DDE	200	6374715	100	5427418	50	6727161	20	6200370	5	5856488	2	4391386
4,4'-DDE [2C]	200	1.659985E+07	100	1.690418E+07	50	1.727441E+07	20	1.66842E+07	5	1.712749E+07	2	1.672893E+07
4,4'-DDT	200	3646583	100	4165866	50	3350718	20	3331921	5	3571230	2	3623536
4,4'-DDT [2C]	200	6870925	100	8320786	50	6782004	20	6933725	5	7724050	2	7930125
Aldrin	200	7100355	100	7999097	50	7381658	20	7309295	5	7251036	2	6924345
Aldrin [2C]	200	1.704564E+07	100	1.773743E+07	50	1.813904E+07	20	1.79956E+07	5	1.710863E+07	2	1.726219E+07
alpha-BHC	200	9927500	100	1.042464E+07	50	9782518	20	9339430	5	9317292	2	8998785
alpha-BHC [2C]	200	1.766887E+07	100	1.94282E+07	50	1.891507E+07	20	1.911999E+07	5	1.818616E+07	2	1.717774E+07
alpha-Chlordane	200	7243400	100	7604522	50	7268924	20	7158455	5	7404978	2	7718200
alpha-Chlordane [2C]	200	1.462578E+07	100	1.576001E+07	50	1.578428E+07	20	1.580589E+07	5	1.609444E+07	2	1.600903E+07
beta-BHC	200	2974156	100	3361309	50	2874892	20	2952079	5	3383390	2	3404406
beta-BHC [2C]	200	6029020	100	6978044	50	6862274	20	7123500	5	7230687	2	7194380
Decachlorobiphenyl	240	5350209	200	5416020	160	5349199	120	5382622	80	5671547	50	5498166
Decachlorobiphenyl [2C]	240	1.044654E+07	200	1.075438E+07	160	1.067379E+07	120	1.079326E+07	80	1.151852E+07	50	1.123481E+07
delta-BHC	200	7178810	100	8146233	50	7067834	20	6847095	5	6912176	2	6598635
delta-BHC [2C]	200	1.423312E+07	100	1.638898E+07	50	1.530204E+07	20	1.544251E+07	5	1.540538E+07	2	1.49918E+07
Dieldrin	200	7219415	100	7409114	50	7168962	20	6853795	5	6658740	2	6844135
Dieldrin [2C]	200	1.499604E+07	100	1.635267E+07	50	1.660045E+07	20	1.64926E+07	5	1.617312E+07	2	1.598161E+07
Endosulfan I	200	8389860	100	9563156	50	7290628	20	8635760	5	9244296	2	9913445
Endosulfan I [2C]	200	1.288761E+07	100	1.424792E+07	50	1.452076E+07	20	1.478132E+07	5	1.531056E+07	2	1.474258E+07
Endosulfan II	200	5721455	100	6356591	50	6082748	20	6035995	5	6208518	2	6450400
Endosulfan II [2C]	200	1.224727E+07	100	1.348148E+07	50	1.374554E+07	20	1.402597E+07	5	1.432674E+07	2	1.477577E+07
Endosulfan sulfate	200	4611410	100	5437530	50	4929424	20	5159370	5	6015180	2	6121100
Endosulfan sulfate [2C]	200	9308250	100	1.130678E+07	50	1.05107E+07	20	1.10693E+07	5	1.24722E+07	2	1.258357E+07
Endrin	200	5139265	100	6175148	50	5464442	20	5583800	5	6061158	2	6524490
Endrin [2C]	200	9825945	100	1.218606E+07	50	1.118684E+07	20	1.169193E+07	5	1.225417E+07	2	1.195731E+07
Endrin aldehyde	200	4900058	100	5229812	50	4993340	20	5030315	5	5411892	2	5767135
Endrin aldehyde [2C]	200	9390355	100	1.018449E+07	50	1.025726E+07	20	1.044749E+07	5	1.084249E+07	2	1.168795E+07
Endrin ketone	200	4783264	100	5887805	50	5257990	20	5674750	5	6167304	2	5845375

FORM VI

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.

Client: Roux Associates

Calibration: YA00016

SDG: 20B0093

Project: 3475.00014000 Lafayette

Instrument: GCECD6

Calibration Date: 01/17/20 08:36

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Endrin ketone [2C]	200	9171435	100	1.166844E+07	50	1.074486E+07	20	1.146215E+07	5	1.275878E+07	2	1.166923E+07
gamma-BHC (Lindane)	200	8764040	100	9189089	50	8473178	20	8205995	5	7977212	2	7669940
gamma-BHC (Lindane) [2C]	200	1.550111E+07	100	1.716389E+07	50	1.666001E+07	20	1.678892E+07	5	1.635375E+07	2	1.624333E+07
gamma-Chlordane	200	7414600	100	8017590	50	7684697	20	7437780	5	7396236	2	7432185
gamma-Chlordane [2C]	200	1.501309E+07	100	1.625891E+07	50	1.621654E+07	20	1.604526E+07	5	1.612113E+07	2	1.631661E+07
Heptachlor	200	6844470	100	7442812	50	6919596	20	6818355	5	6690924	2	6702210
Heptachlor [2C]	200	1.260281E+07	100	1.418642E+07	50	1.370775E+07	20	1.404335E+07	5	1.382446E+07	2	1.373307E+07
Heptachlor epoxide	200	7206330	100	7635610	50	7491112	20	7412191	5	7437908	2	7567380
Heptachlor epoxide [2C]	200	1.308125E+07	100	1.464756E+07	50	1.480937E+07	20	1.508532E+07	5	1.507445E+07	2	1.502211E+07
Methoxychlor	200	4920112	100	5982299	50	5471474	20	5724445	5	6607140	2	6680840
Methoxychlor [2C]	200	3373033	100	4141337	50	3590448	20	3867577	5	4019988	2	3862522
Mirex	200		100		50		20		5		2	
Tetrachloro-m-xylene	240	6353188	200	6614810	160	6514463	120	6460184	80	6708939	50	6275682
Tetrachloro-m-xylene [2C]	240	1.171294E+07	200	1.254871E+07	160	1.244333E+07	120	1.26167E+07	80	1.335639E+07	50	1.278894E+07

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

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YA00016 Instrument: GCECD6

Calibration Date: 01/17/20 08:36

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDD	5540073	4.524006	5.544	1.439932E-02			20	
4,4'-DDD [2C]	1.182261E+07	4.539317	6.5865	2.025372E-02			20	
4,4'-DDE	5829589	14.29272	4.768	4.896408E-02			20	
4,4'-DDE [2C]	1.688651E+07	1.581905	5.687833	2.686132E-02			20	
4,4'-DDT	3614976	8.357784	5.942333	1.031185E-02			20	
4,4'-DDT [2C]	7426936	8.744229	7.096	1.030324E-02			20	
Aldrin	7327631	5.011553	3.693	1.259591E-02			20	
Aldrin [2C]	1.754809E+07	2.688221	4.232833	4.030923E-03			20	
alpha-BHC	9631694	5.342348	2.761	1.934171E-02			20	
alpha-BHC [2C]	1.8416E+07	4.804018	3.097667	2.891565E-02			20	
alpha-Chlordane	7399746	2.980152	4.628833	1.349172E-02			20	
alpha-Chlordane [2C]	1.56799E+07	3.404134	5.406333	1.488156E-02			20	
beta-BHC	3158372	7.873593	3.0845	0.0217154			20	
beta-BHC [2C]	6902984	6.517413	3.514	2.111128E-02			20	
Decachlorobiphenyl	5444627	2.279891	9.349	7.339137E-03			20	
Decachlorobiphenyl [2C]	1.090355E+07	3.631627	11.10867	1.338657E-02			20	
delta-BHC	7125131	7.554508	3.230833	1.354306E-02			20	
delta-BHC [2C]	1.529397E+07	4.577249	3.815	1.965684E-02			20	
Dieldrin	7025694	4.037053	5.085167	7.535184E-03			20	
Dieldrin [2C]	1.609941E+07	3.628776	5.874833	4.069958E-03			20	
Endosulfan I	8839524	10.7127	4.776833	2.459981E-02			20	
Endosulfan I [2C]	1.441512E+07	5.733596	5.474167	1.074987E-02			20	
Endosulfan II	6142618	4.227637	5.6895	0.0236834			20	
Endosulfan II [2C]	1.376713E+07	6.323618	6.6765	8.509577E-03			20	
Endosulfan sulfate	5379002	11.14957	6.991667	1.100986E-02			20	
Endosulfan sulfate [2C]	1.120846E+07	11.01018	7.723	5.525025E-03			20	
Endrin	5824717	8.841455	5.3785	1.609788E-02			20	
Endrin [2C]	1.151704E+07	7.942933	6.328833	9.089129E-03			20	
Endrin aldehyde	5222092	6.210834	6.312667	2.416483E-02			20	
Endrin aldehyde [2C]	1.046834E+07	7.293888	7.245833	4.201172E-03			20	
Endrin ketone	5602748	8.940049	7.416833	1.151693E-02			20	
Endrin ketone [2C]	1.124582E+07	10.70597	8.6405	5.143898E-03			20	

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

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Calibration: YA00016
Instrument: GCECD6
Calibration Date: 01/17/20 08:36

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
gamma-BHC (Lindane)	8379909	6.552449	3.008667	1.085373E-02			20	
gamma-BHC (Lindane) [2C]	1.645183E+07	3.460898	3.428167	1.005355E-02			20	
gamma-Chlordane	7563848	3.260381	4.472167	6.309861E-03			20	
gamma-Chlordane [2C]	1.599526E+07	3.068805	5.2015	1.929476E-02			20	
Heptachlor	6903061	4.033114	3.415167	1.114791E-02			20	
Heptachlor [2C]	1.368298E+07	4.099492	3.875	0			20	
Heptachlor epoxide	7458422	1.992692	4.329667	2.837481E-03			20	
Heptachlor epoxide [2C]	1.462001E+07	5.288564	4.9465	1.015323E-02			20	
Methoxychlor	5897718	11.47774	6.768333	1.492244E-02			20	
Methoxychlor [2C]	3809151	7.416915	8.374166	1.531988E-02			20	
Mirex							20	
Tetrachloro-m-xylene	6487877	2.481714	2.355	2.007992E-02			20	
Tetrachloro-m-xylene [2C]	1.257783E+07	4.235767	2.589	5.544254E-03			20	

FORM VI

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Calibration: YB00024
Instrument: GC Dual E
Calibration Date: 01/20/20 08:04

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
4,4'-DDD	2	1236	5	1167.2	20	1167.4	50	1016	100	1070.74	200	799.49
4,4'-DDD [2C]	2	3768	5	4011.6	20	3811.7	50	3285.56	100	3433.6	200	2535.66
4,4'-DDE	2	2309	5	2216	20	2207.4	50	1913.76	100	2111	200	1624.36
4,4'-DDE [2C]	2	4484	5	4525.2	20	4866.3	50	4637.52	100	5907.08	200	4473.7
4,4'-DDT	2	661	5	730.8	20	873.3	50	811.12	100	917.72	200	666.21
4,4'-DDT [2C]	2	2581	5	2807.6	20	3090.1	50	2862.36	100	3217.62	200	2322.91
Aldrin	2	2582	5	2388.4	20	2263.2	50	1892.88	100	2097.52	200	1696.96
Aldrin [2C]	2	6392	5	5811.2	20	5631.1	50	4834.36	100	5387.98	200	4337.42
alpha-BHC	2	2412	5	2256.8	20	2162.1	50	1821.36	100	2059.66	200	1696.66
alpha-BHC [2C]	2	6051	5	5484.4	20	5615.3	50	4872.12	100	5548.86	200	4576.56
alpha-Chlordane	2	2416	5	2300.8	20	2152.5	50	1800.32	100	1955.58	200	1538.31
alpha-Chlordane [2C]	2	4484	5	4525.2	20	4866.3	50	4637.52	100	5907.08	200	4473.7
beta-BHC	2	1008	5	1061.2	20	1042.2	50	845.32	100	899.62	200	708
beta-BHC [2C]	2	2800	5	2884	20	2574.4	50	2091.48	100	2266.56	200	1832.62
Decachlorobiphenyl	50	2382.36	80	2252.65	120	2247.833	160	2021.537	200	2171.18	240	1557.375
Decachlorobiphenyl [2C]	50	6938.24	80	6640.25	120	6620.133	160	5953.212	200	6377.41	240	4556.858
delta-BHC	2	1788	5	1769.2	20	1740.8	50	1483.72	100	1693.22	200	1366.44
delta-BHC [2C]	2	4768	5	4590.4	20	4625.9	50	4044.48	100	4679.3	200	3756.01
Dieldrin	2	2105	5	2008.8	20	1908.9	50	1638.04	100	1801.88	200	1408.54
Dieldrin [2C]	2	5896	5	5387.2	20	5173.8	50	4423.36	100	4831.2	200	3733.68
Endosulfan I	2	2112	5	2058.8	20	1949.4	50	1635.4	100	1779.28	200	1387.91
Endosulfan I [2C]	2	7424	5	6814.4	20	6417.9	50	5364.08	100	5279.22	200	4169.5
Endosulfan II	2	1792	5	1692	20	1700.9	50	1434.08	100	1524.28	200	1159.27
Endosulfan II [2C]	2	4658	5	4538.8	20	4265.2	50	3612.68	100	3828.48	200	2939.81
Endosulfan sulfate	2	1597	5	1570	20	1538.6	50	1328.6	100	1397.02	200	1019.85
Endosulfan sulfate [2C]	2	5250	5	4974.8	20	4640.2	50	3880.12	100	4044.28	200	2930.7
Endrin	2	1646	5	1582.8	20	1549.9	50	1310.28	100	1462.16	200	1107.99
Endrin [2C]	2	4875	5	4602.4	20	4418.2	50	3757.24	100	4108.28	200	3079.53
Endrin aldehyde	2	1506	5	1484.8	20	1446.6	50	1247.24	100	1330.1	200	995.57
Endrin aldehyde [2C]	2	4836	5	4640.4	20	4227.8	50	3602.44	100	3709.96	200	2735.36
Endrin ketone	2	1559	5	1548.4	20	1504.1	50	1277.68	100	1322.1	200	953.6

FORM VI

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.

SDG: 20B0093

Client: Roux Associates

Project: 3475.00014000 Lafayette

Calibration: YB00024

Instrument: GC Dual E

Calibration Date: 01/20/20 08:04

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Endrin ketone [2C]	2	5029	5	5060	20	4730.5	50	3961.84	100	4011.72	200	2844.02
gamma-BHC (Lindane)	2	2234	5	1964.4	20	1861.8	50	1543.32	100	1719.46	200	1397.79
gamma-BHC (Lindane) [2C]	2	5188	5	4949.2	20	4796.2	50	4072.92	100	4539.36	200	3679.32
gamma-Chlordane	2	2335	5	2139.6	20	2016.7	50	1680.28	100	1824.76	200	1440.67
gamma-Chlordane [2C]	2	7297	5	6130	20	5673.2	50	4506.72	100	4866.44	200	3752.73
Heptachlor	2	1415	5	1594.4	20	1544.1	50	1273.08	100	1392.48	200	982.08
Heptachlor [2C]	2	5778	5	5124	20	4724.3	50	3898.04	100	4264.58	200	3324.45
Heptachlor epoxide	2	2223	5	2048	20	1930.7	50	1599.84	100	1740.84	200	1385.83
Heptachlor epoxide [2C]	2	6050	5	5579.6	20	5168.8	50	4290.96	100	4601.04	200	3584.56
Methoxychlor	2	330	5	375.2	20	477.6	50	465.64	100	522.48	200	371.66
Methoxychlor [2C]	2	995	5	1448.4	20	1652.5	50	1537.08	100	1646.38	200	1161.75
Mirex	2		5		20		50		100		200	
Tetrachloro-m-xylene	50	3214.16	80	3161.475	120	3181.9	160	2823.25	200	3266.63	240	2726.4
Tetrachloro-m-xylene [2C]	50	8815.72	80	8727.05	120	8843.233	160	7836.2	200	9041.3	240	7546.767

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

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Calibration: YB00024 Instrument: GC Dual E

Calibration Date: 01/20/20 08:04

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4,4'-DDD	1076.138	14.53654	7.74	5.126947E-03			20	
4,4'-DDD [2C]	3474.353	15.26883	6.591667	5.876389E-02			20	
4,4'-DDE	2063.587	12.29293	6.76	2.159635E-02			20	
4,4'-DDE [2C]	4815.633	11.51251	5.72	2.304559E-02			20	
4,4'-DDT	776.6917	13.87939	8.286667	6.113085E-02	0.98374		0.99	*
4,4'-DDT [2C]	2813.598	11.64745	7.03	1.301584E-02	0.98319		0.99	*
Aldrin	2153.493	15.12294	5.148333	7.975125E-02			20	
Aldrin [2C]	5399.01	13.4987	4.508334	8.829371E-02			20	
alpha-BHC	2068.097	13.00399	3.8	6.895769E-03			20	
alpha-BHC [2C]	5358.04	10.03531	3.396667	0.1515128			20	
alpha-Chlordane	2027.252	16.17081	6.47	7.957117E-03	0.99170		0.99	*
alpha-Chlordane [2C]	4815.633	11.51251	5.72	2.304559E-02				
beta-BHC	927.39	14.72361	4.296667	0.1209268			20	
beta-BHC [2C]	2408.177	17.21349	3.778333	0.1079646			20	
Decachlorobiphenyl	2105.489	13.9342	12.29167	3.282188E-02			20	
Decachlorobiphenyl [2C]	6181.017	13.9276	10.62167	4.215087E-02			20	
delta-BHC	1640.23	10.58961	4.65	1.642944E-02			20	
delta-BHC [2C]	4410.682	9.2992	3.951667	0.1021849			20	
Dieldrin	1811.86	14.1169	6.996667	7.335128E-02	0.99119		0.99	*
Dieldrin [2C]	4907.54	15.50842	6.096667	8.410715E-02			20	
Endosulfan I	1820.465	15.17269	6.558333	6.390223E-02			20	
Endosulfan I [2C]	5911.517	20.14843	5.755	9.346987E-02				
Endosulfan II	1550.422	14.93992	7.87	1.335717E-02	0.98864		0.99	*
Endosulfan II [2C]	3973.828	16.28108	6.77	1.815745E-02	0.98959		0.99	*
Endosulfan sulfate	1408.512	15.42791	8.983333	5.591734E-02	0.98435		0.99	*
Endosulfan sulfate [2C]	4286.683	19.76481	8.165	6.489293E-02	0.98357		0.99	*
Endrin	1443.188	13.9409	7.5	0	0.98850		0.99	*
Endrin [2C]	4140.108	15.66675	6.428333	6.400863E-02	0.98745		0.99	*
Endrin aldehyde	1335.052	14.48851	8.48	9.359097E-03	0.98713		0.99	*
Endrin aldehyde [2C]	3958.66	19.54149	7.438333	5.316937E-02				
Endrin ketone	1360.813	17.05213	9.961667	3.799086E-02	0.98280		0.99	*
Endrin ketone [2C]	4272.847	19.87869	8.63	2.468507E-02	0.98044		0.99	*

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

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Calibration: YB00024
Instrument: GC Dual E
Calibration Date: 01/20/20 08:04

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
gamma-BHC (Lindane)	1786.795	16.8327	4.2	2.495612E-02			20	
gamma-BHC (Lindane) [2C]	4537.5	12.51311	3.69	9.891013E-03			20	
gamma-Chlordane	1906.168	16.99852	6.241666	6.182525E-02			20	
gamma-Chlordane [2C]	5371.015	23.54663	5.403333	9.694265E-02				
Heptachlor	1366.857	16.12896	4.723333	0.1099999	0.98047		0.99	*
Heptachlor [2C]	4518.895	19.47008	4.176667	0.1241045			20	
Heptachlor epoxide	1821.368	16.83097	5.96	2.352917E-02	0.99259		0.99	*
Heptachlor epoxide [2C]	4879.16	18.43371	5.238333	7.793658E-02				
Methoxychlor	423.7633	17.74153	9.61	0.0202514	0.98116		0.99	*
Methoxychlor [2C]	1406.852	19.23384	7.896667	6.384313E-02			20	
Mirex							20	
Tetrachloro-m-xylene	3062.303	7.431123	3.2	2.217517E-02			20	
Tetrachloro-m-xylene [2C]	8468.378	7.289536	2.926667	0.1778299			20	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601467.D
Acq On : 17 Jan 2020 2:06 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL1
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 17 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 06:11:57 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 06:11:13 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

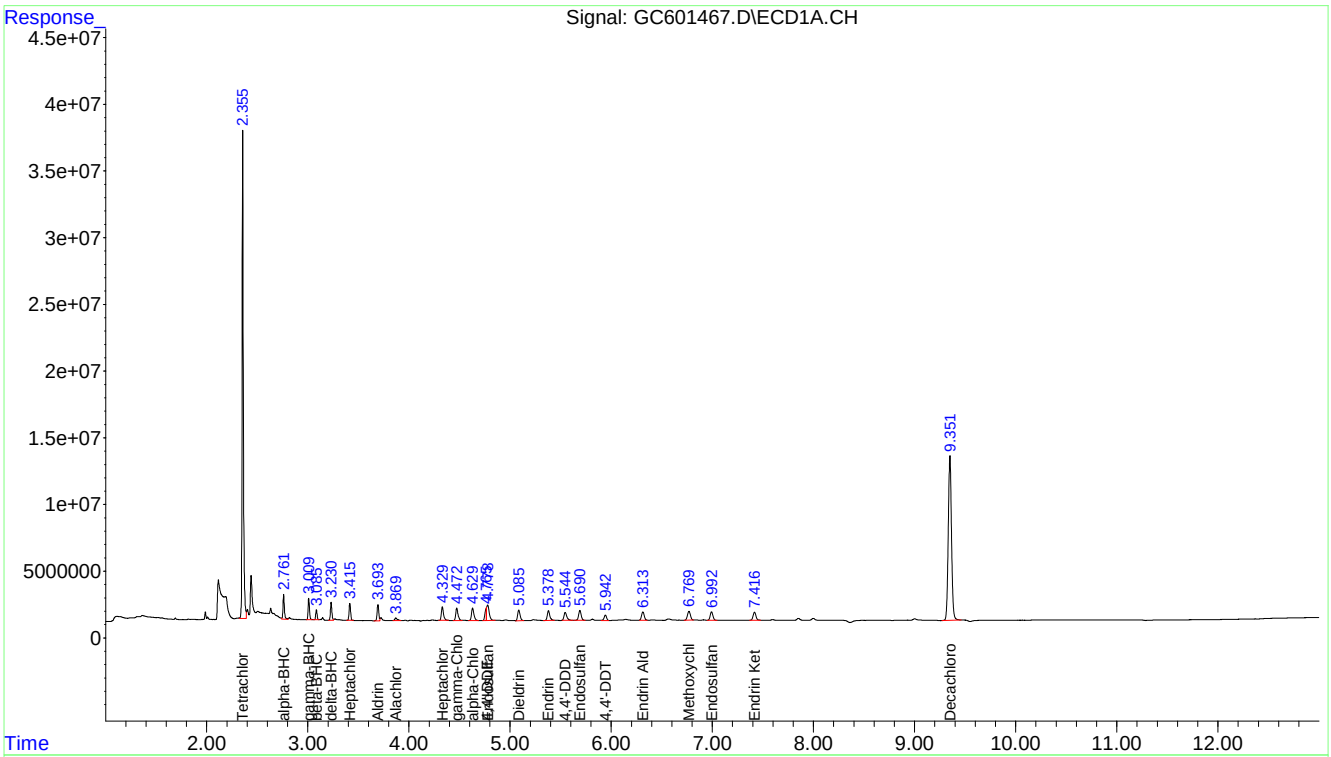
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.355	313784093	49.233	ng/mLm
2)	alpha-BHC	2.761	17997573	1.883	ng/mLm
3)	gamma-BHC (Lindane)	3.009	15339880	1.834	ng/mLm
4)	beta-BHC	3.085	6808811	2.140	ng/mL
5)	delta-BHC	3.230	13197267	1.861	ng/mLm
6)	Heptachlor	3.415	13404424	1.915	ng/mL
7)	Aldrin	3.693	13848687	1.869	ng/mLm
8)	Alachlor	3.869	3204280	2.613	ng/mLm
9)	Heptachlor Epoxide	4.330	15134756	1.980	ng/mL
10)	gamma-Chlordane	4.472	14864371	1.934	ng/mLm
11)	alpha-Chlordane	4.629	15436400	2.089	ng/mL
12)	Endosulfan I	4.778	19826886	2.335	ng/mLm
13)	4,4'-DDE	4.765	8782771	1.415	ng/mLm
14)	Dieldrin	5.085	13688265	1.968	ng/mLm
15)	Endrin	5.379	13048979	2.267	ng/mL
16)	4,4'-DDD	5.544	11681097	2.144	ng/mLm
17)	Endosulfan II	5.690	12900795	2.128	ng/mL
18)	4,4'-DDT	5.942	7247072	2.078	ng/mLm
19)	Endrin Aldehyde	6.313	11534266	2.222	ng/mLm
20)	Methoxychlor	6.769	13361677	2.649	ng/mL
21)	Endosulfan Sulfate	6.992	12242200	2.298	ng/mLm
22)	Endrin Ketone	7.417	11690750	2.085	ng/mL
23)	Decachlorobiphenyl	9.350	274908254	51.458	ng/mL
25)	Tetrachloro-m-xylene #2	2.589	639446988	51.212	ng/mL
26)	alpha-BHC #2	3.097	34355467	1.872	ng/mLm
27)	gamma-BHC (lLindane) #2	3.428	32486646	1.987	ng/mLm
28)	beta-BHC #2	3.514	14388756	2.094	ng/mLm
29)	delta-BHC #2	3.815	29983593	1.965	ng/mL
30)	Heptachlor #2	3.875	27466140	2.045	ng/mL
31)	Aldrin #2	4.232	34524386	1.965	ng/mLm
32)	Alachlor #2	4.138	5238737	2.583	ng/mLm
33)	Heptachlor Epoxide #2	4.946	30044214	2.065	ng/mL
34)	gamma-Chlordane #2	5.201	32633221	2.051	ng/mLm
35)	alpha-Chlordane #2	5.407	32018055	2.049	ng/mLm
36)	Endosulfan I #2	5.474	29485159	2.062	ng/mLm
37)	4,4'-DDE #2	5.688	33457854	2.000	ng/mLm
38)	Dieldrin #2	5.874	31963211	2.011	ng/mL
39)	Endrin #2	6.328	23914623	2.081	ng/mLm
40)	4.4'-DDD #2	6.587	24293177	2.071	ng/mLm
41)	Endosulfan II #2	6.676	29551527	2.194	ng/mLm
42)	4,4'-DDT #2	7.096	15860248	1.868	ng/mLm
43)	Endrin Aldehyde #2	7.245	23375886	2.274	ng/mLm
44)	Methoxychlor #2	8.375	7725043	2.079	ng/mLm
45)	Endosulfan Sulfate #2	7.723	25167141	2.281	ng/mLm
46)	Endrin Ketone #2	8.640	23338461	2.046	ng/mLm
47)	Decachlorobiphenyl #2	11.109	561740648	52.625	ng/mL

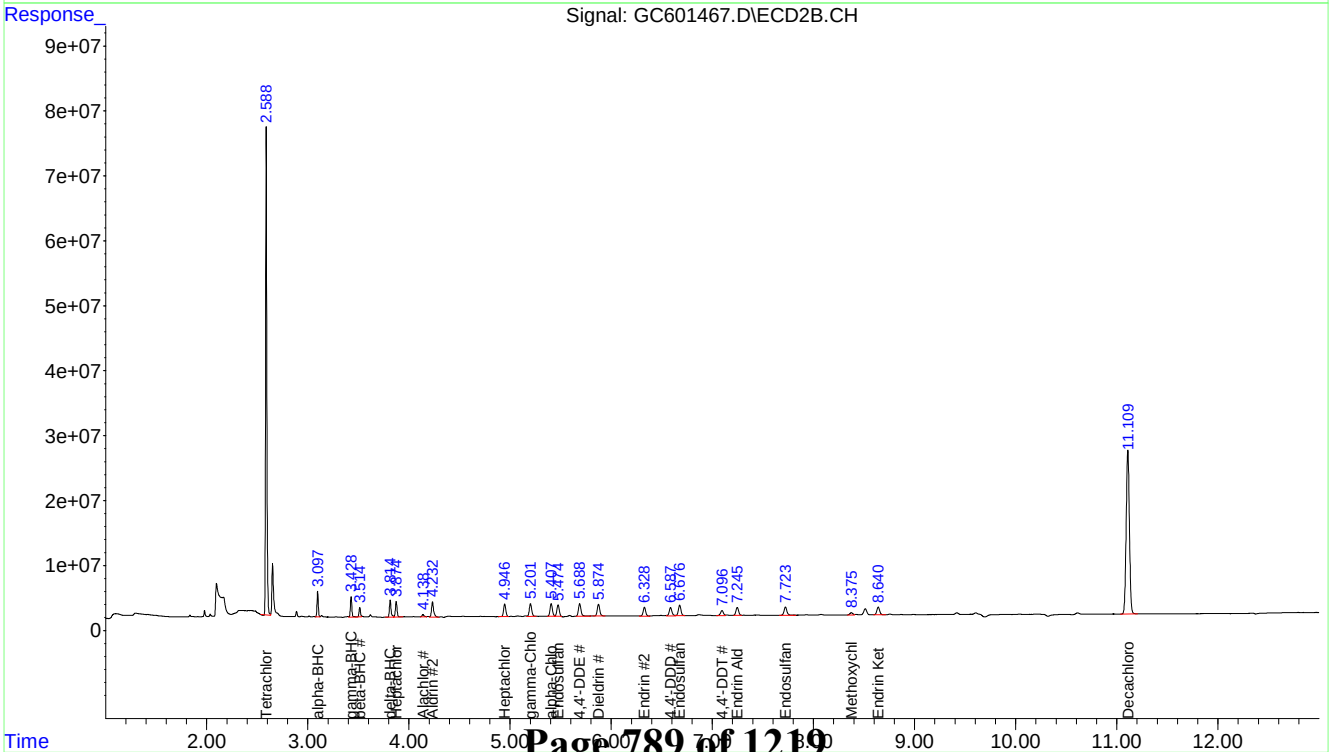
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601467.D
Acq On : 17 Jan 2020 2:06 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL1
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 17 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 06:11:57 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 06:11:13 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601468.D
Acq On : 17 Jan 2020 2:22 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL2
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 18 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 05:52:46 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 05:52:23 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

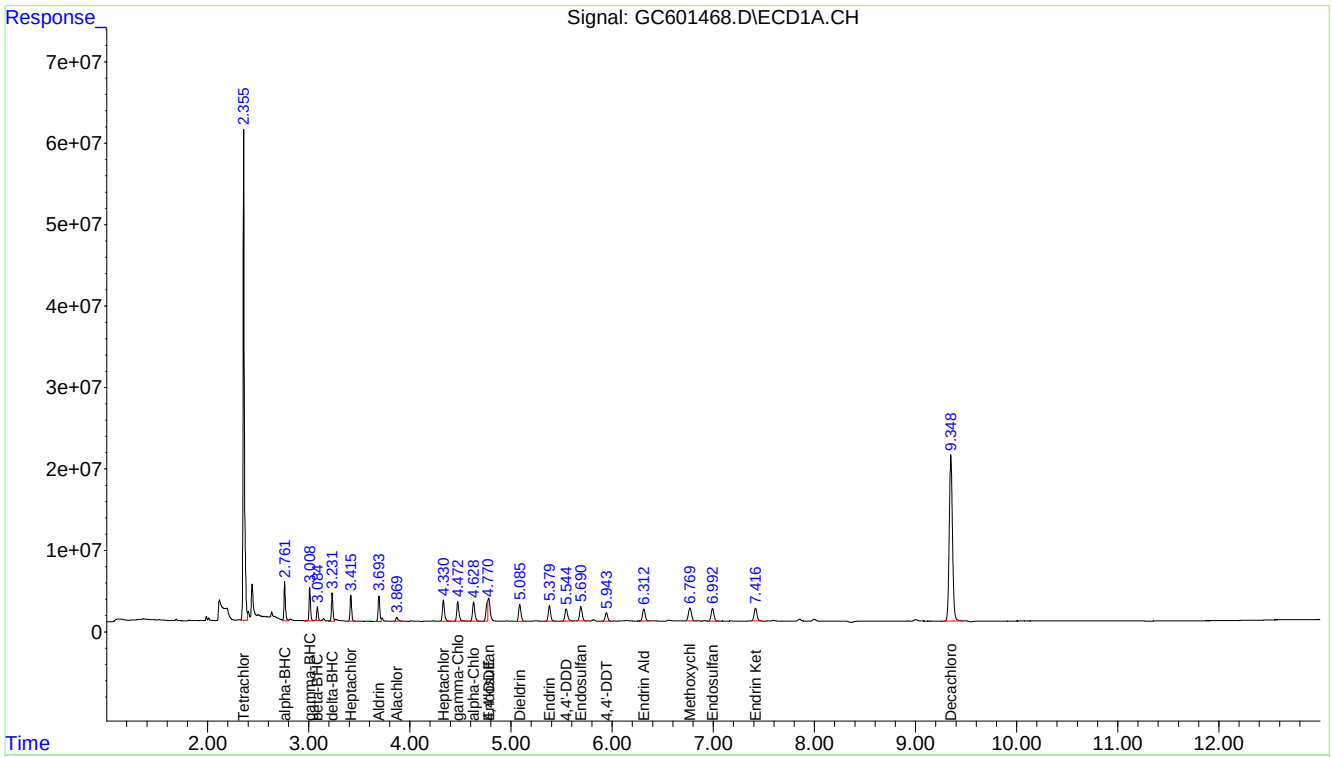
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.355	536715140	81.687	ng/mLm
2)	alpha-BHC	2.761	46586459	4.975	ng/mLm
3)	gamma-BHC (Lindane)	3.008	39886060	4.847	ng/mLm
4)	beta-BHC	3.084	16916951	5.210	ng/mLm
5)	delta-BHC	3.231	34560876	4.806	ng/mLm
6)	Heptachlor	3.416	33454624	4.995	ng/mL
7)	Aldrin	3.693	36255179	4.806	ng/mLm
8)	Alachlor	3.870	7339120	6.467	ng/mL
9)	Heptachlor Epoxide	4.330	37189546	4.829	ng/mL
10)	gamma-Chlordane	4.472	36981174	4.840	ng/mLm
11)	alpha-Chlordane	4.629	37024888	4.984	ng/mL
12)	Endosulfan I	4.778	46221478	5.731	ng/mLm
13)	4,4'-DDE	4.770	29282444	4.465	ng/mLm
14)	Dieldrin	5.085	33293704	4.817	ng/mL
15)	Endrin	5.379	30305789	5.224	ng/mL
16)	4,4'-DDD	5.544	27922385	5.145	ng/mL
17)	Endosulfan II	5.690	31042592	5.173	ng/mL
18)	4,4'-DDT	5.944	17856153	5.288	ng/mL
19)	Endrin Aldehyde	6.313	27059464	5.183	ng/mL
20)	Methoxychlor	6.769	33035703	9.314	ng/mL
21)	Endosulfan Sulfate	6.992	30075903	5.521	ng/mLm
22)	Endrin Ketone	7.418	30836522	5.303	ng/mL
23)	Decachlorobiphenyl	9.349	453723749	82.360	ng/mL
25)	Tetrachloro-m-xylene #2	2.589	1068510532	81.985	ng/mL
26)	alpha-BHC #2	3.097	90930785	5.006	ng/mLm
27)	gamma-BHC (lLindane) #2	3.428	81768760	4.958	ng/mLm
28)	beta-BHC #2	3.514	36153432	5.295	ng/mLm
29)	delta-BHC #2	3.815	77026918	5.014	ng/mL
30)	Heptachlor #2	3.875	69122310	5.289	ng/mL
31)	Aldrin #2	4.233	85543164	4.863	ng/mLm
32)	Alachlor #2	4.137	11905539	6.196	ng/mLm
33)	Heptachlor Epoxide #2	4.947	75372224	5.189	ng/mL
34)	gamma-Chlordane #2	5.201	80605662	5.083	ng/mLm
35)	alpha-Chlordane #2	5.406	80472207	5.111	ng/mL
36)	Endosulfan I #2	5.474	76552817	5.345	ng/mL
37)	4,4'-DDE #2	5.687	85637470	5.178	ng/mLm
38)	Dieldrin #2	5.875	80865616	5.138	ng/mL
39)	Endrin #2	6.329	61270872	5.310	ng/mL
40)	4.4'-DDD #2	6.587	60601501	5.183	ng/mL
41)	Endosulfan II #2	6.676	71633699	5.505	ng/mL
42)	4,4'-DDT #2	7.095	38620252	4.568	ng/mLm
43)	Endrin Aldehyde #2	7.246	54212450	5.296	ng/mL
44)	Methoxychlor #2	8.372	20099944	5.651	ng/mLm
45)	Endosulfan Sulfate #2	7.723	62360993	5.613	ng/mL
46)	Endrin Ketone #2	8.641	63793920	5.415	ng/mL
47)	Decachlorobiphenyl #2	11.108	921481748	83.908	ng/mL

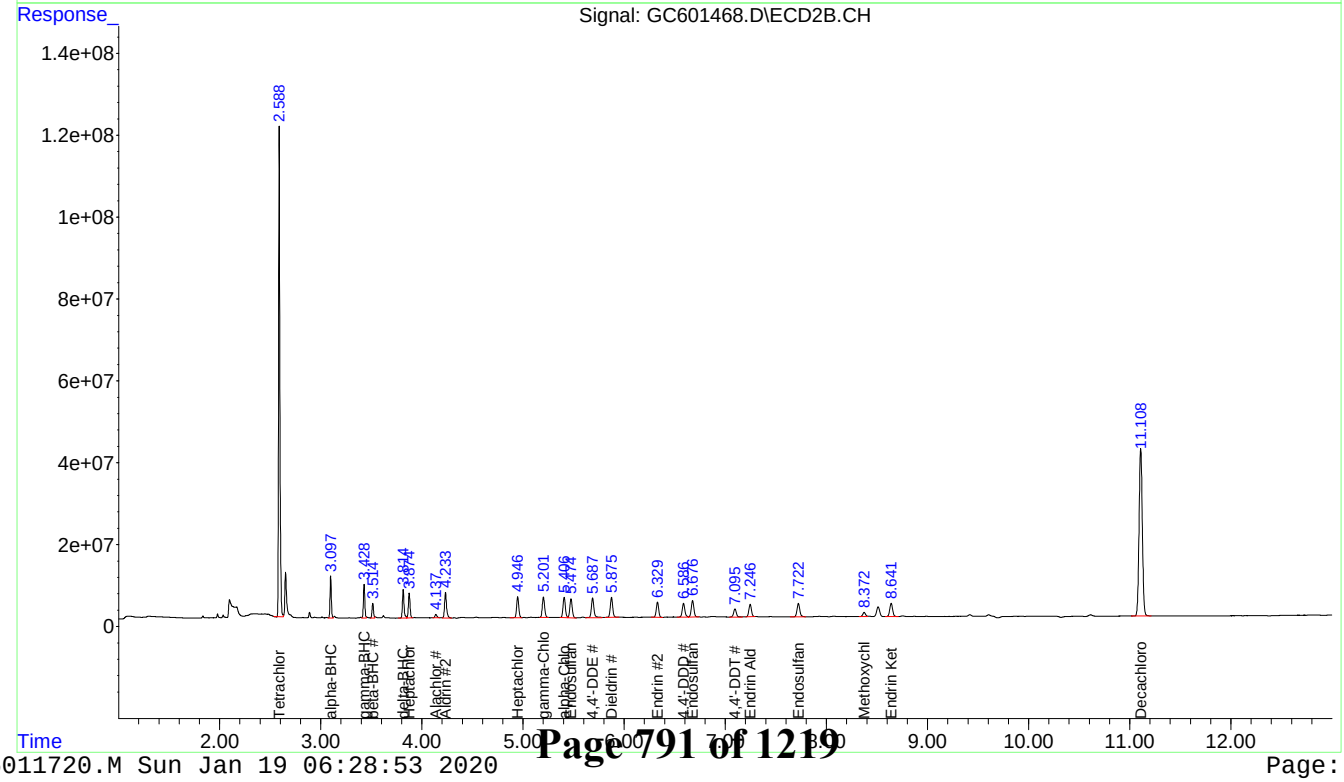
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601468.D
Acq On : 17 Jan 2020 2:22 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL2
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 18 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 05:52:46 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 05:52:23 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601469.D
Acq On : 17 Jan 2020 2:39 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL3
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 19 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 06:03:17 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 06:03:04 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

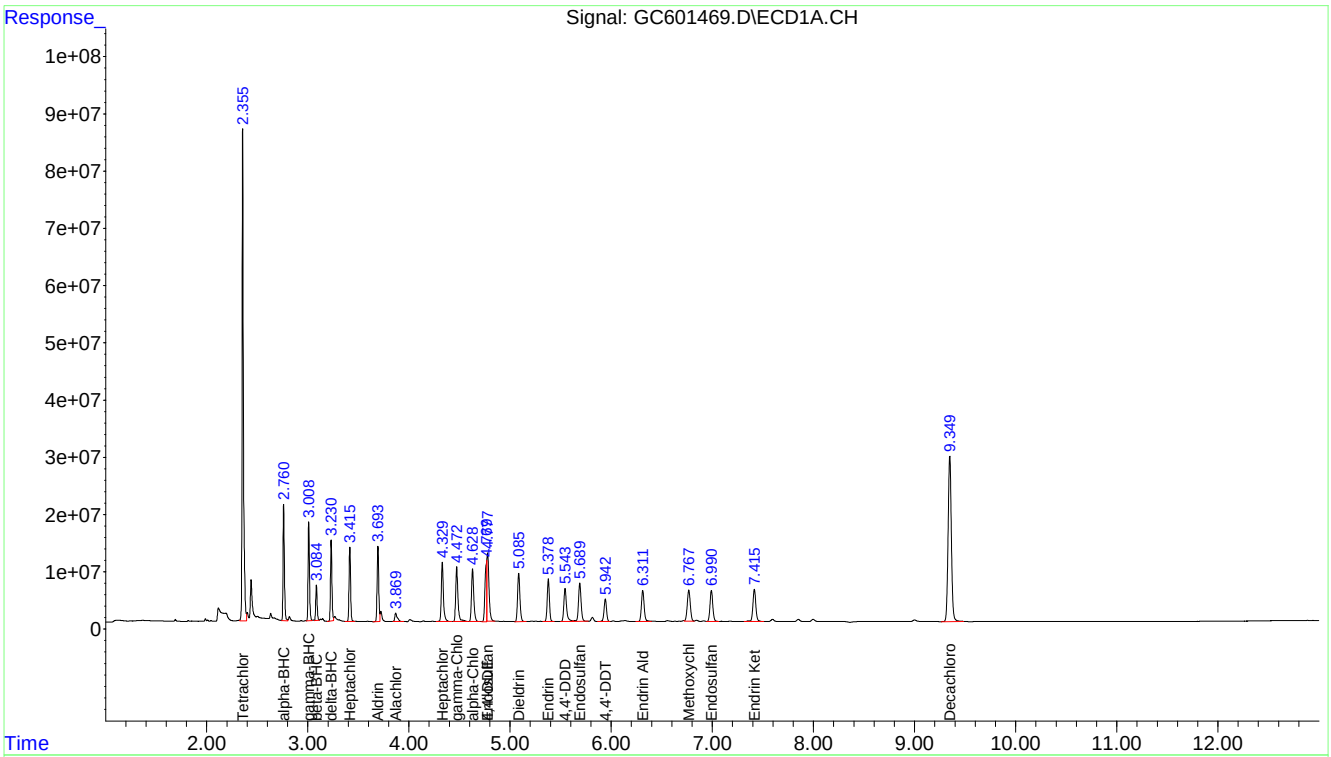
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	775221966	119.682 ng/mLm
2)	alpha-BHC	2.761	186788604	19.632 ng/mL
3)	gamma-BHC (Lindane)	3.009	164119919	19.774 ng/mL
4)	beta-BHC	3.085	59041581	18.310 ng/mL
5)	delta-BHC	3.231	136941862	19.083 ng/mL
6)	Heptachlor	3.415	136367073	19.915 ng/mL
7)	Aldrin	3.693	146185880	19.499 ng/mL
8)	Alachlor	3.869	25786398	21.789 ng/mL
9)	Heptachlor Epoxide	4.329	148243840	19.380 ng/mL
10)	gamma-Chlordane	4.472	148755616	19.444 ng/mL
11)	alpha-Chlordane	4.629	143169096	19.291 ng/mL
12)	Endosulfan I	4.777	172715246	20.808 ng/mLm
13)	4,4'-DDE	4.769	124007420	19.321 ng/mLm
14)	Dieldrin	5.085	137075888	19.746 ng/mL
15)	Endrin	5.378	111676045	19.219 ng/mL
16)	4,4'-DDD	5.544	107351354	19.728 ng/mL
17)	Endosulfan II	5.689	120719858	20.032 ng/mL
18)	4,4'-DDT	5.942	66638409	19.260 ng/mL
19)	Endrin Aldehyde	6.312	100606301	19.330 ng/mL
20)	Methoxychlor	6.767	114488898	26.173 ng/mLm
21)	Endosulfan Sulfate	6.991	103187400	19.024 ng/mL
22)	Endrin Ketone	7.416	113495024	19.843 ng/mL
23)	Decachlorobiphenyl	9.349	645914578	118.485 ng/mL
25)	Tetrachloro-m-xylene #2	2.589	1514003771	117.915 ng/mL
26)	alpha-BHC #2	3.098	382399680	20.921 ng/mL
27)	gamma-BHC (lLindane) #2	3.428	335778493	20.372 ng/mL
28)	beta-BHC #2	3.514	142470031	20.737 ng/mL
29)	delta-BHC #2	3.815	308850084	20.065 ng/mL
30)	Heptachlor #2	3.875	280866998	21.136 ng/mL
31)	Aldrin #2	4.233	359912057	20.439 ng/mL
32)	Alachlor #2	4.137	42867819	21.499 ng/mLm
33)	Heptachlor Epoxide #2	4.946	301706400	20.686 ng/mL
34)	gamma-Chlordane #2	5.201	320905254	20.121 ng/mL
35)	alpha-Chlordane #2	5.406	316117808	20.145 ng/mL
36)	Endosulfan I #2	5.474	295626304	20.670 ng/mL
37)	4,4'-DDE #2	5.688	333683925	19.989 ng/mL
38)	Dieldrin #2	5.875	329851876	20.797 ng/mL
39)	Endrin #2	6.329	233838480	20.160 ng/mL
40)	4.4'-DDD #2	6.586	238186301	20.280 ng/mL
41)	Endosulfan II #2	6.677	280519339	21.124 ng/mL
42)	4,4'-DDT #2	7.096	138674522	16.574 ng/mLm
43)	Endrin Aldehyde #2	7.246	208949667	20.317 ng/mLm
44)	Methoxychlor #2	8.374	77351546	21.172 ng/mL
45)	Endosulfan Sulfate #2	7.723	221385920	19.801 ng/mL
46)	Endrin Ketone #2	8.641	229242864	19.581 ng/mL
47)	Decachlorobiphenyl #2	11.108	1295190575	118.782 ng/mL

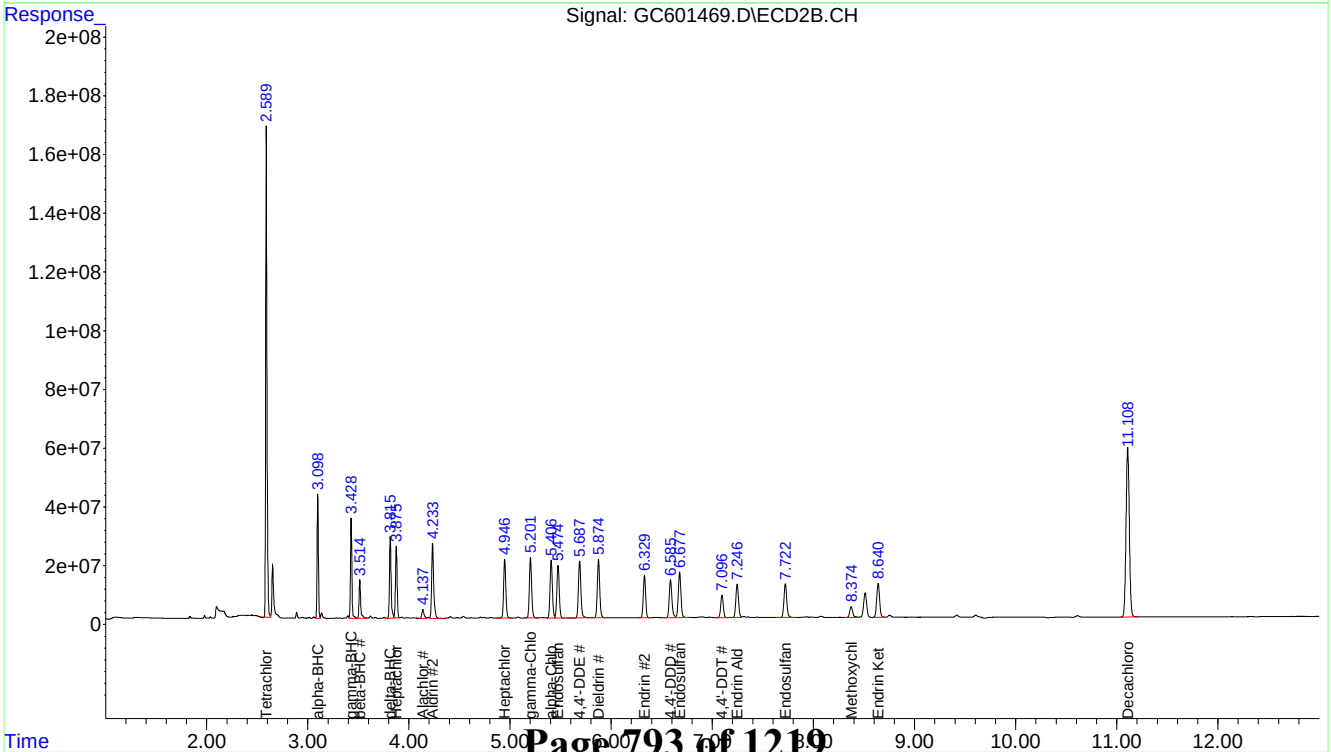
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601469.D
Acq On : 17 Jan 2020 2:39 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL3
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 19 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 06:03:17 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 06:03:04 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601470.D
Acq On : 17 Jan 2020 2:56 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL4
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 20 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 05:36:54 2020
Quant Method : C:\msdchem\PS6121619.M
Quant Title : Pesticides 8081/608
QLast Update : Thu Dec 19 07:19:53 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

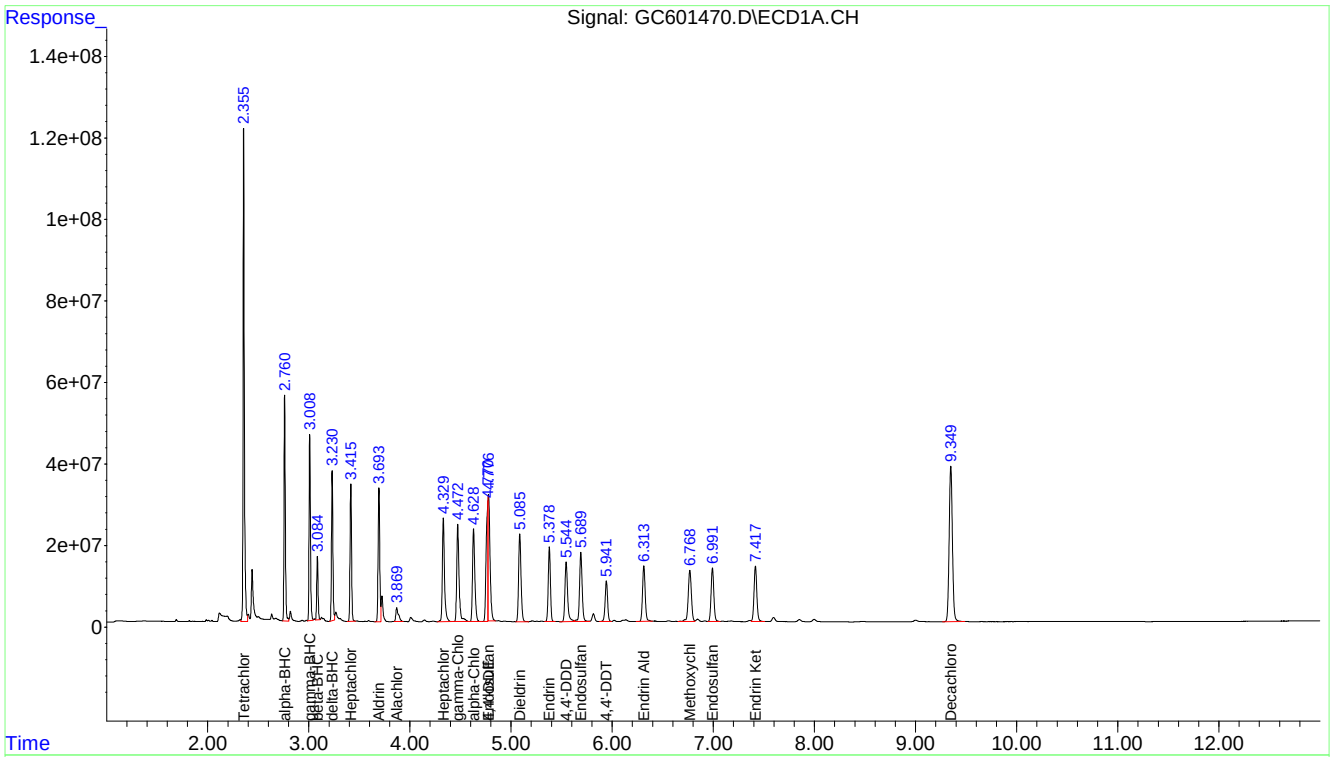
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	1042314143	149.913 ng/mLm
2)	alpha-BHC	2.761	489125880	51.800 ng/mL
3)	gamma-BHC (Lindane)	3.008	423658930	51.544 ng/mL
4)	beta-BHC	3.084	143744641	42.006 ng/mL
5)	delta-BHC	3.231	353391691	46.522 ng/mL
6)	Heptachlor	3.415	345979832	55.180 ng/mL
7)	Aldrin	3.693	369082922	46.217 ng/mLm
8)	Alachlor	3.869	62071363	62.531 ng/mLm
9)	Heptachlor Epoxide	4.329	374555660	47.877 ng/mL
10)	gamma-Chlordane	4.472	384234848	49.155 ng/mL
11)	alpha-Chlordane	4.628	363446208	47.108 ng/mL
12)	Endosulfan I	4.776	364531354	46.928 ng/mLm
13)	4,4'-DDE	4.770	336357959	45.575 ng/mLm
14)	Dieldrin	5.085	358448084	50.541 ng/mL
15)	Endrin	5.379	273222104	44.684 ng/mL
16)	4,4'-DDD	5.544	268855450	49.144 ng/mL
17)	Endosulfan II	5.689	304137381	50.941 ng/mL
18)	4,4'-DDT	5.942	167535912	51.355 ng/mL
19)	Endrin Aldehyde	6.313	249667036	46.959 ng/mL
20)	Methoxychlor	6.768	273573684	163.812 ng/mL
21)	Endosulfan Sulfate	6.992	246471160	42.381 ng/mL
22)	Endrin Ketone	7.417	262899543	42.068 ng/mL
23)	Decachlorobiphenyl	9.349	855871815	149.401 ng/mL
25)	Tetrachloro-m-xylene #2	2.589	1990932789	142.566 ng/mL
26)	alpha-BHC #2	3.098	945753419	51.521 ng/mL
27)	gamma-BHC (lLindane) #2	3.428	833000482	49.209 ng/mL
28)	beta-BHC #2	3.514	343113718	52.165 ng/mL
29)	delta-BHC #2	3.815	765102140	47.724 ng/mL
30)	Heptachlor #2	3.875	685387636	53.043 ng/mL
31)	Aldrin #2	4.233	906952023	50.632 ng/mL
32)	Alachlor #2	4.137	101497401	55.812 ng/mL
33)	Heptachlor Epoxide #2	4.946	740468740	49.275 ng/mL
34)	gamma-Chlordane #2	5.202	810826909	50.142 ng/mL
35)	alpha-Chlordane #2	5.406	789213809	48.469 ng/mL
36)	Endosulfan I #2	5.474	726037903	49.753 ng/mL
37)	4,4'-DDE #2	5.688	863720395	52.650 ng/mL
38)	Dieldrin #2	5.875	830022568	52.350 ng/mL
39)	Endrin #2	6.329	559341984	45.787 ng/mL
40)	4.4'-DDD #2	6.587	588637405	49.067 ng/mL
41)	Endosulfan II #2	6.677	687277243	54.018 ng/mL
42)	4,4'-DDT #2	7.096	339100156	43.602 ng/mL
43)	Endrin Aldehyde #2	7.246	512863115	49.149 ng/mLm
44)	Methoxychlor #2	8.375	179522373	50.393 ng/mL
45)	Endosulfan Sulfate #2	7.723	525534819	44.866 ng/mL
46)	Endrin Ketone #2	8.641	537243134	41.983 ng/mL
47)	Decachlorobiphenyl #2	11.109	1707807402	149.336 ng/mL

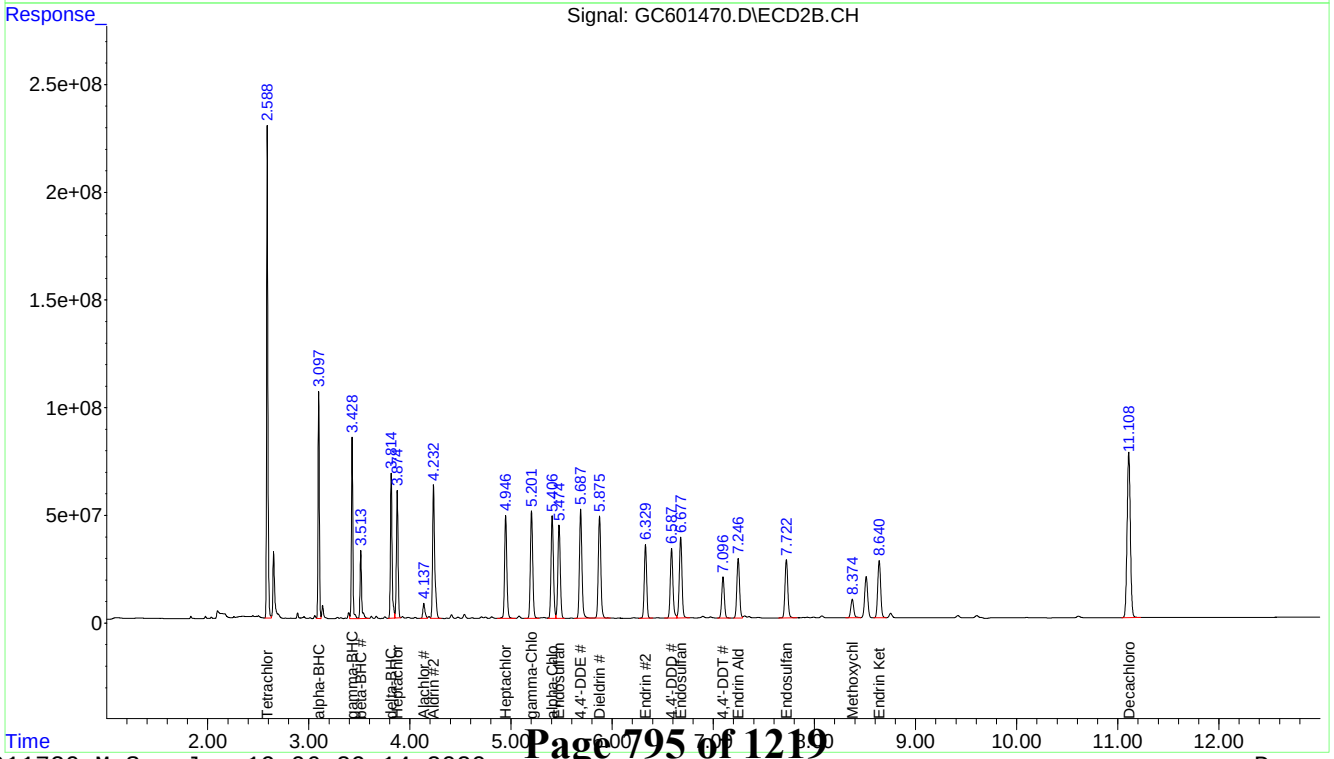
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601470.D
Acq On : 17 Jan 2020 2:56 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL4
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 20 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 05:36:54 2020
Quant Method : C:\msdchem\PS6121619.M
Quant Title : Pesticides 8081/608
QLast Update : Thu Dec 19 07:19:53 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601471.D
Acq On : 17 Jan 2020 3:13 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL5
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 21 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 05:43:01 2020
Quant Method : C:\msdchem\PS6121619.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 05:42:17 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

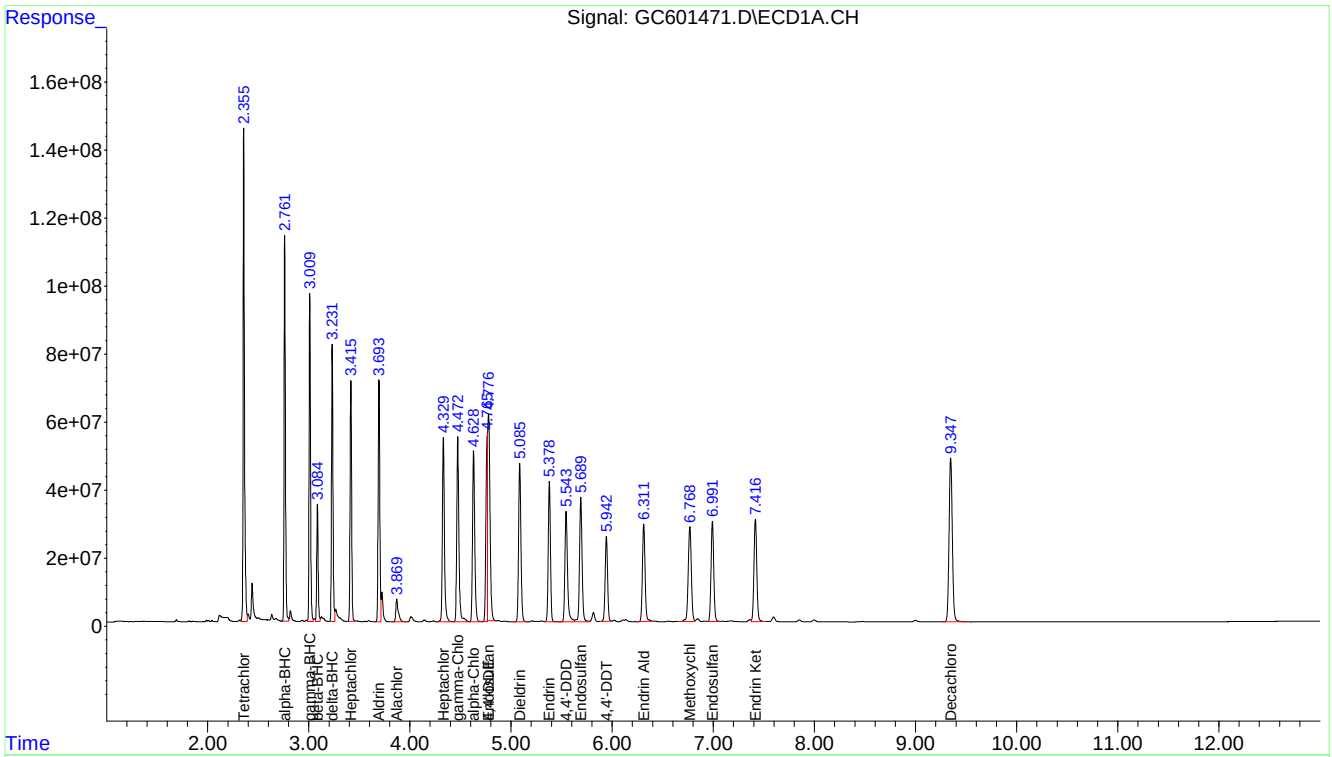
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	1322961626	193.445 ng/mLm
2)	alpha-BHC	2.761	1042463784	111.394 ng/mL
3)	gamma-BHC (Lindane)	3.009	918908877	112.559 ng/mL
4)	beta-BHC	3.085	336130934	100.602 ng/mL
5)	delta-BHC	3.231	814623316	109.140 ng/mL
6)	Heptachlor	3.415	744281126	117.475 ng/mL
7)	Aldrin	3.693	799909711	103.093 ng/mL
8)	Alachlor	3.869	111432276	107.030 ng/mL
9)	Heptachlor Epoxide	4.330	763560980	98.635 ng/mL
10)	gamma-Chlordane	4.472	801758975	103.335 ng/mL
11)	alpha-Chlordane	4.629	760452253	100.314 ng/mL
12)	Endosulfan I	4.776	956315638	125.632 ng/mLm
13)	4,4'-DDE	4.765	542741762	76.114 ng/mLm
14)	Dieldrin	5.085	740911386	105.634 ng/mL
15)	Endrin	5.378	617514774	103.698 ng/mL
16)	4,4'-DDD	5.544	582300072	107.904 ng/mL
17)	Endosulfan II	5.689	635659120	106.390 ng/mL
18)	4,4'-DDT	5.942	416586597	127.874 ng/mL
19)	Endrin Aldehyde	6.312	522981201	98.530 ng/mL
20)	Methoxychlor	6.768	598229879	261.159 ng/mL
21)	Endosulfan Sulfate	6.991	543753029	95.452 ng/mL
22)	Endrin Ketone	7.416	588780473	97.480 ng/mL
23)	Decachlorobiphenyl	9.348	1083203714	193.025 ng/mL
25)	Tetrachloro-m-xylene #2	2.589	2509741129	184.819 ng/mL
26)	alpha-BHC #2	3.098	1942819543	107.601 ng/mL
27)	gamma-BHC (lLindane) #2	3.429	1716388991	102.779 ng/mL
28)	beta-BHC #2	3.514	697804402	107.702 ng/mL
29)	delta-BHC #2	3.815	1638898240	103.657 ng/mL
30)	Heptachlor #2	3.875	1418641948	110.199 ng/mL
31)	Aldrin #2	4.233	1773742936	100.319 ng/mL
32)	Alachlor #2	4.137	191110687	102.856 ng/mL
33)	Heptachlor Epoxide #2	4.947	1464756436	99.133 ng/mL
34)	gamma-Chlordane #2	5.202	1625890682	102.067 ng/mL
35)	alpha-Chlordane #2	5.406	1576001324	98.384 ng/mL
36)	Endosulfan I #2	5.474	1424791545	98.799 ng/mL
37)	4,4'-DDE #2	5.687	1690417711	103.618 ng/mL
38)	Dieldrin #2	5.875	1635266945	104.195 ng/mL
39)	Endrin #2	6.329	1218606288	102.616 ng/mL
40)	4.4'-DDD #2	6.586	1220736992	103.812 ng/mL
41)	Endosulfan II #2	6.676	1348148364	105.294 ng/mL
42)	4,4'-DDT #2	7.097	832078492	109.833 ng/mL
43)	Endrin Aldehyde #2	7.246	1018448734	97.731 ng/mL
44)	Methoxychlor #2	8.375	414133701	117.279 ng/mL
45)	Endosulfan Sulfate #2	7.723	1130678256	98.298 ng/mL
46)	Endrin Ketone #2	8.640	1166844425	94.747 ng/mL
47)	Decachlorobiphenyl #2	11.109	2150875744	192.276 ng/mL

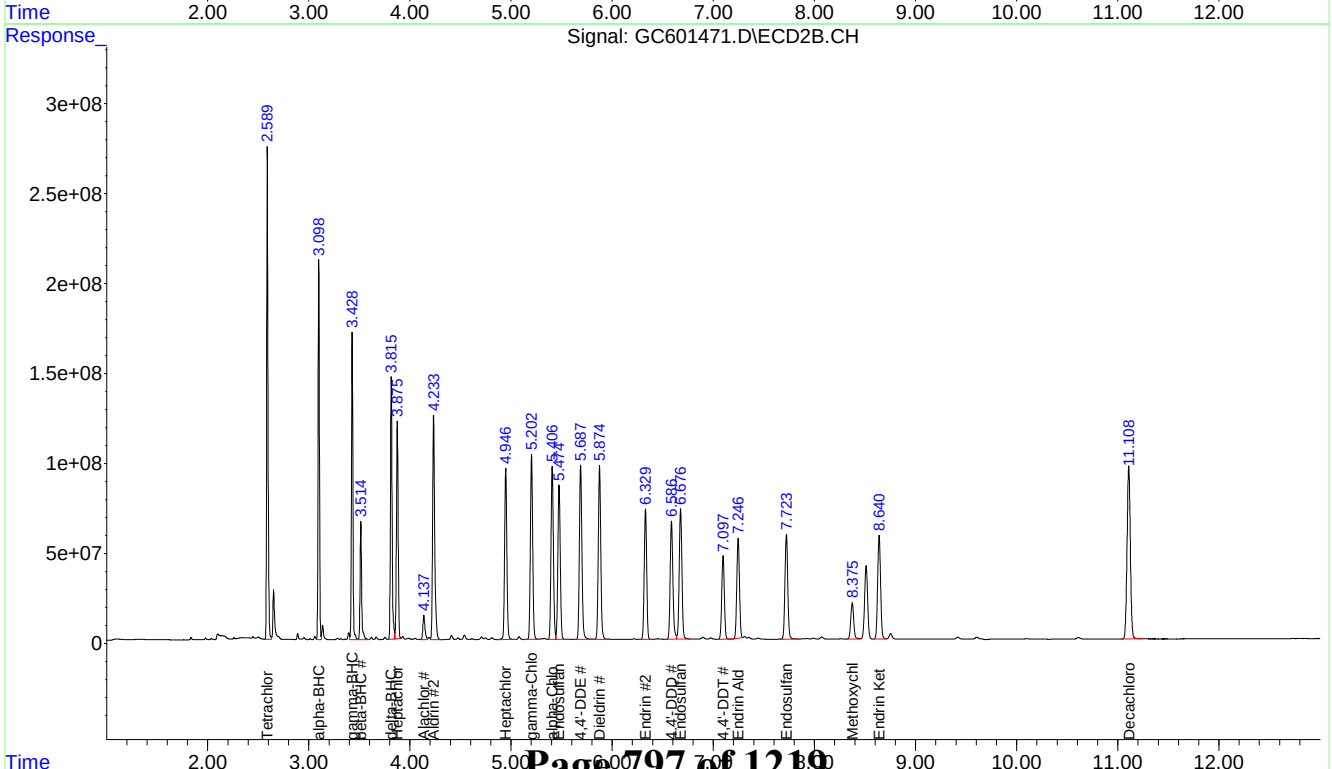
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601471.D
Acq On : 17 Jan 2020 3:13 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL5
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 21 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 05:43:01 2020
Quant Method : C:\msdchem\PS6121619.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 05:42:17 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601472.D
Acq On : 17 Jan 2020 3:29 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL6
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 22 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 05:49:11 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 05:48:54 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

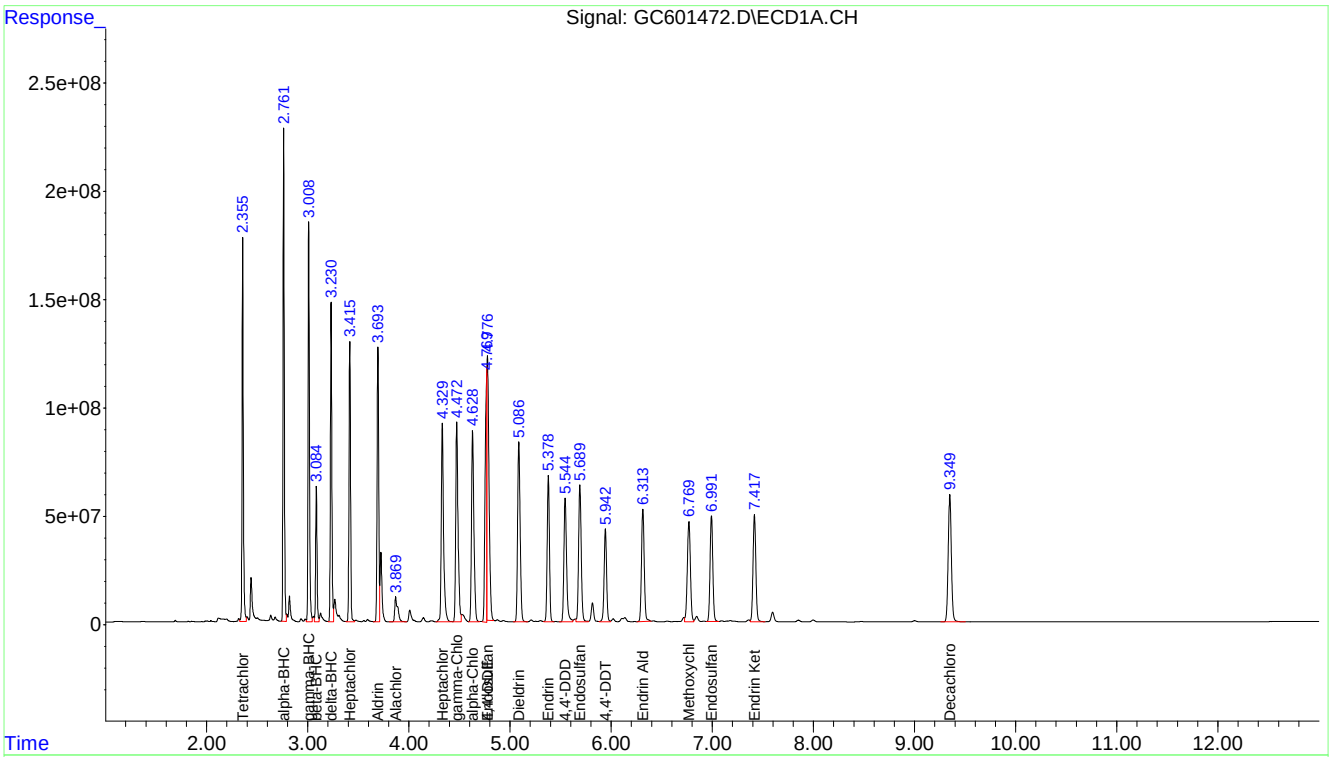
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	1524765027	226.387 ng/mLm
2)	alpha-BHC	2.761	1985499503	211.202 ng/mL
3)	gamma-BHC (Lindane)	3.009	1752808004	213.125 ng/mL
4)	beta-BHC	3.084	594831196	179.017 ng/mL
5)	delta-BHC	3.231	1435762313	193.874 ng/mL
6)	Heptachlor	3.415	1368894192	208.594 ng/mL
7)	Aldrin	3.693	1420070527	184.307 ng/mL
8)	Alachlor	3.869	234106191	217.258 ng/mL
9)	Heptachlor Epoxide	4.330	1441265930	186.177 ng/mL
10)	gamma-Chlordane	4.473	1482919713	191.818 ng/mL
11)	alpha-Chlordane	4.629	1448679955	192.518 ng/mL
12)	Endosulfan I	4.776	1677971989	212.549 ng/mLm
13)	4,4'-DDE	4.769	1274942595	189.615 ng/mLm
14)	Dieldrin	5.086	1443883096	207.118 ng/mL
15)	Endrin	5.378	1027853293	173.059 ng/mL
16)	4,4'-DDD	5.544	1049545958	192.835 ng/mL
17)	Endosulfan II	5.690	1144290548	190.128 ng/mL
18)	4,4'-DDT	5.942	729316698	217.290 ng/mL
19)	Endrin Aldehyde	6.313	980011494	185.962 ng/mL
20)	Methoxychlor	6.769	984022282	327.984 ng/mL
21)	Endosulfan Sulfate	6.992	922281860	164.371 ng/mL
22)	Endrin Ketone	7.417	956652691	159.929 ng/mL
23)	Decachlorobiphenyl	9.349	1284050189	230.468 ng/mL
25)	Tetrachloro-m-xylene #2	2.589	2811104686	210.452 ng/mL
26)	alpha-BHC #2	3.098	3533773549	193.887 ng/mL
27)	gamma-BHC (lLindane) #2	3.428	3100221249	186.689 ng/mL
28)	beta-BHC #2	3.514	1205803969	177.969 ng/mL
29)	delta-BHC #2	3.815	2846623712	181.406 ng/mL
30)	Heptachlor #2	3.875	2520562551	193.539 ng/mL
31)	Aldrin #2	4.233	3409129105	193.705 ng/mL
32)	Alachlor #2	4.138	347886345	184.569 ng/mL
33)	Heptachlor Epoxide #2	4.947	2616250260	178.133 ng/mL
34)	gamma-Chlordane #2	5.202	3002618893	188.266 ng/mL
35)	alpha-Chlordane #2	5.407	2925156066	184.119 ng/mL
36)	Endosulfan I #2	5.475	2577522233	179.229 ng/mL
37)	4,4'-DDE #2	5.689	3319969912	202.768 ng/mL
38)	Dieldrin #2	5.875	2999208183	190.327 ng/mL
39)	Endrin #2	6.329	1965188820	166.456 ng/mL
40)	4.4'-DDD #2	6.586	2155867059	183.310 ng/mL
41)	Endosulfan II #2	6.677	2449452829	189.496 ng/mL
42)	4,4'-DDT #2	7.096	1374185408	178.449 ng/mL
43)	Endrin Aldehyde #2	7.246	1878071179	182.038 ng/mL
44)	Methoxychlor #2	8.374	674606448	188.062 ng/mL
45)	Endosulfan Sulfate #2	7.723	1861649852	163.635 ng/mL
46)	Endrin Ketone #2	8.640	1834287278	151.088 ng/mL
47)	Decachlorobiphenyl #2	11.109	2507169731	225.751 ng/mL

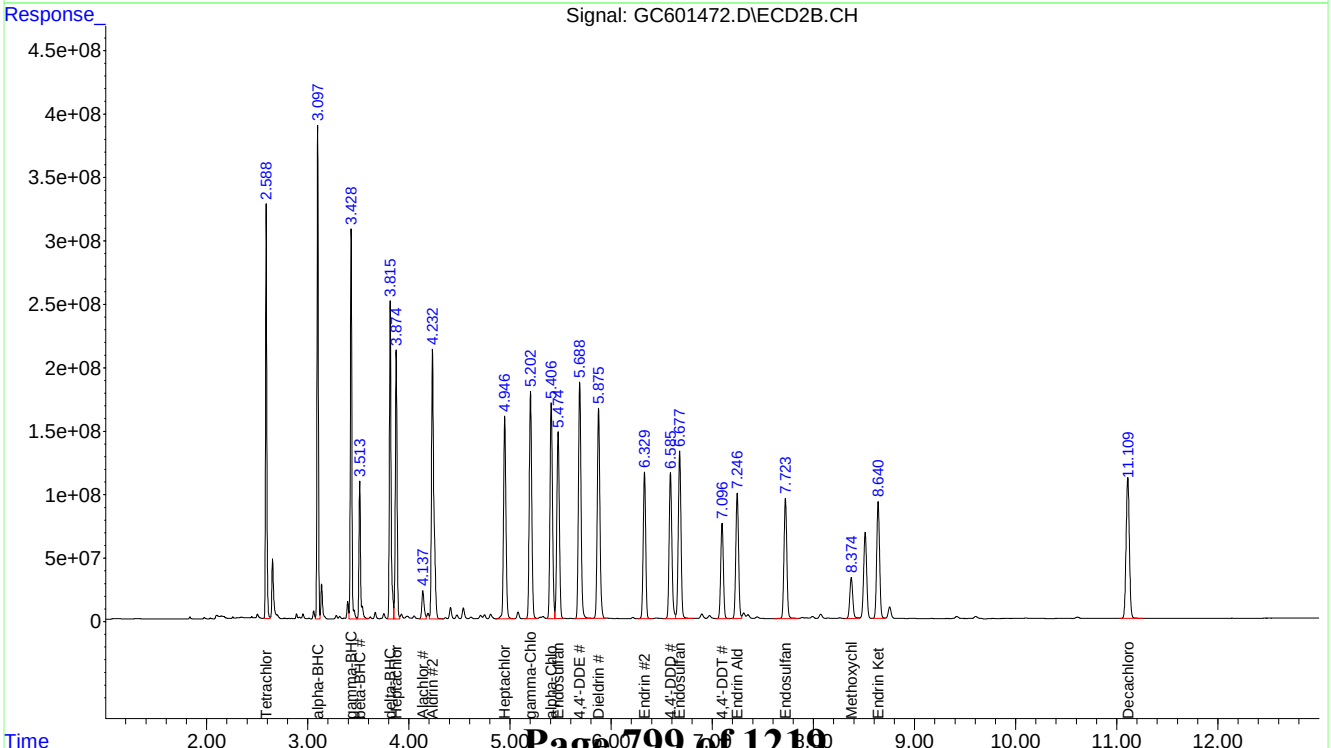
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601472.D
Acq On : 17 Jan 2020 3:29 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CAL6
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 22 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 05:49:11 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 05:48:54 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062450.D\ECD1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062450.D\ECD2A.CH
Acq On : 20 Jan 2020 2:43 pm Operator: CM
Sample : SEQ-CAL1 Inst : GC DUAL E
Misc : QBPEST5-012020A 2.0 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 17:15 2020 Quant Results File: P5122419.RES

Quant Method : C:\HPCHEM\1\METHODS\P5122419.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 12:39:12 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.93	160708	440786	91.187	45.869 #
	Spiked Amount 200.000	Range 30 - 150		Recovery =		45.59%	22.93%#
23) SA	Decachlorobiphen	12.30	10.63	119118	346912	61.248	54.997
	Spiked Amount 200.000	Range 30 - 150		Recovery =		30.62%	27.50%#
	Target Compounds						
2) M	alpha-BHC	3.80	3.40	4824	12102	2.225m	1.888
3) M	gamma-BHC (Linda	4.20	3.69	4468	10376	2.238m	1.927m
4) M	beta-BHC	4.30	3.78	2016	5600	1.927m	1.906m
5) M	delta-BHC	4.65	3.96	3576	9536	2.052m	1.782m
6) M	Heptachlor	4.73	4.18	2830	11556	1.954m	2.081m
7) M	Aldrin	5.15	4.51	5164	12784	2.249m	1.946m
8) M	Alachlor	5.01	4.68	698	2276	2.800m	2.153m
9) M	Heptachlor Epoxi	5.96	5.24	4446	12100	2.140m	1.903m
10) M	gamma-Chlordane	6.25	5.41	4670	14594	2.256m	2.350m
11) M	alpha-Chlordane	6.47	5.72	4832	8968	2.261m	1.386 #
12) M	Endosulfan I	6.56	5.76	4224	14848	2.020m	1.792m
13) M	4,4'-DDE	6.76	5.72	4618	8968	2.425m	2.278
14) M	Dieldrin	7.00	6.10	4210	11792	2.057m	1.976m
15) M	Endrin	7.50	6.43	3292	9750	1.919m	1.946m
16) M	4,4'-DDD	7.74	6.60	2472	7536	2.036m	1.927m
17) M	Endosulfan II	7.87	6.77	3584	9316	2.000m	1.976m
18) M	4,4'-DDT	8.29	7.03	1322	5162	1.672	1.620
19) M	Endrin Aldehyde	8.48	7.44	3012	9672	1.875m	2.044m
20) M	Methoxychlor	9.61	7.90	660	1990	1.312m	0.987m
21) M	Endosulfan sulfa	8.99	8.17	3194	10500	1.988m	2.043m
22) M	Endrin Ketone	9.97	8.63	3118	10058	1.732m	1.870m

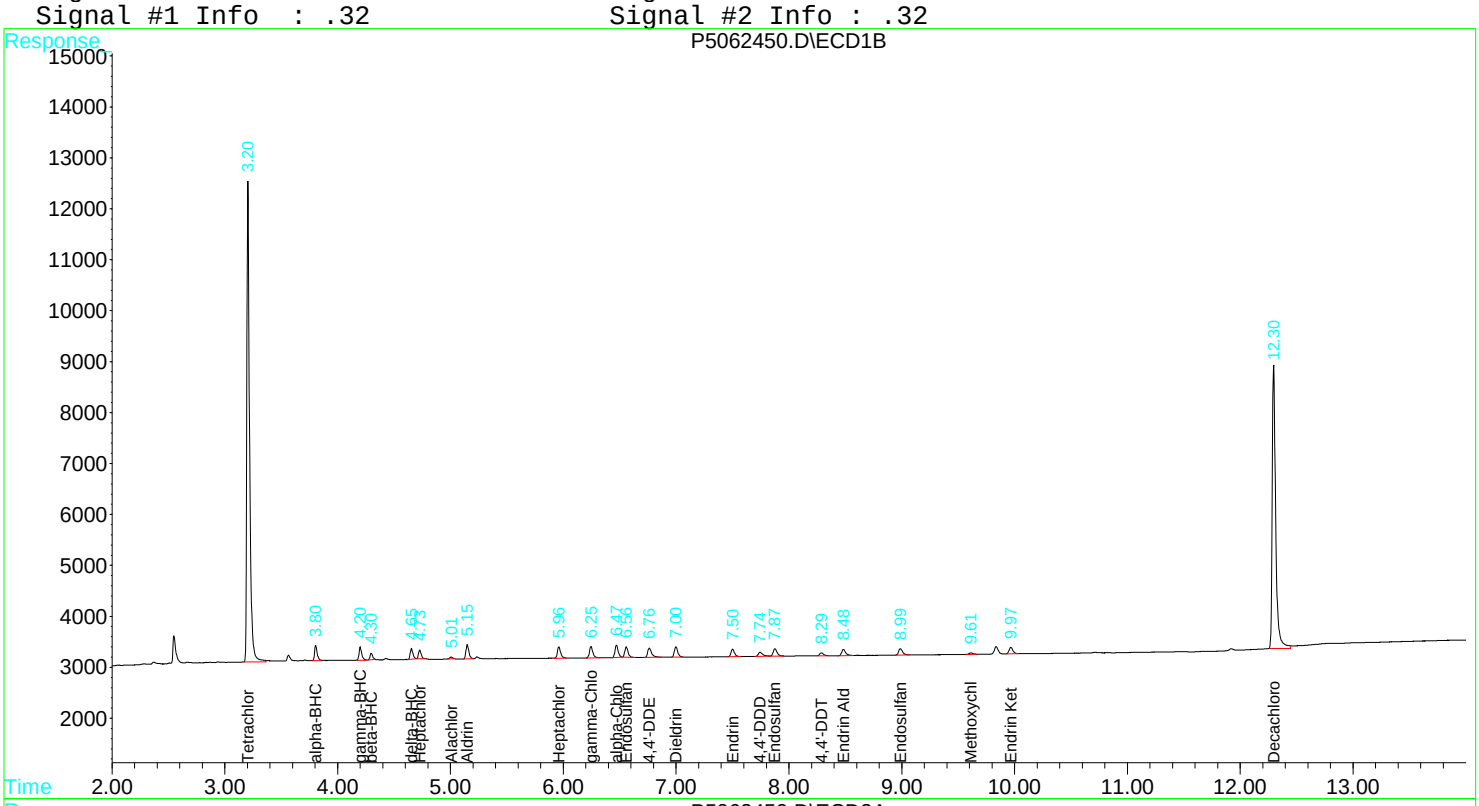
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

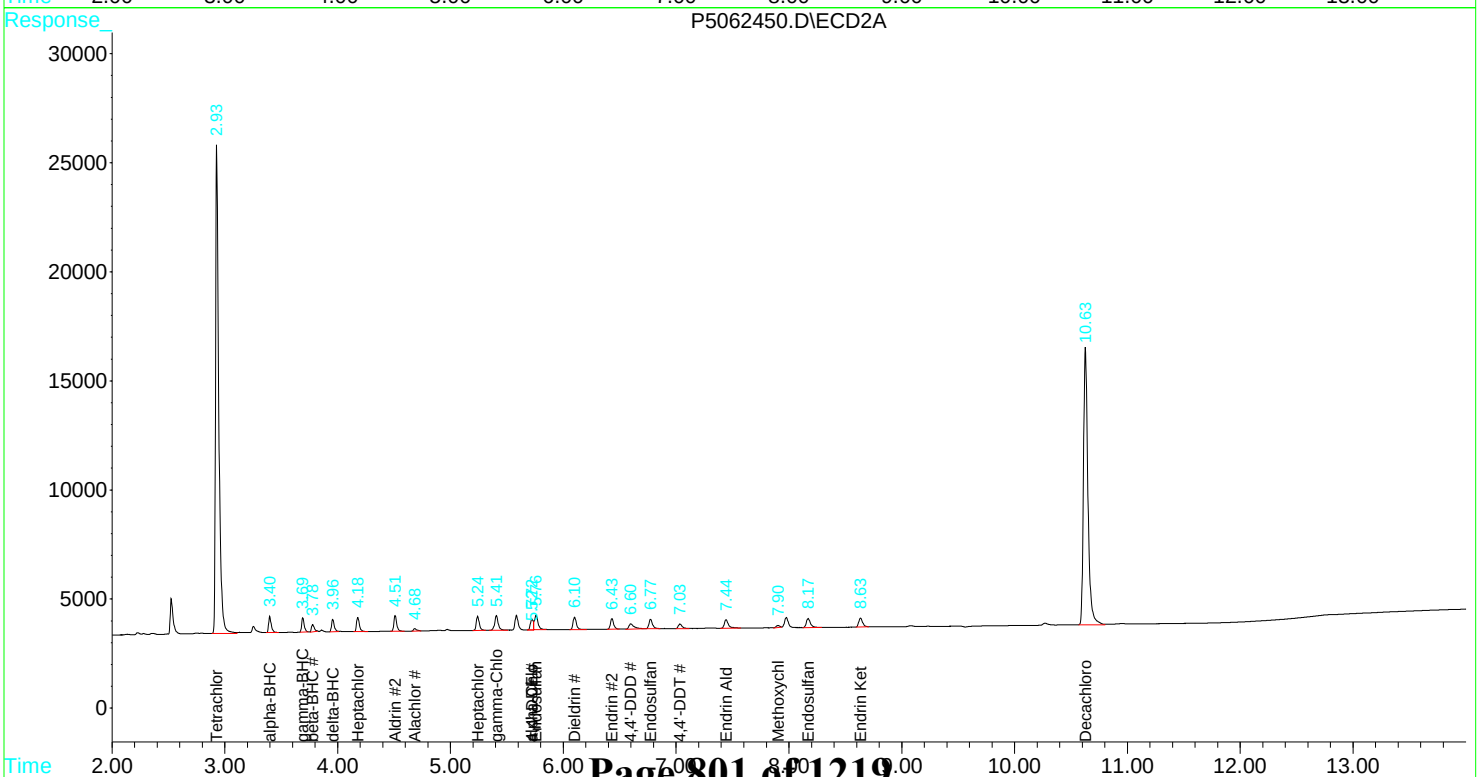
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062450.D\ECD1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062450.D\ECD2A.CH
Acq On : 20 Jan 2020 2:43 pm Operator: CM
Sample : SEQ-CAL1 Inst : GC DUAL E
Misc : QBPEST5-012020A 2.0 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 17:15 2020 Quant Results File: P5122419.RES

Quant Method : C:\HPCHEM\1\METHODS\P5122419.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 12:39:12 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062451.D\ECD1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062451.D\ECD2A.CH
Acq On : 20 Jan 2020 3:01 pm Operator: CM
Sample : SEQ-CAL2 Inst : GC DUAL E
Misc : QBPEST5-012020A 5.0 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 15:28 2020 Quant Results File: P5122419.RES

Quant Method : C:\HPCHEM\1\METHODS\P5122419.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 12:39:12 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.93	252918	698164	143.507	72.652 #
	Spiked Amount 200.000	Range 30 - 150		Recovery =		71.75%	36.33%
23) SA	Decachlorobiphen	12.29	10.62	180212	531220	92.661	84.216
	Spiked Amount 200.000	Range 30 - 150		Recovery =		46.33%	42.11%
	Target Compounds						
2) M	alpha-BHC	3.80	3.40	11284	27422	5.204	4.278
3) M	gamma-BHC (Linda	4.20	3.69	9822	24746	4.920	4.597
4) M	beta-BHC	4.30	3.78	5306	14420	5.071	4.909
5) M	delta-BHC	4.65	3.95	8846	22952	5.076	4.289
6) M	Heptachlor	4.73	4.18	7972	25620	5.505	4.613
7) M	Aldrin	5.15	4.51	11942	29056	5.201	4.424
8) M	Alachlor	5.01	4.68	1282	5426	5.143	5.132m
9) M	Heptachlor Epoxi	5.96	5.24	10240	27898	4.930	4.389
10) M	gamma-Chlordane	6.24	5.41	10698	30650	5.169	4.935
11) M	alpha-Chlordane	6.47	5.72	11504	22626	5.383	3.497 #
12) M	Endosulfan I	6.56	5.76	10294	34072	4.924	4.113
13) M	4,4'-DDE	6.76	5.72	11080	22626	5.818	5.747
14) M	Dieldrin	7.00	6.10	10044	26936	4.907	4.513
15) M	Endrin	7.50	6.43	7914	23012	4.612	4.593
16) M	4,4'-DDD	7.74	6.59	5836	20058	4.807	5.128
17) M	Endosulfan II	7.87	6.77	8460	22694	4.721	4.813
18) M	4,4'-DDT	8.29	7.03	3654	14038	4.621	4.405
19) M	Endrin Aldehyde	8.48	7.44	7424	23202	4.621	4.903
20) M	Methoxychlor	9.61	7.90	1876	7242	3.729	3.590
21) M	Endosulfan sulfa	8.99	8.17	7850	24874	4.886	4.839
22) M	Endrin Ketone	9.96	8.63	7742	25300	4.300	4.703

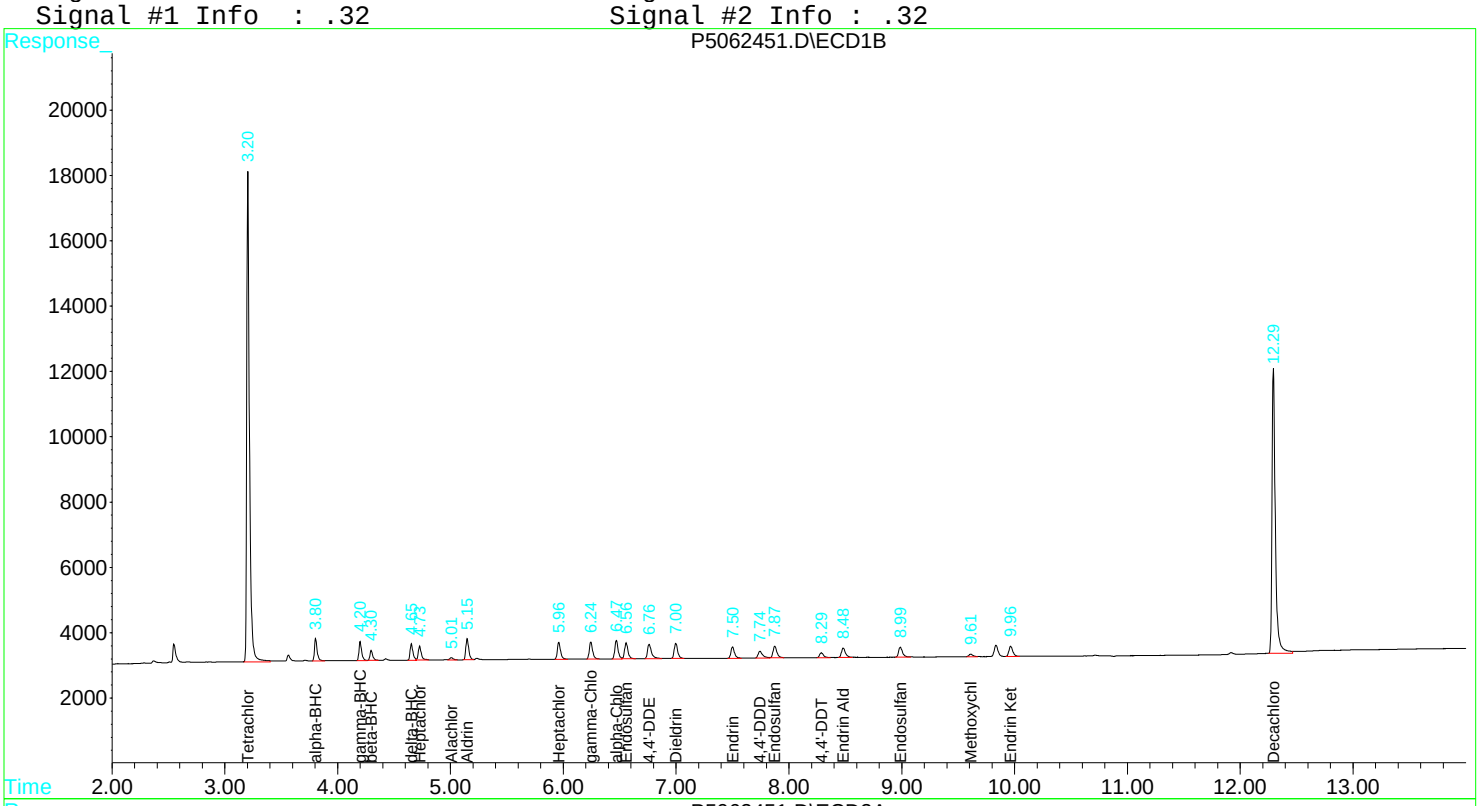
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062451.D P5021120.M Thu Feb 20 11:45:44 2020 Page 1

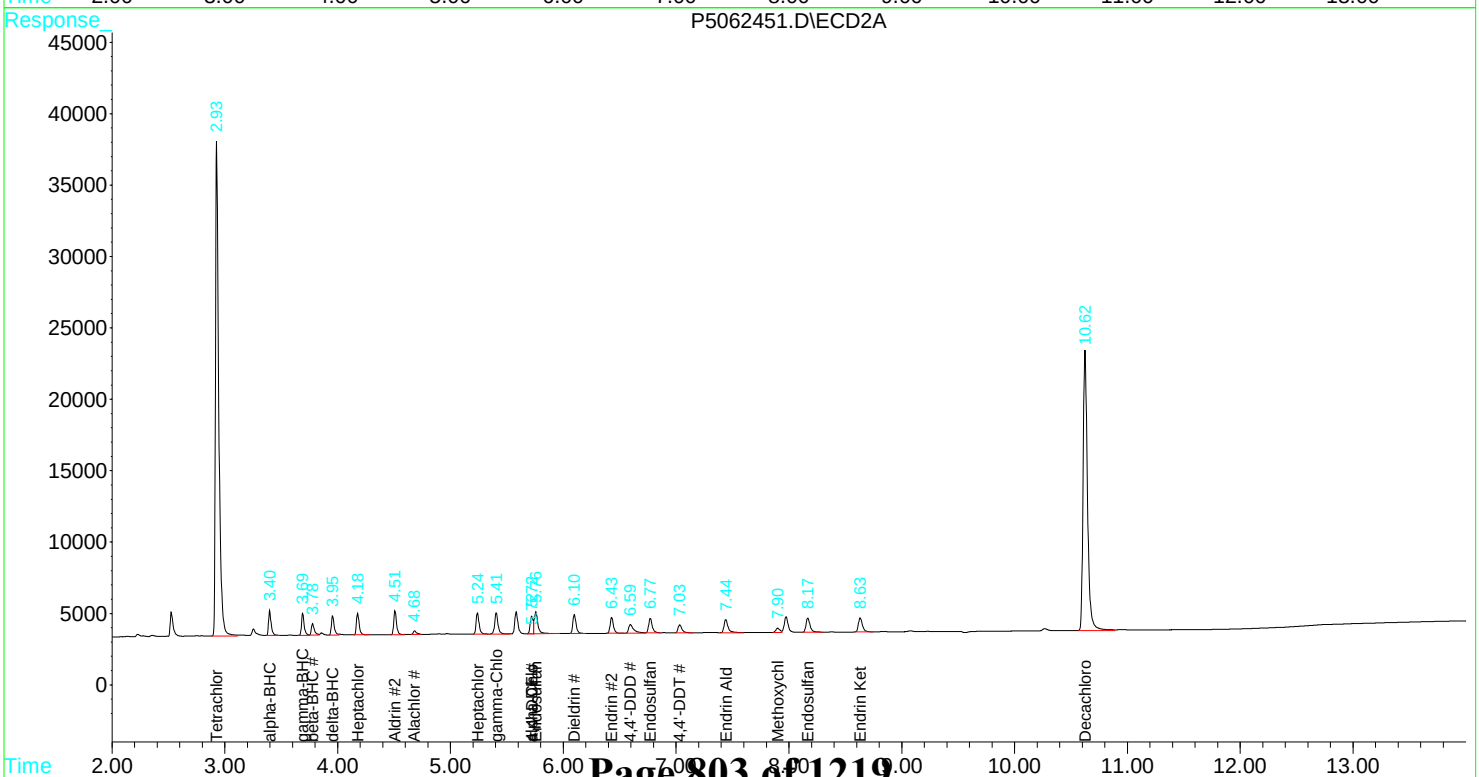
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062451.D\ECD1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062451.D\ECD2A.CH
Acq On : 20 Jan 2020 3:01 pm Operator: CM
Sample : SEQ-CAL2 Inst : GC DUAL E
Misc : QBPEST5-012020A 5.0 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 15:28 2020 Quant Results File: P5122419.RES

Quant Method : C:\HPCHEM\1\METHODS\P5122419.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 12:39:12 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062452.D\ECD1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062452.D\ECD2A.CH
Acq On : 20 Jan 2020 3:19 pm Operator: CM
Sample : SEQ-CAL3 Inst : GC DUAL E
Misc : QBPEST5-012020A 20.0 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 15:40 2020 Quant Results File: P5122419.RES

Quant Method : C:\HPCHEM\1\METHODS\P5122419.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 12:39:12 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.92	381828	1061188	216.651	110.429 #
	Spiked Amount 200.000	Range 30 - 150		Recovery =		108.33%	55.21%
23) SA	Decachlorobiphen	12.29	10.62	269740	794416	138.694	125.941
	Spiked Amount 200.000	Range 30 - 150		Recovery =		69.35%	62.97%
	Target Compounds						
2) M	alpha-BHC	3.80	3.40	43242	112306	19.943	17.521
3) M	gamma-BHC (Linda	4.20	3.69	37236	95924	18.652	17.819
4) M	beta-BHC	4.30	3.78	20844	51488	19.922	17.527
5) M	delta-BHC	4.65	3.95	34816	92518	19.979	17.290
6) M	Heptachlor	4.72	4.18	30882	94486	21.325	17.014
7) M	Aldrin	5.15	4.51	45264	112622	19.713	17.146
8) M	Alachlor	5.01	4.68	4648	20334	18.645	19.231
9) M	Heptachlor Epoxi	5.96	5.24	38614	103376	18.589	16.262
10) M	gamma-Chlordane	6.24	5.40	40334	113464	19.488	18.269
11) M	alpha-Chlordane	6.47	5.72	43050	97326	20.145	15.044 #
12) M	Endosulfan I	6.56	5.75	38988	128358	18.648	15.493
13) M	4,4'-DDE	6.76	5.72	44148	97326	23.182	24.721
14) M	Dieldrin	7.00	6.10	38178	103476	18.652	17.337
15) M	Endrin	7.50	6.43	30998	88364	18.066	17.635
16) M	4,4'-DDD	7.74	6.59	23348	76234	19.233	19.491
17) M	Endosulfan II	7.87	6.77	34018	85304	18.983	18.093
18) M	4,4'-DDT	8.29	7.03	17466	61802	22.090	19.393
19) M	Endrin Aldehyde	8.48	7.44	28932	84556	18.007	17.867
20) M	Methoxychlor	9.61	7.90	9552	33050	18.988	16.385
21) M	Endosulfan sulfa	8.98	8.17	30772	92804	19.155	18.054
22) M	Endrin Ketone	9.96	8.63	30082	94610	16.708	17.587

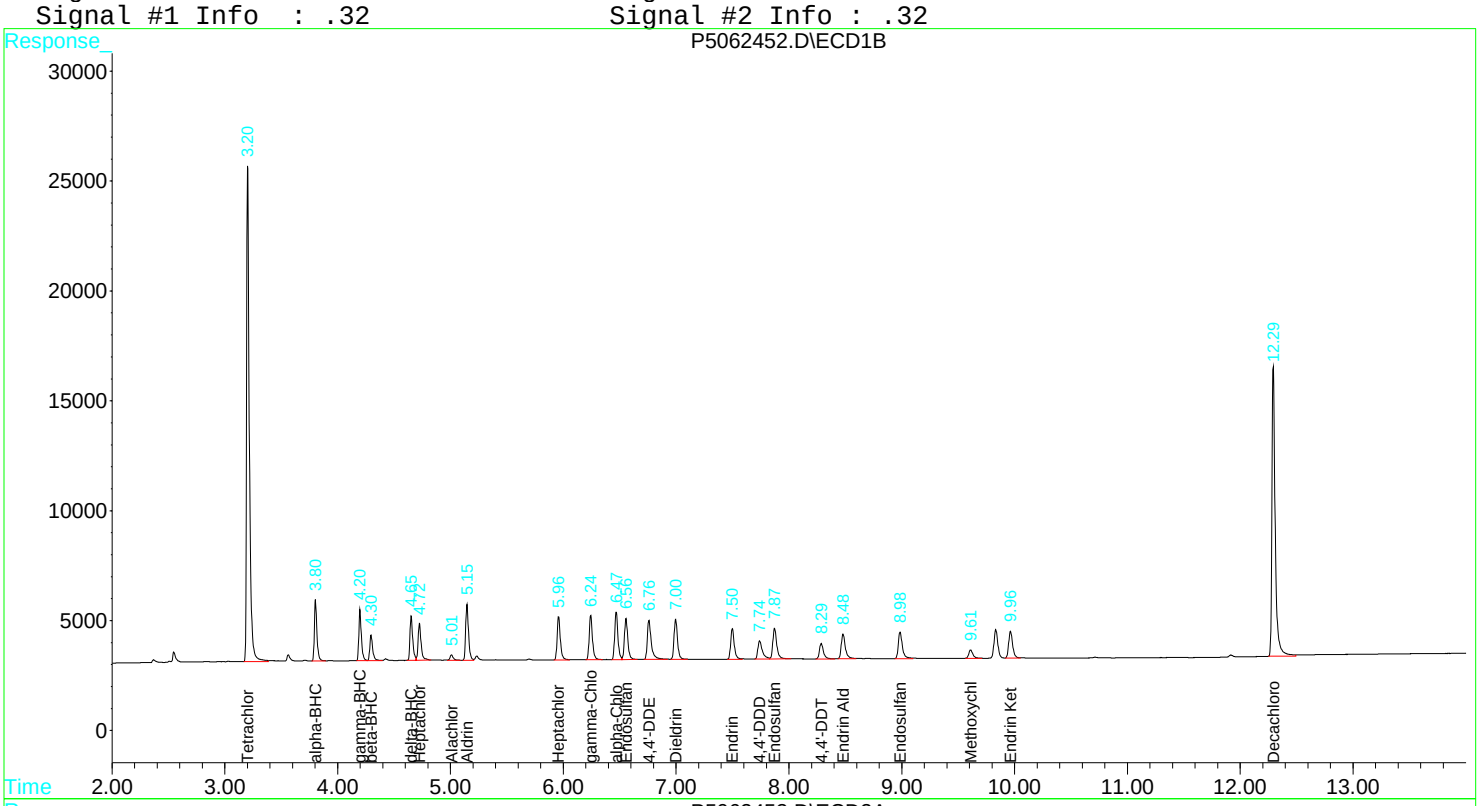
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062452.D P5021120.M Thu Feb 20 11:45:50 2020 Page 1

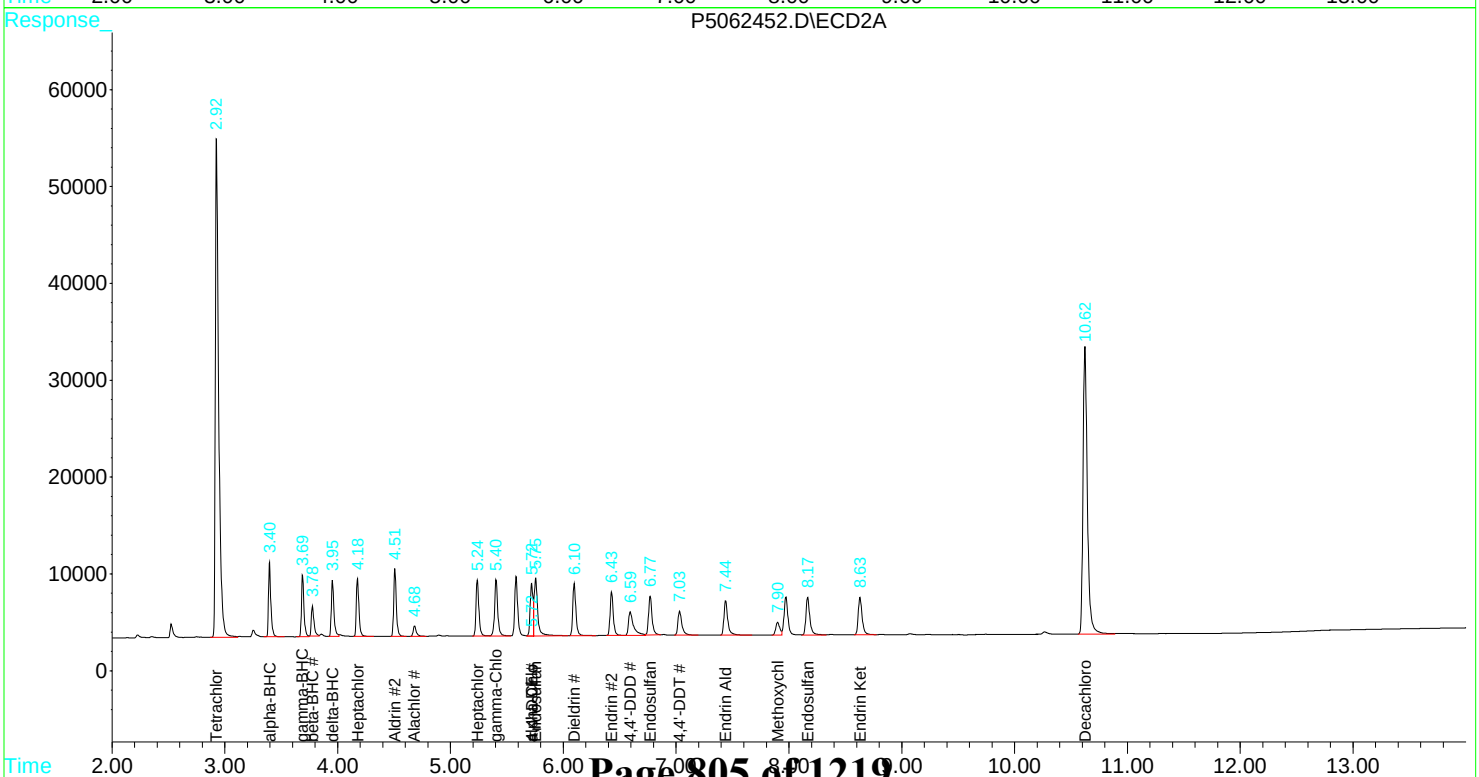
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062452.D\ECD1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062452.D\ECD2A.CH
Acq On : 20 Jan 2020 3:19 pm Operator: CM
Sample : SEQ-CAL3 Inst : GC DUAL E
Misc : QBPEST5-012020A 20.0 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 15:40 2020 Quant Results File: P5122419.RES

Quant Method : C:\HPCHEM\1\METHODS\P5122419.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 12:39:12 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062453.D\ECD1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062453.D\ECD2A.CH
Acq On : 20 Jan 2020 3:37 pm Operator: CM
Sample : SEQ-CAL4 Inst : GC DUAL E
Misc : QBPEST5-012020A 50.0 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 15:56 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 15:46:23 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.93	451720	1253792	150.209	150.958
	Spiked Amount 200.000	Range 30 - 150		Recovery =		75.10%	75.48%
23) SA	Decachlorobiphen	12.29	10.62	323446	952514	149.610	150.063
	Spiked Amount 200.000	Range 30 - 150		Recovery =		74.81%	75.03%
	Target Compounds						
2) M	alpha-BHC	3.80	3.40	91068	243606	39.322	42.612
3) M	gamma-BHC (Linda	4.20	3.69	77166	203646	38.530	40.163
4) M	beta-BHC	4.30	3.78	42266	104574	38.914	35.661
5) M	delta-BHC	4.65	3.95	74186	202224	41.009	42.638
6) M	Heptachlor	4.72	4.18	63654	194902	39.297	37.354
7) M	Aldrin	5.15	4.51	94644	241718	38.801	40.488
8) M	Alachlor	5.01	4.68	9680	42290	34.662	39.110
9) M	Heptachlor Epoxi	5.96	5.24	79992	214548	38.883	38.015
10) M	gamma-Chlordane	6.24	5.40	84014	225336	38.738	35.199
11) M	alpha-Chlordane	6.47	5.72	90016	231876	38.994	50.134 #
12) M	Endosulfan I	6.56	5.76	81770	268204	39.648	38.435
13) M	4,4'-DDE	6.76	5.72	95688	231876	42.894	50.134
14) M	Dieldrin	7.00	6.10	81902	221168	40.615	40.222
15) M	Endrin	7.50	6.43	65514	187862	41.155	40.128
16) M	4,4'-DDD	7.74	6.59	50800	164278	42.373	41.072
17) M	Endosulfan II	7.87	6.77	71704	180634	41.576	39.604
18) M	4,4'-DDT	8.29	7.03	40556	143118	53.714	50.639
19) M	Endrin Aldehyde	8.48	7.44	62362	180122	41.897	38.575
20) M	Methoxychlor	9.61	7.90	23282	76854	55.442	50.920
21) M	Endosulfan sulfa	8.98	8.16	66430	194006	41.818	38.647
22) M	Endrin Ketone	9.96	8.63	63884	198092	41.560	39.204

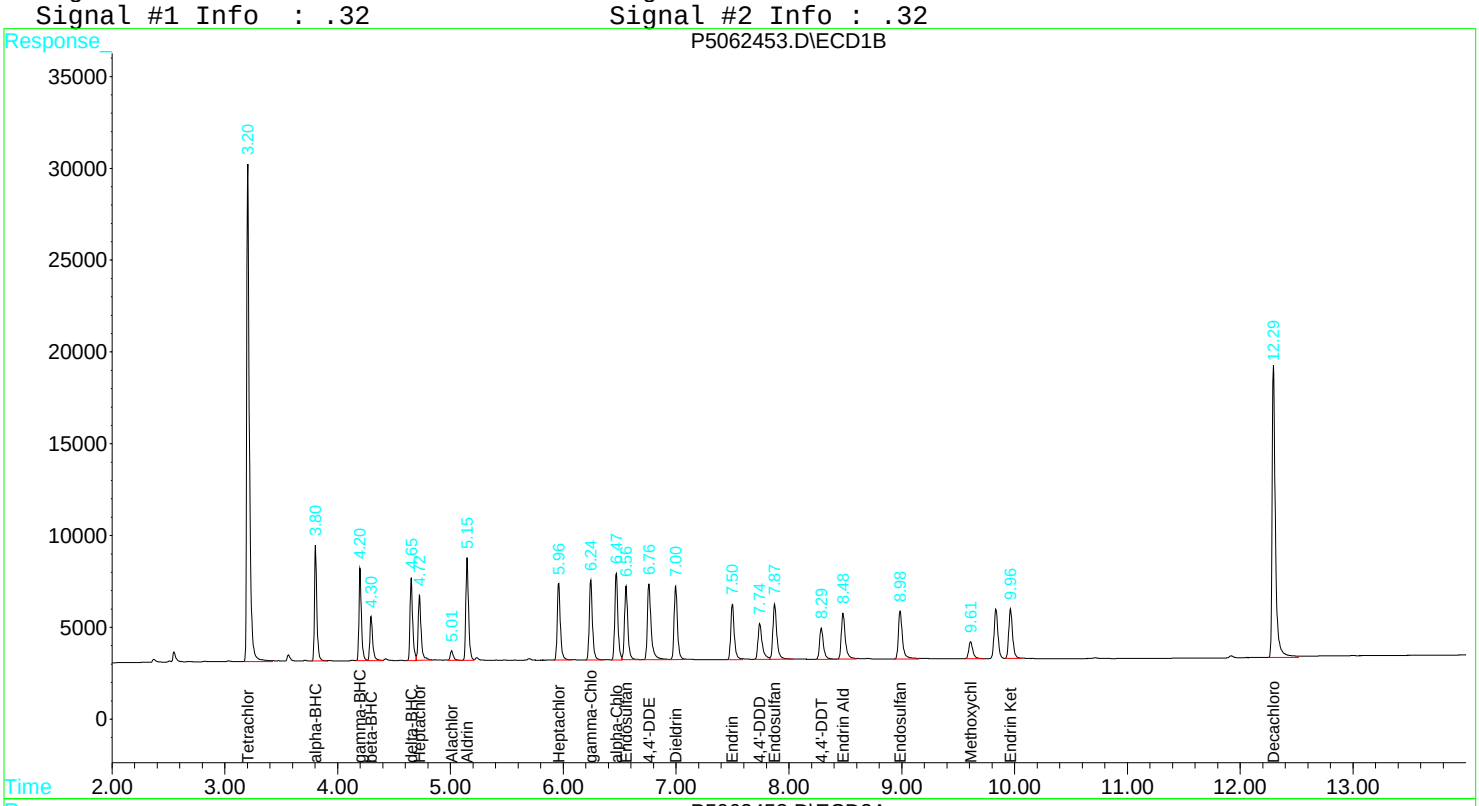
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062453.D P5012020.M Mon Jan 20 17:41:59 2020 Page 1

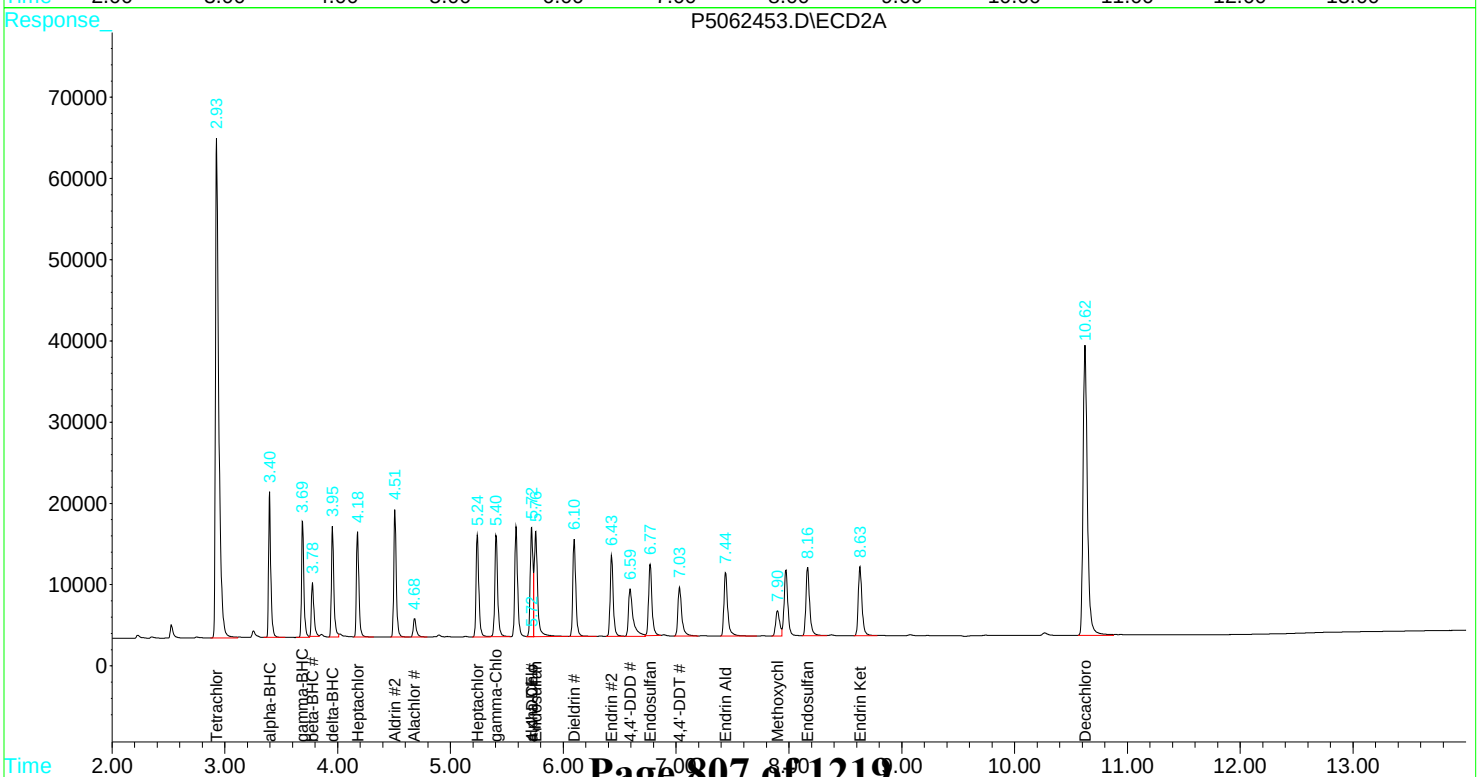
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062453.D\ECD1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062453.D\ECD2A.CH
Acq On : 20 Jan 2020 3:37 pm Operator: CM
Sample : SEQ-CAL4 Inst : GC DUAL E
Misc : QBPEST5-012020A 50.0 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 15:56 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 15:46:23 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062454.D\ECD1B.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062454.D\ECD2A.CH
Acq On : 20 Jan 2020 3:55 pm Operator: CM
Sample : SEQ-CAL5 Inst : GC DUAL E
Misc : QBPEST5-012020A 100 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 16:18 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 15:56:24 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	SA Tetrachloro-m-xy	3.20	2.92	653326	1808260	220.623	220.837	
	Spiked Amount 200.000	Range 30 - 150		Recovery =		110.31%	110.42%	
23)	SA Decachlorobiphen	12.29	10.62	434236	1275482	204.171	204.114	
	Spiked Amount 200.000	Range 30 - 150		Recovery =		102.09%	102.06%	
	Target Compounds							
2)	M alpha-BHC	3.80	3.39	205966	554886	93.949	100.784	
3)	M gamma-BHC (Linda	4.20	3.69	171946	453936	91.079	94.156	
4)	M beta-BHC	4.29	3.77	89962	226656	87.688	83.261	
5)	M delta-BHC	4.65	3.95	169322	467930	98.005	102.432	
6)	M Heptachlor	4.72	4.17	139248	426458	90.825	87.249	
7)	M Aldrin	5.14	4.50	209752	538798	91.093	94.756	
8)	M Alachlor	5.01	4.68	20720	86444	80.357	84.548	
9)	M Heptachlor Epoxi	5.96	5.23	174084	460104	89.601	86.721	
10)	M gamma-Chlordane	6.24	5.40	182476	486644	89.159	82.093	
11)	M alpha-Chlordane	6.47	5.72	195558	590708	89.648	127.631	#
12)	M Endosulfan I	6.55	5.75	177928	527922	90.982	80.297	
13)	M 4,4'-DDE	6.76	5.72	211100	590708	98.116	127.631	#
14)	M Dieldrin	6.99	6.09	180188	483120	93.753	92.378	
15)	M Endrin	7.50	6.42	146216	410828	96.100	92.311	
16)	M 4,4'-DDD	7.74	6.59	107074	343360	92.853	89.856	
17)	M Endosulfan II	7.87	6.77	152428	382848	92.269	88.542	
18)	M 4,4'-DDT	8.28	7.03	91772	321762	119.331	113.486	
19)	M Endrin Aldehyde	8.48	7.43	133010	370996	93.134	84.266	
20)	M Methoxychlor	9.61	7.89	52248	164638	121.124	108.583	
21)	M Endosulfan sulfa	8.98	8.16	139702	404428	91.695	85.412	
22)	M Endrin Ketone	9.96	8.63	132210	401172	89.799	83.926	

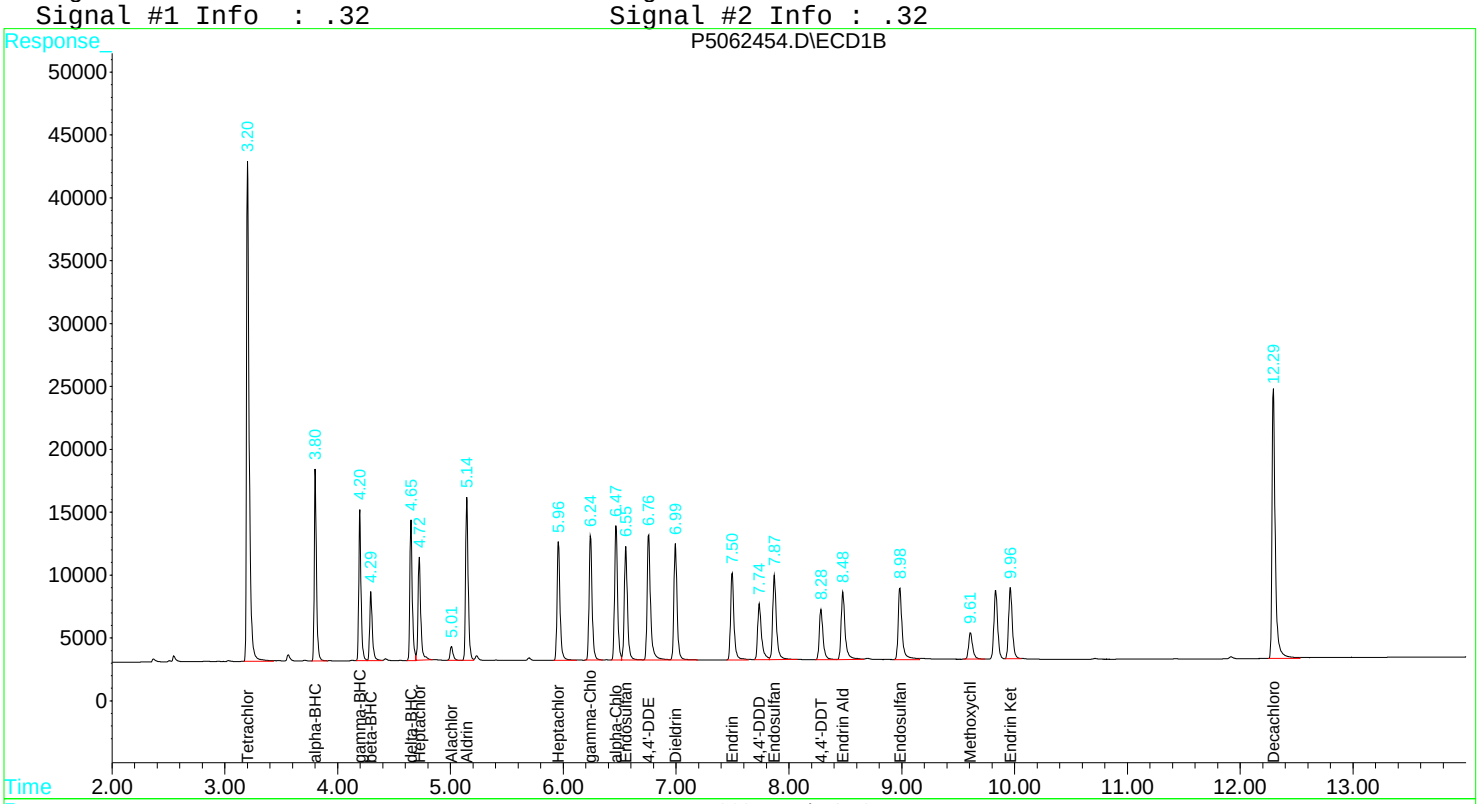
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

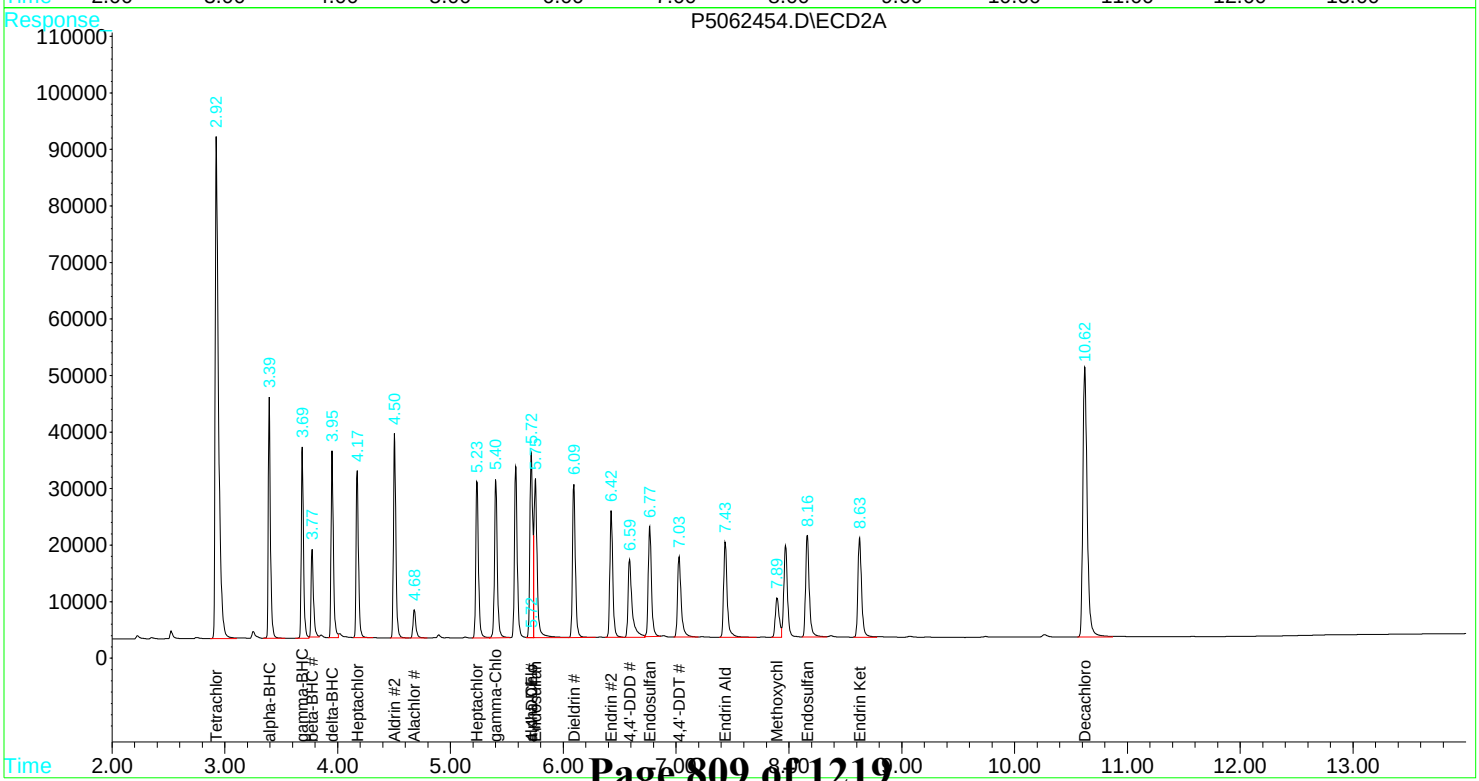
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062454.D\ECD1B.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062454.D\ECD2A.CH
Acq On : 20 Jan 2020 3:55 pm Operator: CM
Sample : SEQ-CAL5 Inst : GC DUAL E
Misc : QBPEST5-012020A 100 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 16:18 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 15:56:24 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062455.D\ECD1B.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062455.D\ECD2A.CH
Acq On : 20 Jan 2020 4:13 pm Operator: CM
Sample : SEQ-CAL6 Inst : GC DUAL E
Misc : QBPEST5-012020A 200 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 17:08 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 16:19:08 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.93	654336	1811224	216.499	216.684
	Spiked Amount 200.000	Range 30 - 150		Recovery =		108.25%	108.34%
23) SA	Decachlorobiphen	12.29	10.62	373770	1093646	175.011	174.298
	Spiked Amount 200.000	Range 30 - 150		Recovery =		87.51%	87.15%
	Target Compounds						
2) M	alpha-BHC	3.80	3.39	339332	915312	156.679	165.988
3) M	gamma-BHC (Linda	4.20	3.69	279558	735864	150.770	154.440
4) M	beta-BHC	4.29	3.78	141600	366524	141.505	139.305
5) M	delta-BHC	4.65	3.95	273288	751202	158.816	163.646
6) M	Heptachlor	4.72	4.17	196416	664890	130.508	139.589
7) M	Aldrin	5.15	4.51	339392	867484	150.067	154.177
8) M	Alachlor	5.01	4.68	31824	133322	128.468	134.556
9) M	Heptachlor Epoxi	5.96	5.24	277166	716912	145.687	138.811
10) M	gamma-Chlordane	6.24	5.40	288134	750546	143.904	131.314
11) M	alpha-Chlordane	6.47	5.72	307662	894740	144.020	183.197 #
12) M	Endosulfan I	6.56	5.75	277582	833900	144.546	132.040
13) M	4,4'-DDE	6.76	5.72	324872	894740	151.566	183.197
14) M	Dieldrin	6.99	6.09	281708	746736	148.430	144.994
15) M	Endrin	7.50	6.43	221598	615906	146.790	140.553
16) M	4,4'-DDD	7.74	6.59	159898	507132	140.673	135.463
17) M	Endosulfan II	7.87	6.77	231854	587962	142.552	139.168
18) M	4,4'-DDT	8.28	7.03	133242	464582	166.805	159.555
19) M	Endrin Aldehyde	8.48	7.44	199114	547072	141.361	128.297
20) M	Methoxychlor	9.61	7.89	74332	232350	165.335	150.654
21) M	Endosulfan sulfa	8.98	8.16	203970	586140	136.139	127.508
22) M	Endrin Ketone	9.96	8.63	190720	568804	132.237	122.947

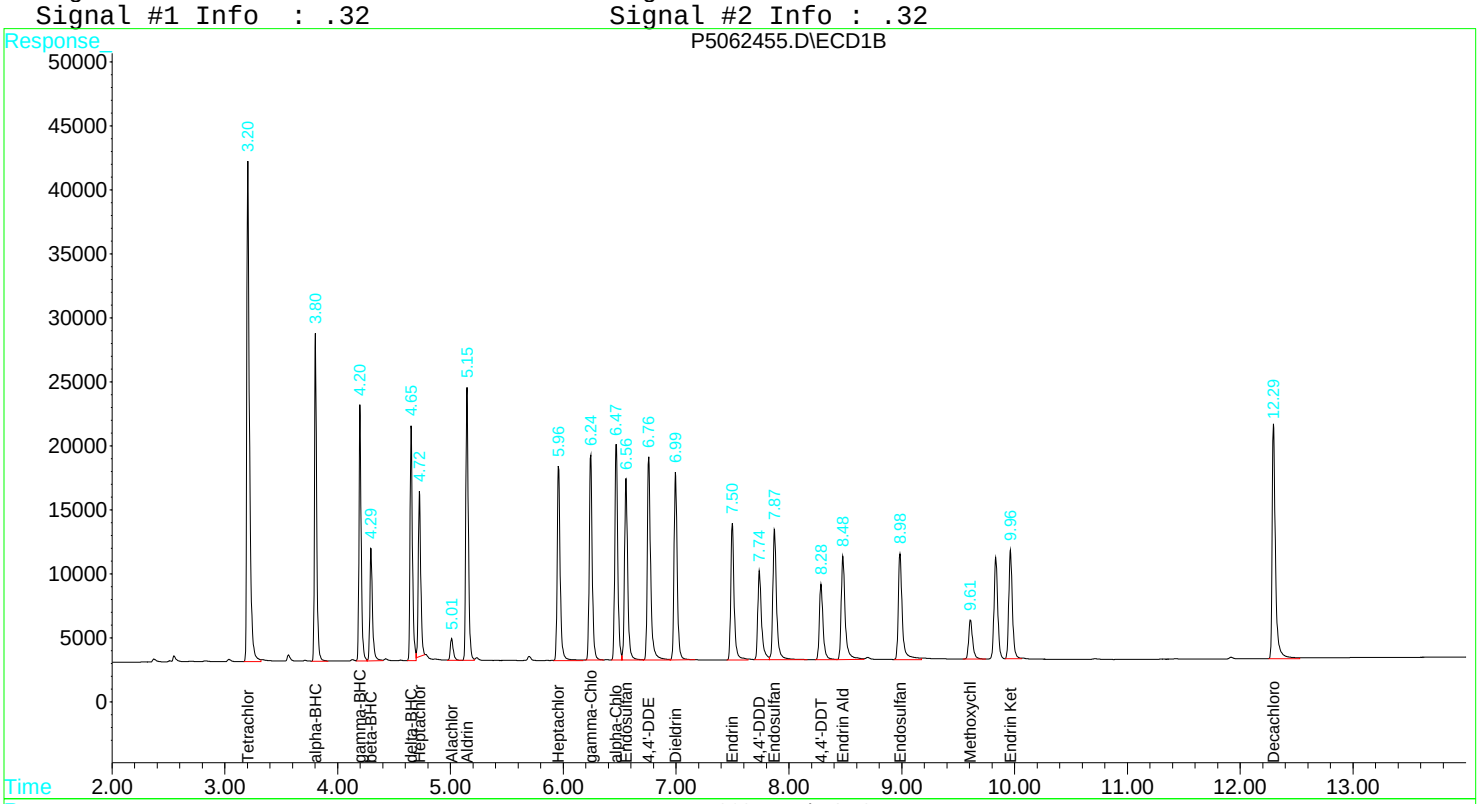
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062455.D P5012020.M Mon Jan 20 17:42:03 2020 Page 1

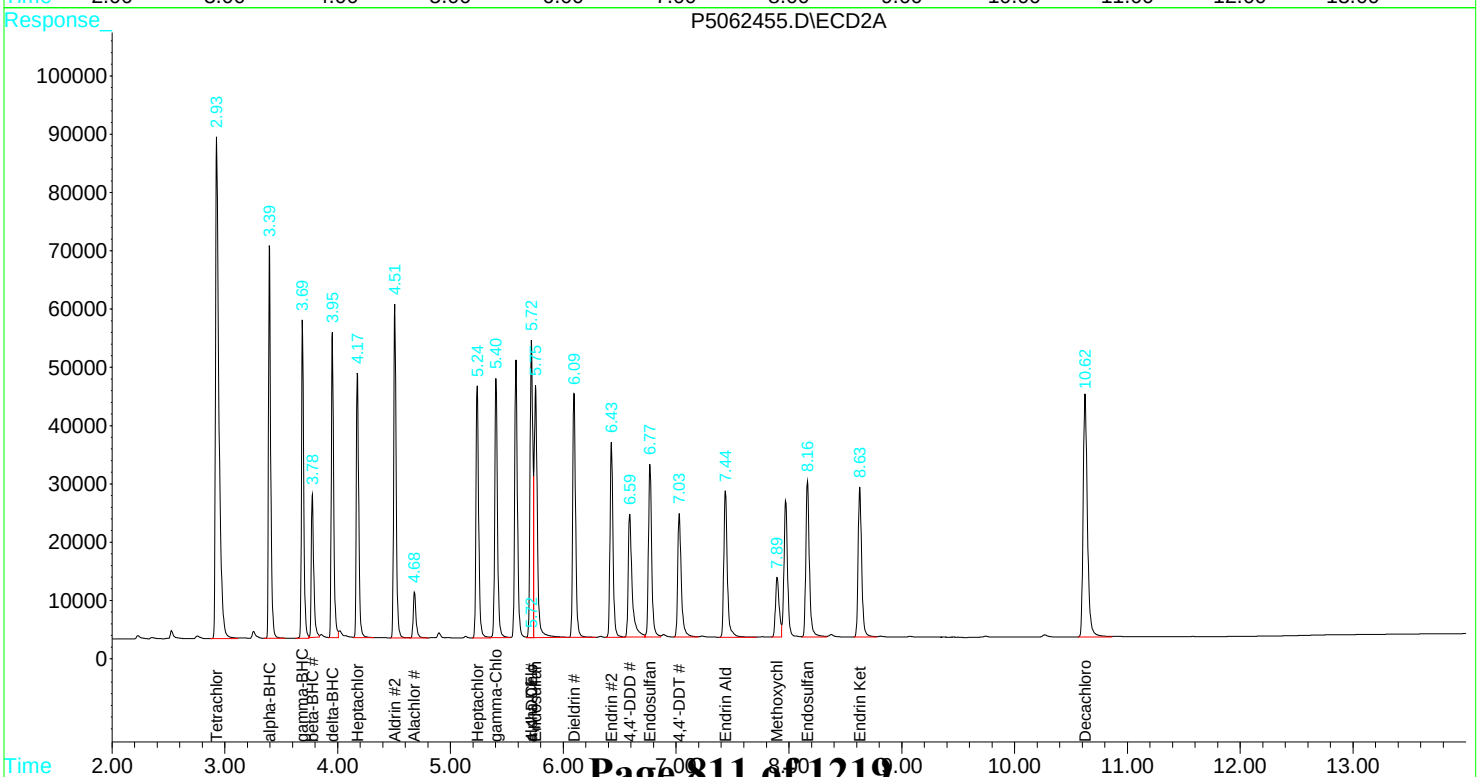
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062455.D\ECD1B.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062455.D\ECD2A.CH
Acq On : 20 Jan 2020 4:13 pm Operator: CM
Sample : SEQ-CAL6 Inst : GC DUAL E
Misc : QBPEST5-012020A 200 Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 17:08 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 16:19:08 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YA00016 **Laboratory ID:** Y0A2002-SCV1

Sequence: Y0A2002 **Standard ID:** Y19K151

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DIFF	QC LIMIT
4,4'-DDD	50.0	55.6	11.3	20.00
4,4'-DDD [2C]	50.0	54.8	9.7	20.00
4,4'-DDE	50.0	44.3	-11.4	20.00
4,4'-DDE [2C]	50.0	51.6	3.3	20.00
4,4'-DDT	50.0	58.2	16.5	20.00
4,4'-DDT [2C]	50.0	52.4	4.9	20.00
Aldrin	50.0	56.9	13.7	20.00
Aldrin [2C]	50.0	52.7	5.4	20.00
alpha-BHC	50.0	55.2	10.3	20.00
alpha-BHC [2C]	50.0	54.7	9.3	20.00
alpha-Chlordane	50.0	53.3	6.7	20.00
alpha-Chlordane [2C]	50.0	52.3	4.6	20.00
beta-BHC	50.0	56.4	12.8	20.00
beta-BHC [2C]	50.0	53.5	7.1	20.00
delta-BHC	50.0	58.9	17.8	20.00
delta-BHC [2C]	50.0	56.5	13.0	20.00
Dieldrin	50.0	53.8	7.6	20.00
Dieldrin [2C]	50.0	53.4	6.8	20.00
Endosulfan I	50.0	55.4	10.8	20.00
Endosulfan I [2C]	50.0	52.6	5.1	20.00
Endosulfan II	50.0	55.2	10.4	20.00
Endosulfan II [2C]	50.0	52.3	4.6	20.00
Endosulfan sulfate	50.0	55.5	11.0	20.00
Endosulfan sulfate [2C]	50.0	55.6	11.2	20.00
Endrin	50.0	56.2	12.3	20.00
Endrin [2C]	50.0	57.2	14.4	20.00
Endrin aldehyde	50.0	53.6	7.2	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YA00016 **Laboratory ID:** Y0A2002-SCV1

Sequence: Y0A2002 **Standard ID:** Y19K151

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DIFF	QC LIMIT
Endrin aldehyde [2C]	50.0	52.3	4.6	20.00
Endrin ketone	50.0	59.4	18.7	20.00
Endrin ketone [2C]	50.0	58.8	17.6	20.00
gamma-BHC (Lindane)	50.0	56.1	12.3	20.00
gamma-BHC (Lindane) [2C]	50.0	54.0	8.0	20.00
gamma-Chlordane	50.0	52.9	5.8	20.00
gamma-Chlordane [2C]	50.0	52.9	5.8	20.00
Heptachlor	50.0	55.2	10.4	20.00
Heptachlor [2C]	50.0	54.3	8.6	20.00
Heptachlor epoxide	50.0	53.6	7.3	20.00
Heptachlor epoxide [2C]	50.0	53.3	6.6	20.00
Methoxychlor	50.0	56.0	12.0	20.00
Methoxychlor [2C]	50.0	59.4	18.8	20.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601473.D
Acq On : 17 Jan 2020 3:46 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-SCV1
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 23 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 06:32:29 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 06:26:52 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

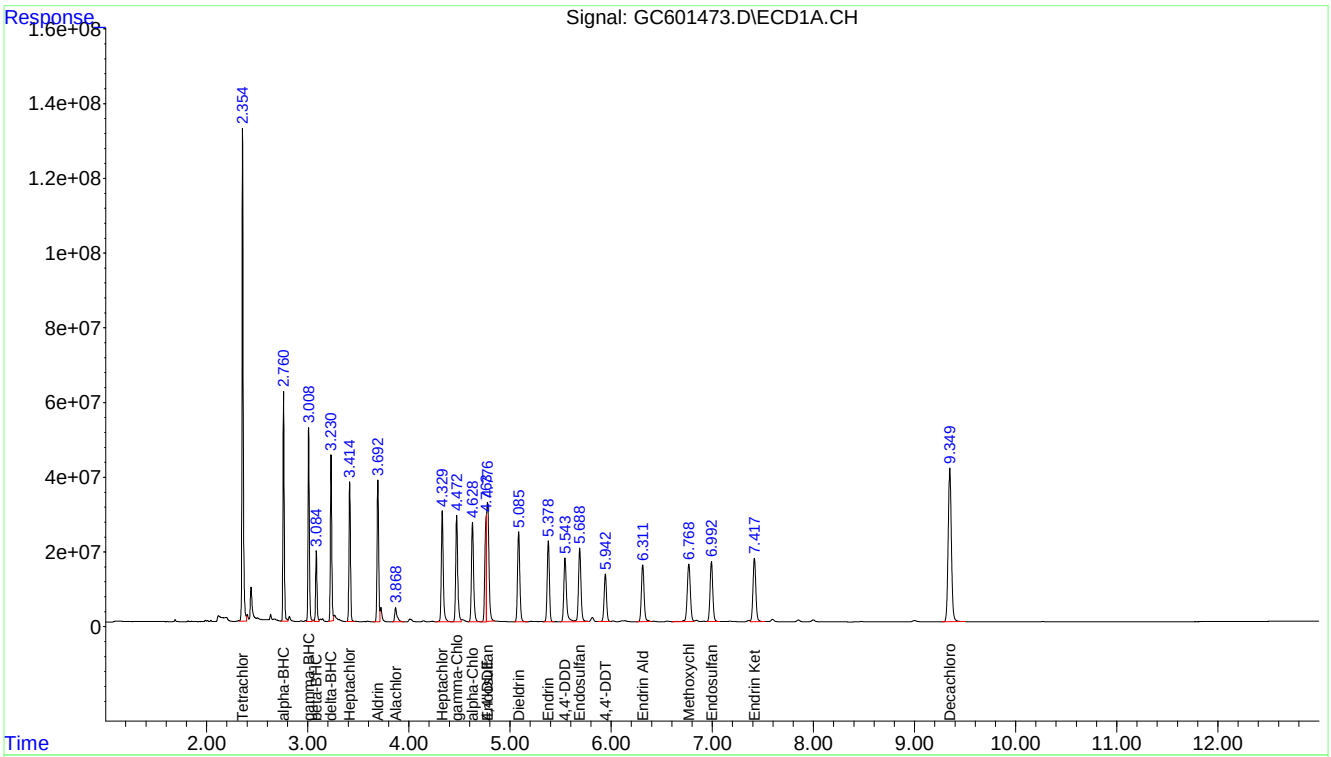
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.354	1096413686	173.660	ng/mLm
2)	alpha-BHC	2.760	531277126	55.159	ng/mL
3)	gamma-BHC (Lindane)	3.008	470443423	56.139	ng/mL
4)	beta-BHC	3.084	178206500	56.424	ng/mL
5)	delta-BHC	3.230	419695488	58.904	ng/mL
6)	Heptachlor	3.415	381044512	55.199	ng/mL
7)	Aldrin	3.693	416683271	56.865	ng/mL
8)	Alachlor	3.869	60579840	46.094	ng/mL
9)	Heptachlor Epoxide	4.329	399968968	53.626	ng/mL
10)	gamma-Chlordane	4.472	400229022	52.913	ng/mL
11)	alpha-Chlordane	4.628	394738926	53.345	ng/mL
12)	Endosulfan I	4.776	489600589	55.388	ng/mLm
13)	4,4'-DDE	4.763	258243473	44.299	ng/mLm
14)	Dieldrin	5.085	378093536	53.816	ng/mL
15)	Endrin	5.378	327156176	56.167	ng/mL
16)	4,4'-DDD	5.543	308178588	55.627	ng/mL
17)	Endosulfan II	5.689	339198174	55.220	ng/mL
18)	4,4'-DDT	5.942	210552901	58.245	ng/mL
19)	Endrin Aldehyde	6.312	279850733	53.590	ng/mL
20)	Methoxychlor	6.768	330325961	56.009	ng/mL
21)	Endosulfan Sulfate	6.992	298648752	55.521	ng/mL
22)	Endrin Ketone	7.417	332652555	59.373	ng/mL
23)	Decachlorobiphenyl	9.349	914817737	172.871	ng/mL
25)	Tetrachloro-m-xylene #2	2.589	2052340636	167.914	ng/mL
26)	alpha-BHC #2	3.097	1006595106	54.659	ng/mL
27)	gamma-BHC (lLindane) #2	3.428	888686515	54.017	ng/mL
28)	beta-BHC #2	3.514	369500944	53.528	ng/mL
29)	delta-BHC #2	3.814	864472852	56.524	ng/mL
30)	Heptachlor #2	3.875	743126005	54.310	ng/mL
31)	Aldrin #2	4.233	924621516	52.691	ng/mL
32)	Alachlor #2	4.137	104862238	49.061	ng/mL
33)	Heptachlor Epoxide #2	4.946	779342864	53.307	ng/mL
34)	gamma-Chlordane #2	5.201	846119779	52.898	ng/mL
35)	alpha-Chlordane #2	5.406	820371502	52.320	ng/mL
36)	Endosulfan I #2	5.474	757507838	52.550	ng/mL
37)	4,4'-DDE #2	5.687	871904848	51.633	ng/mL
38)	Dieldrin #2	5.874	859935696	53.414	ng/mL
39)	Endrin #2	6.329	658900017	57.211	ng/mL
40)	4.4'-DDD #2	6.587	648184068	54.826	ng/mL
41)	Endosulfan II #2	6.676	720286508	52.319	ng/mL
42)	4,4'-DDT #2	7.097	424409528	52.444	ng/mL
43)	Endrin Aldehyde #2	7.245	547711844	52.321	ng/mL
44)	Methoxychlor #2	8.374	226207258	59.385	ng/mL
45)	Endosulfan Sulfate #2	7.723	623436674	55.622	ng/mL
46)	Endrin Ketone #2	8.641	661105092	58.787	ng/mL
47)	Decachlorobiphenyl #2	11.108	1797112394	169.675	ng/mL

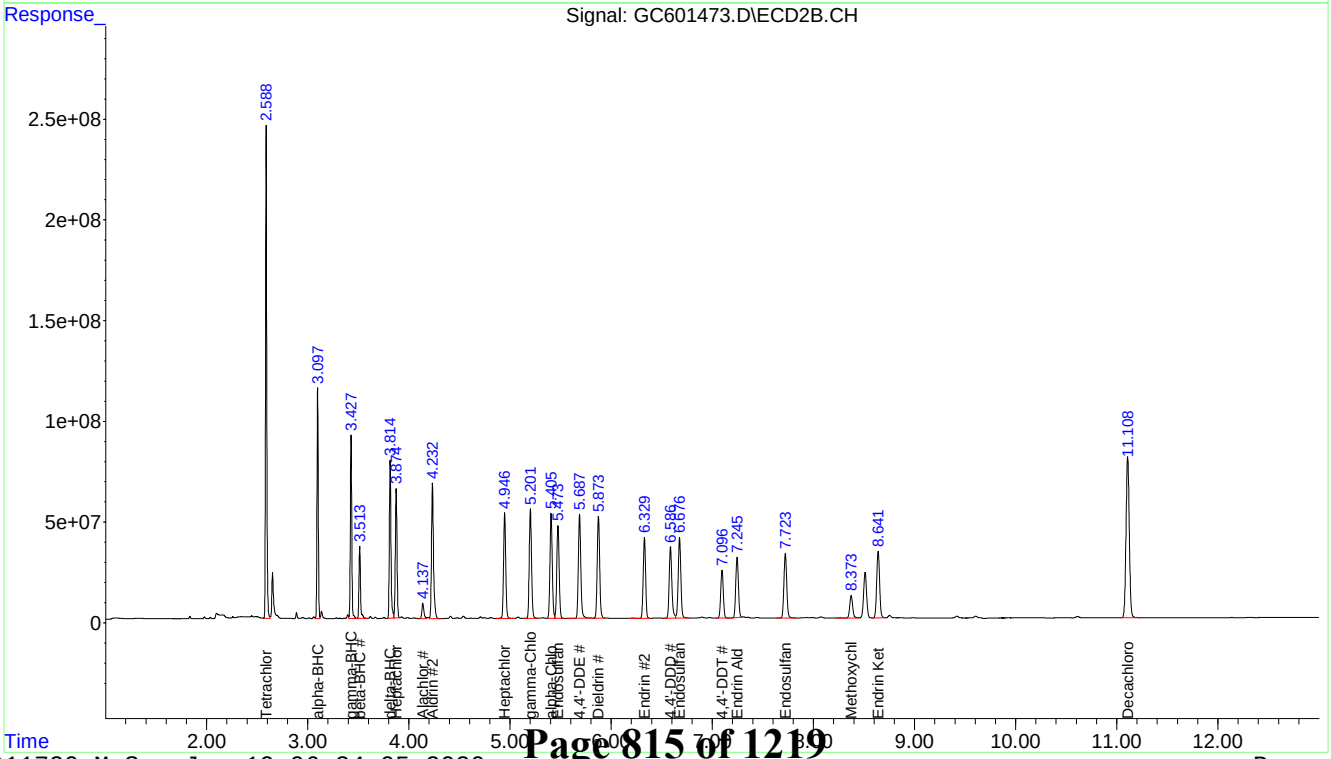
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601473.D
Acq On : 17 Jan 2020 3:46 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-SCV1
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 23 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 19 06:32:29 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 06:26:52 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YB00024 **Laboratory ID:** Y0A2045-SCV1

Sequence: Y0A2045 **Standard ID:** Y19K151

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DIFF	QC LIMIT
4,4'-DDD	50.0	47.8	-4.3	20.00
4,4'-DDD [2C]	50.0	47.9	-4.2	20.00
4,4'-DDE	50.0	48.5	-3.0	20.00
4,4'-DDE [2C]	50.0	51.2	2.5	20.00
4,4'-DDT	50.0	50.8	1.5	20.00
4,4'-DDT [2C]	50.0	50.0	-0.08	20.00
Aldrin	50.0	49.0	-1.9	20.00
Aldrin [2C]	50.0	50.2	0.4	20.00
alpha-BHC	50.0	49.3	-1.4	20.00
alpha-BHC [2C]	50.0	51.3	2.7	20.00
alpha-Chlordane	50.0	48.5	-3.1	20.00
alpha-Chlordane [2C]	50.0	51.2	2.5	20.00
beta-BHC	50.0	50.4	0.8	20.00
beta-BHC [2C]	50.0	48.6	-2.8	20.00
delta-BHC	50.0	49.8	-0.4	20.00
delta-BHC [2C]	50.0	51.2	2.5	20.00
Dieldrin	50.0	49.0	-1.9	20.00
Dieldrin [2C]	50.0	49.1	-1.9	20.00
Endosulfan I	50.0	49.5	-1.1	20.00
Endosulfan I [2C]	50.0	50.3	0.6	20.00
Endosulfan II	50.0	48.7	-2.7	20.00
Endosulfan II [2C]	50.0	47.7	-4.6	20.00
Endosulfan sulfate	50.0	47.7	-4.5	20.00
Endosulfan sulfate [2C]	50.0	43.3	-13.4	20.00
Endrin	50.0	49.7	-0.5	20.00
Endrin [2C]	50.0	48.7	-2.7	20.00
Endrin aldehyde	50.0	48.3	-3.4	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YB00024 **Laboratory ID:** Y0A2045-SCV1

Sequence: Y0A2045 **Standard ID:** Y19K151

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DIFF	QC LIMIT
Endrin aldehyde [2C]	50.0	47.1	-5.8	20.00
Endrin ketone	50.0	47.1	-5.8	20.00
Endrin ketone [2C]	50.0	43.8	-12.4	20.00
gamma-BHC (Lindane)	50.0	48.2	-3.5	20.00
gamma-BHC (Lindane) [2C]	50.0	50.5	1.0	20.00
gamma-Chlordane	50.0	48.2	-3.7	20.00
gamma-Chlordane [2C]	50.0	47.8	-4.4	20.00
Heptachlor	50.0	50.8	1.6	20.00
Heptachlor [2C]	50.0	45.2	-9.7	20.00
Heptachlor epoxide	50.0	48.7	-2.7	20.00
Heptachlor epoxide [2C]	50.0	46.2	-7.6	20.00
Methoxychlor	50.0	51.4	2.7	20.00
Methoxychlor [2C]	50.0	52.0	4.0	20.00

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062456.D\ECD1B.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062456.D\ECD2A.CH
Acq On : 20 Jan 2020 4:31 pm Operator: CM
Sample : SEQ-SCV1 Inst : GC DUAL E
Misc : QBPEST5-012020A 50 ICV Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 17:17 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 17:17:02 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.93	501544	1377562	168.698	167.515
	Spiked Amount 200.000	Range 30 - 150		Recovery =		84.35%	83.76%
23) SA	Decachlorobiphen	12.30	10.62	304830	898278	149.477	150.006
	Spiked Amount 200.000	Range 30 - 150		Recovery =		74.74%	75.00%
	Target Compounds						
2) M	alpha-BHC	3.80	3.40	101988	275036	49.315	51.331
3) M	gamma-BHC (Linda	4.20	3.69	86180	229068	48.232	50.483
4) M	beta-BHC	4.30	3.78	46720	122596	50.378	48.586
5) M	delta-BHC	4.65	3.95	81716	225956	49.820	51.229
6) M	Heptachlor	4.72	4.18	69462	214916	50.819	45.171
7) M	Aldrin	5.15	4.51	105626	271100	49.049	50.213
8) M	Alachlor	5.01	4.68	10452	46024	47.790	49.164
9) M	Heptachlor Epoxi	5.96	5.24	88614	237288	48.652	46.182
10) M	gamma-Chlordane	6.24	5.40	91800	245280	48.159	47.791
11) M	alpha-Chlordane	6.47	5.72	98224	246766	48.452	51.243
12) M	Endosulfan I	6.56	5.75	90036	286314	49.458	50.294
13) M	4,4'-DDE	6.76	5.72	100102	246766	48.509	51.243
14) M	Dieldrin	7.00	6.10	88866	240808	49.047	49.069
15) M	Endrin	7.50	6.43	71792	201516	49.745	48.674
16) M	4,4'-DDD	7.74	6.59	51482	166344	47.840	47.878
17) M	Endosulfan II	7.87	6.77	75450	189536	48.664	47.696
18) M	4,4'-DDT	8.29	7.03	39418	140570	50.751	49.961
19) M	Endrin Aldehyde	8.48	7.44	64470	186354	48.290	47.075
20) M	Methoxychlor	9.61	7.90	21768	73170	51.368	52.010
21) M	Endosulfan sulfa	8.99	8.16	67238	197454	47.737	43.321
22) M	Endrin Ketone	9.96	8.63	64096	199608	47.101	43.787

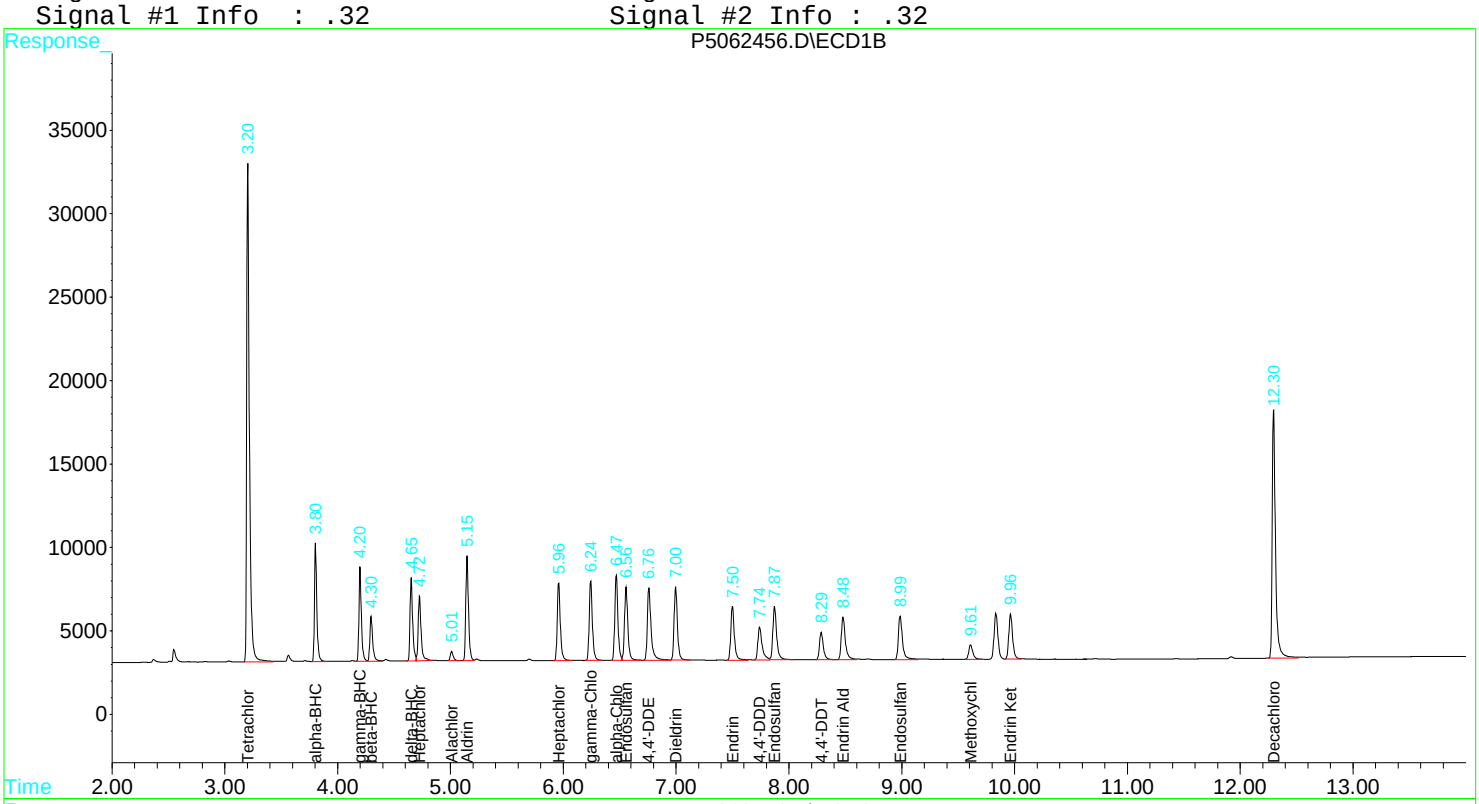
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

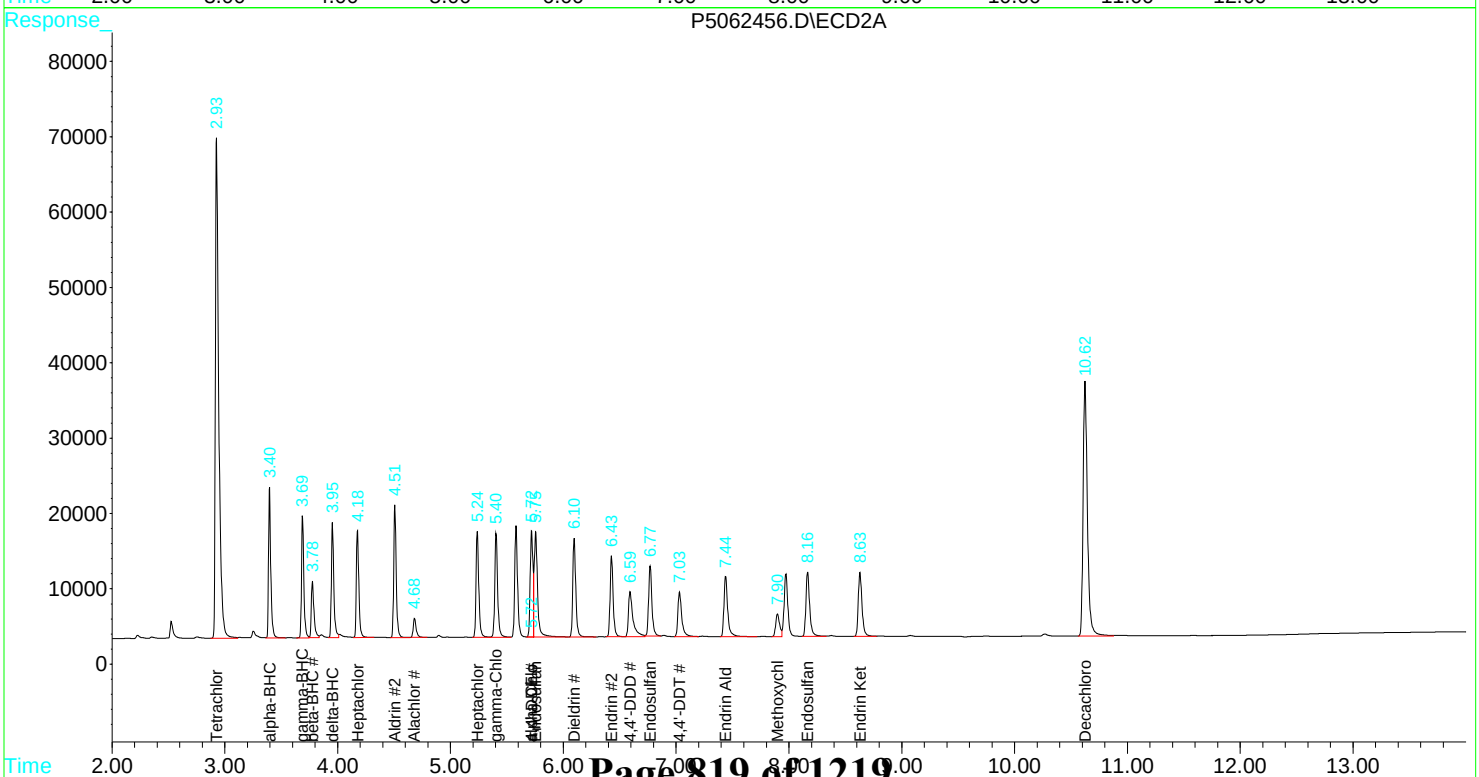
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062456.D\ECD1B.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062456.D\ECD2A.CH
Acq On : 20 Jan 2020 4:31 pm Operator: CM
Sample : SEQ-SCV1 Inst : GC DUAL E
Misc : QBPEST5-012020A 50 ICV Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 17:17 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 17:17:02 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Breakdown Report

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Sequence:	Y0A2002	Laboratory ID:	Y0A2002-PEM1
Analyzed:	01/17/2020 07:49	Instrument ID:	GCECD6
		File ID:	GC601446.D

Column Number: 1

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	10.47	15
Endrin	7.15	15

Column Number: 2

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	9.85	15
Endrin	7.54	15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601446.D
Acq On : 17 Jan 2020 7:49 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-PEM1
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 1 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 17 08:07:07 2020
Quant Method : C:\msdchem\PS6121619.M
Quant Title : Pesticides 8081/608
QLast Update : Thu Dec 19 07:19:53 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

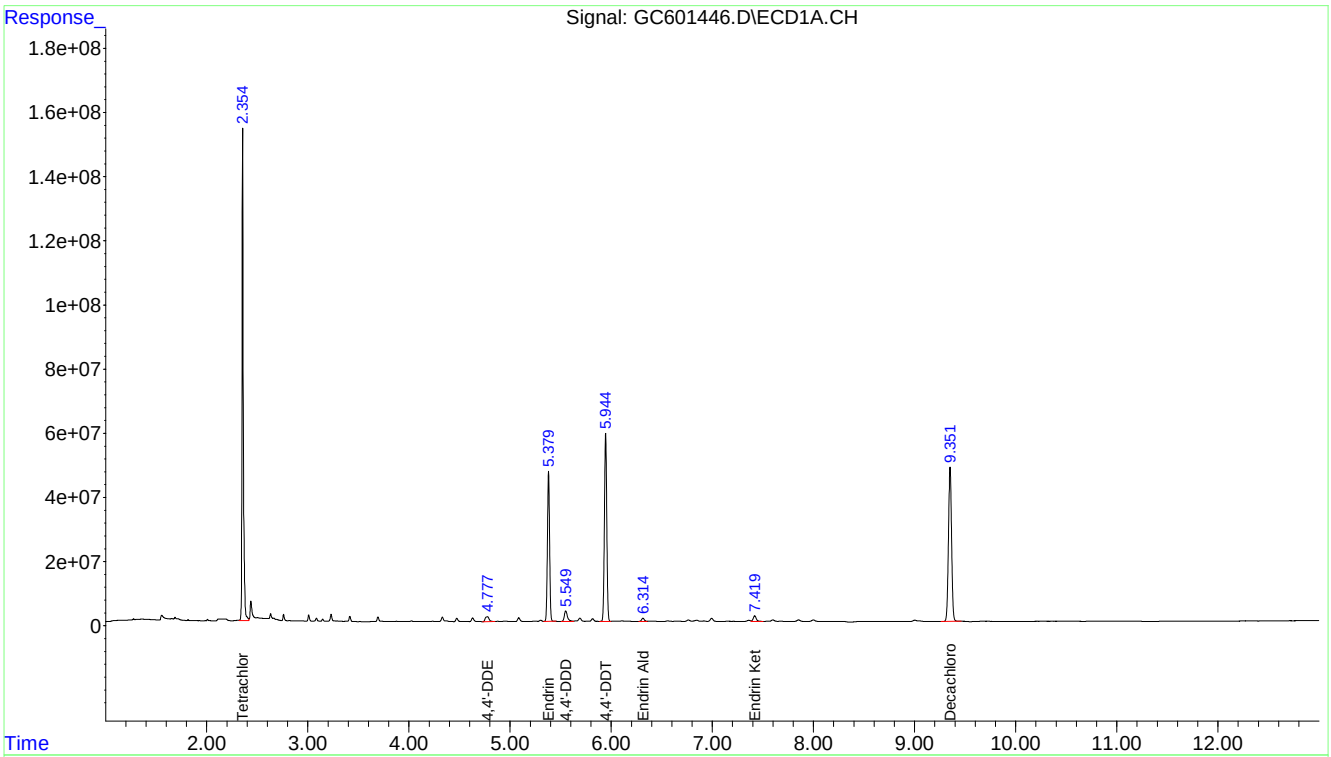
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.354	1370477454	197.112	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mLd
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mLd
4)	beta-BHC	0.000	0	N.D.	ng/mLd
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mLd
7)	Aldrin	0.000	0	N.D.	ng/mLd
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mLd
10)	gamma-Chlordane	0.000	0	N.D.	ng/mLd
11)	alpha-Chlordane	0.000	0	N.D.	ng/mLd
12)	Endosulfan I	0.000	0	N.D.	ng/mLd
13)	4,4'-DDE	4.778	41467016	5.619	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mLd
15)	Endrin	5.380	689106252	112.700	ng/mL
16)	4,4'-DDD	5.550	69084063	12.628	ng/mL
17)	Endosulfan II	0.000	0	N.D.	ng/mLd
18)	4,4'-DDT	5.945	945673226	289.876	ng/mL
19)	Endrin Aldehyde	6.314	17278114	3.250	ng/mL
20)	Methoxychlor	0.000	0	N.D.	ng/mLd
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mLd
22)	Endrin Ketone	7.419	35762880	5.723	ng/mL
23)	Decachlorobiphenyl	9.351	1032936377	180.309	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	2635601656	188.729	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mLd
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mLd
28)	beta-BHC #2	0.000	0	N.D.	ng/mLd
29)	delta-BHC #2	0.000	0	N.D.	ng/mLd
30)	Heptachlor #2	0.000	0	N.D.	ng/mLd
31)	Aldrin #2	0.000	0	N.D.	ng/mLd
32)	Alachlor #2	0.000	0	N.D.	ng/mLd
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mLd
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mLd
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mLd
36)	Endosulfan I #2	0.000	0	N.D.	ng/mLd
37)	4,4'-DDE #2	5.686	52697296	3.212	ng/mL
38)	Dieldrin #2	0.000	0	N.D.	ng/mLd
39)	Endrin #2	6.329	1385562732	113.420	ng/mL
40)	4.4'-DDD #2	6.588	156584086	13.052	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mLd
42)	4,4'-DDT #2	7.096	1914650956	252.080	ng/mL
43)	Endrin Aldehyde #2	7.245	34858890	3.341	ng/mLm
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mLd
46)	Endrin Ketone #2	8.641	78132500	6.106	ng/mL
47)	Decachlorobiphenyl #2	11.110	2112393784	184.714	ng/mL

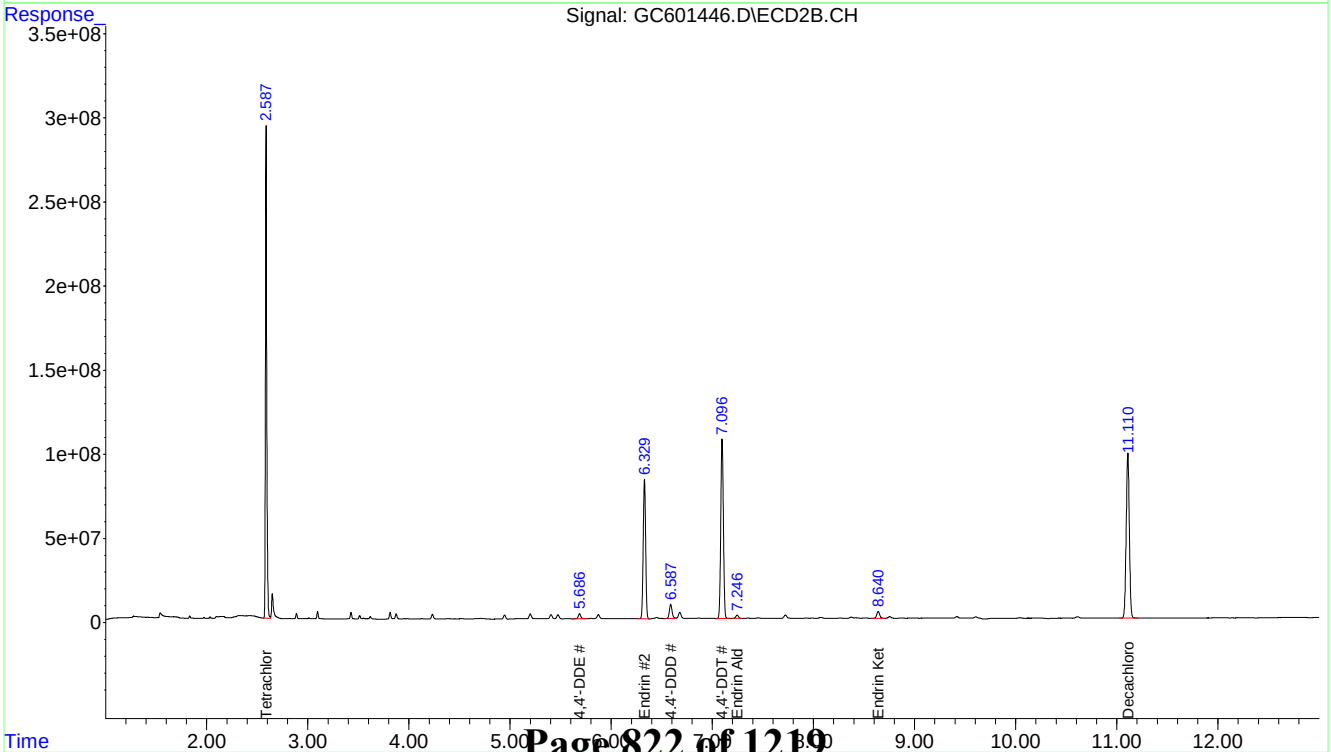
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\011720A\
Data File : GC601446.D
Acq On : 17 Jan 2020 7:49 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-PEM1
Misc : QBPST6011720A
InstName : GCECD6
ALS Vial : 1 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Jan 17 08:07:07 2020
Quant Method : C:\msdchem\PS6121619.M
Quant Title : Pesticides 8081/608
QLast Update : Thu Dec 19 07:19:53 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Breakdown Report

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Sequence:	Y0A2045	Laboratory ID:	Y0A2045-PEM1
Analyzed:	01/20/2020 14:07	Instrument ID:	GC Dual E
		File ID:	P5062448.D

Column Number: 1

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	9.99	15
Endrin	8.71	15

Column Number: 2

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	8.61	15
Endrin	9.12	15

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062448.D\ECD1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062448.D\ECD2A.CH
Acq On : 20 Jan 2020 2:07 pm Operator: CM
Sample : SEQ-PEM1 Inst : GC DUAL E
Misc : QBPEST5-012020A Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 17:28 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 17:17:02 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.94	644242	1802728	216.696	219.217
	Spiked Amount 200.000	Range 30 - 150		Recovery =		108.35%	109.61%
23) SA	Decachlorobiphen	12.30	10.65f	411648	1198122	201.856	200.078
	Spiked Amount 200.000	Range 30 - 150		Recovery =		100.93%	100.04%
	Target Compounds						
2) M	alpha-BHC	0.00	0.00	0	0	N.D. d	N.D. d
3) M	gamma-BHC (Linda	0.00	0.00	0	0	N.D. d	N.D. d
4) M	beta-BHC	0.00	0.00	0	0	N.D. d	N.D. d
5) M	delta-BHC	0.00	0.00	0	0	N.D. d	N.D. d
6) M	Heptachlor	0.00	0.00	0	0	N.D. d	N.D. d
7) M	Aldrin	0.00	0.00	0	0	N.D. d	N.D. d
8) M	Alachlor	0.00	0.00	0	0	N.D. d	N.D. d
9) M	Heptachlor Epoxi	0.00	0.00	0	0	N.D. d	N.D. d
10) M	gamma-Chlordane	0.00	0.00	0	0	N.D. d	N.D. d
11) M	alpha-Chlordane	0.00	0.00	0	0	N.D. d	N.D. d
12) M	Endosulfan I	0.00	0.00	0	0	N.D. d	N.D. d
13) M	4,4'-DDE	6.77	5.75f	8270	18504	4.008	3.842m
14) M	Dieldrin	0.00	0.00	0	0	N.D. d	N.D. d
15) M	Endrin	7.51	6.46f	148346	401660	102.790	97.017m
16) M	4,4'-DDD	7.75	6.63f	11304	32756	10.504m	9.428m
17) M	Endosulfan II	0.00	0.00	0	0	N.D. d	N.D. d
18) M	4,4'-DDT	8.29	7.06f	176442	543948	227.171	193.328m
19) M	Endrin Aldehyde	8.49	7.47f	4172	12672	3.125m	3.201m
20) M	Methoxychlor	0.00	0.00	0	0	N.D. d	N.D. d
21) M	Endosulfan sulfa	0.00	0.00	0	0	N.D. d	N.D. d
22) M	Endrin Ketone	9.97	8.66f	9966	27630	7.324	6.061m

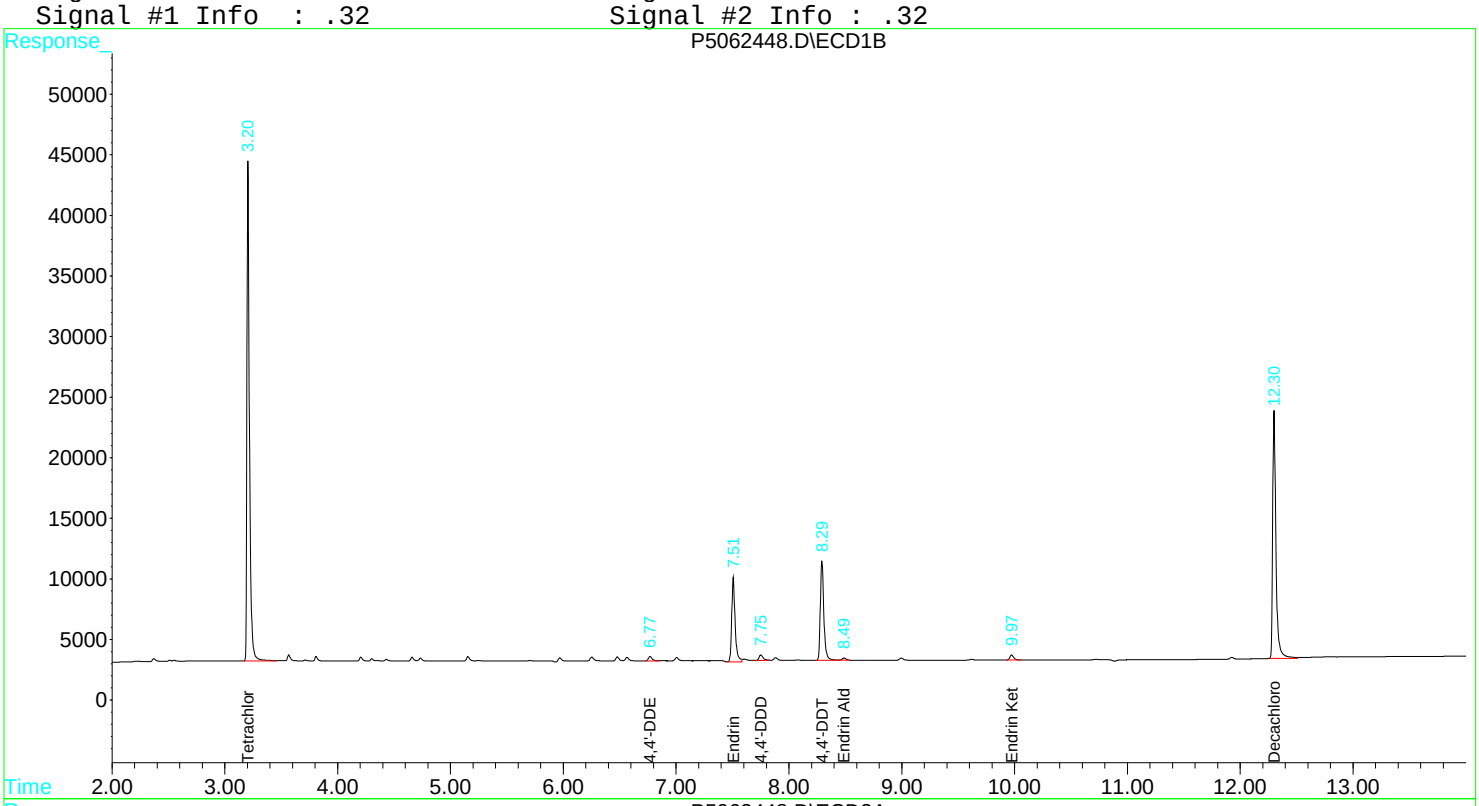
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062448.D P5012020.M Mon Jan 20 17:41:58 2020 Page 1

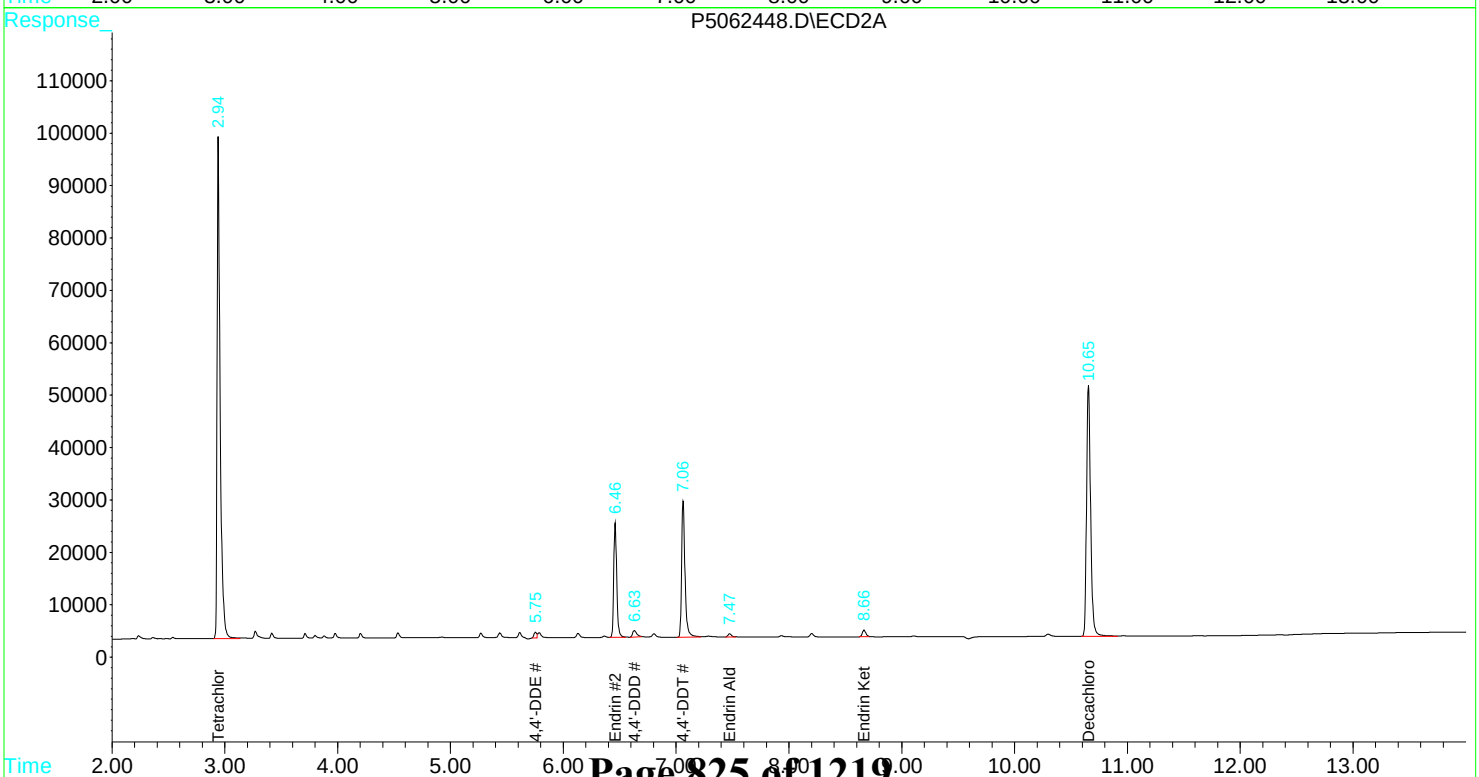
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\012020A\P5062448.D\ECD1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\012020A\P5062448.D\ECD2A.CH
Acq On : 20 Jan 2020 2:07 pm Operator: CM
Sample : SEQ-PEM1 Inst : GC DUAL E
Misc : QBPEST5-012020A Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Jan 20 17:28 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Mon Jan 20 17:17:02 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Breakdown Report

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Sequence:	Y0B1124	Laboratory ID:	Y0B1124-PEM1
Analyzed:	02/10/2020 07:21	Instrument ID:	GC Dual E
		File ID:	P5062531.D

Column Number: 1

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	8.28	15
Endrin	5.14	15

Column Number: 2

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	10.20	15
Endrin	6.17	15

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062531.D\ECD1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062531.D\ECD2A.CH
Acq On : 10 Feb 2020 7:21 am Operator: CM
Sample : SEQ-PEM1 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 7:54 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.93	830938	2176832	279.493	264.709
	Spiked Amount 200.000	Range 30 - 150		Recovery =		139.75%	132.35%
23) SA	Decachlorobiphen	12.29	10.64	551284	1475302	270.328	246.365
	Spiked Amount 200.000	Range 30 - 150		Recovery =		135.16%	123.18%
	Target Compounds						
2) M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3) M	gamma-BHC (Linda	0.00	0.00	0	0	N.D.	N.D.
4) M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5) M	delta-BHC	0.00	0.00	0	0	N.D. d	N.D. d
6) M	Heptachlor	0.00	0.00	0	0	N.D. d	N.D. d
7) M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8) M	Alachlor	0.00	0.00	0	0	N.D.	N.D.
9) M	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
10) M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12) M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D. d
13) M	4,4'-DDE	6.76	5.74f	3100	34056	1.502m	7.072 #
14) M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15) M	Endrin	7.50	6.44f	168042	464988	116.438	112.313
16) M	4,4'-DDD	7.74	6.61f	13322	38668	12.379	11.130
17) M	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
18) M	4,4'-DDT	8.29	7.04	181960	640148	234.276	227.519
19) M	Endrin Aldehyde	8.48	7.46f	888	3922	0.665m	0.991m#
20) M	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21) M	Endosulfan sulfa	0.00	0.00	0	0	N.D.	N.D.
22) M	Endrin Ketone	9.97	8.65f	8216	26630	6.038	5.842

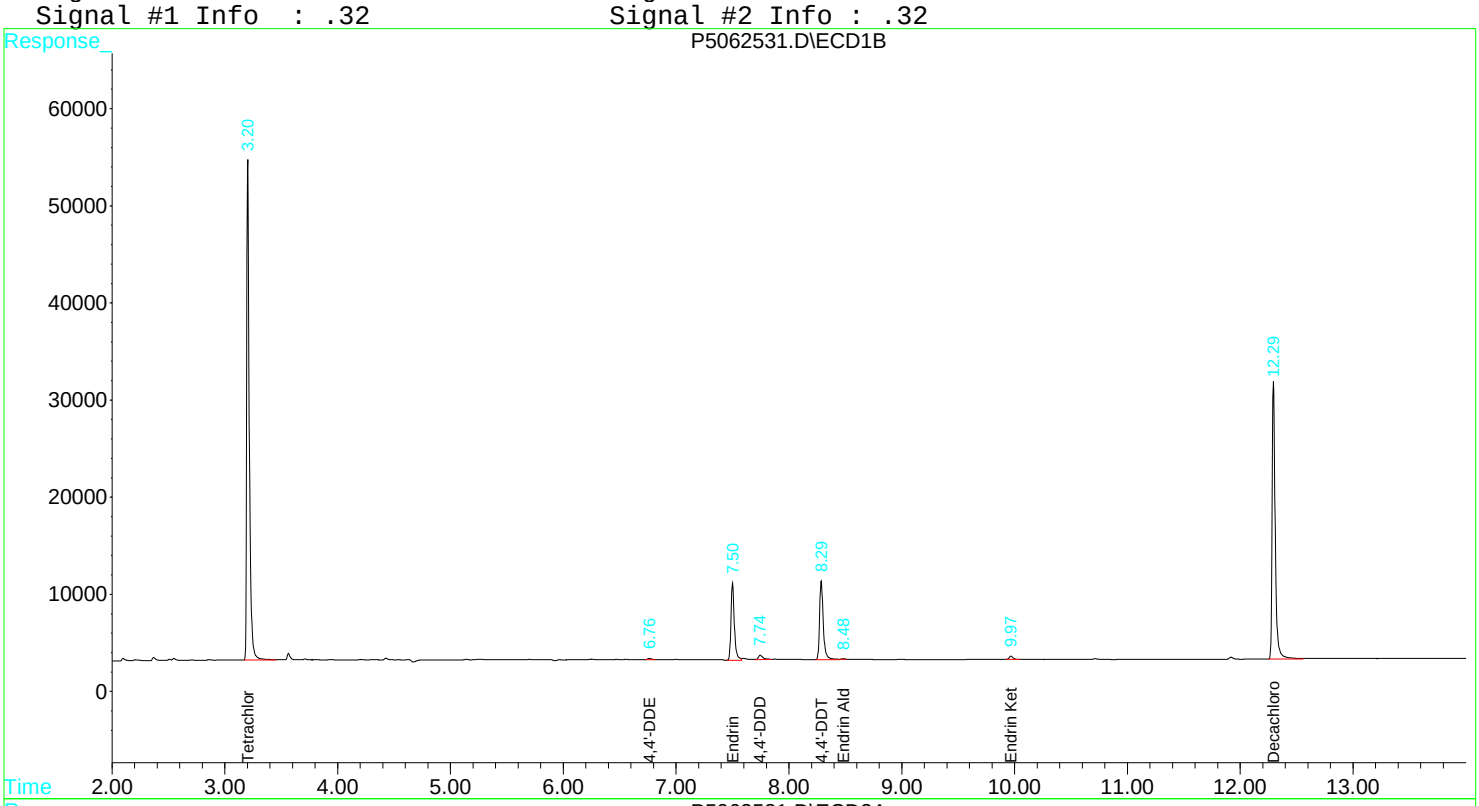
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

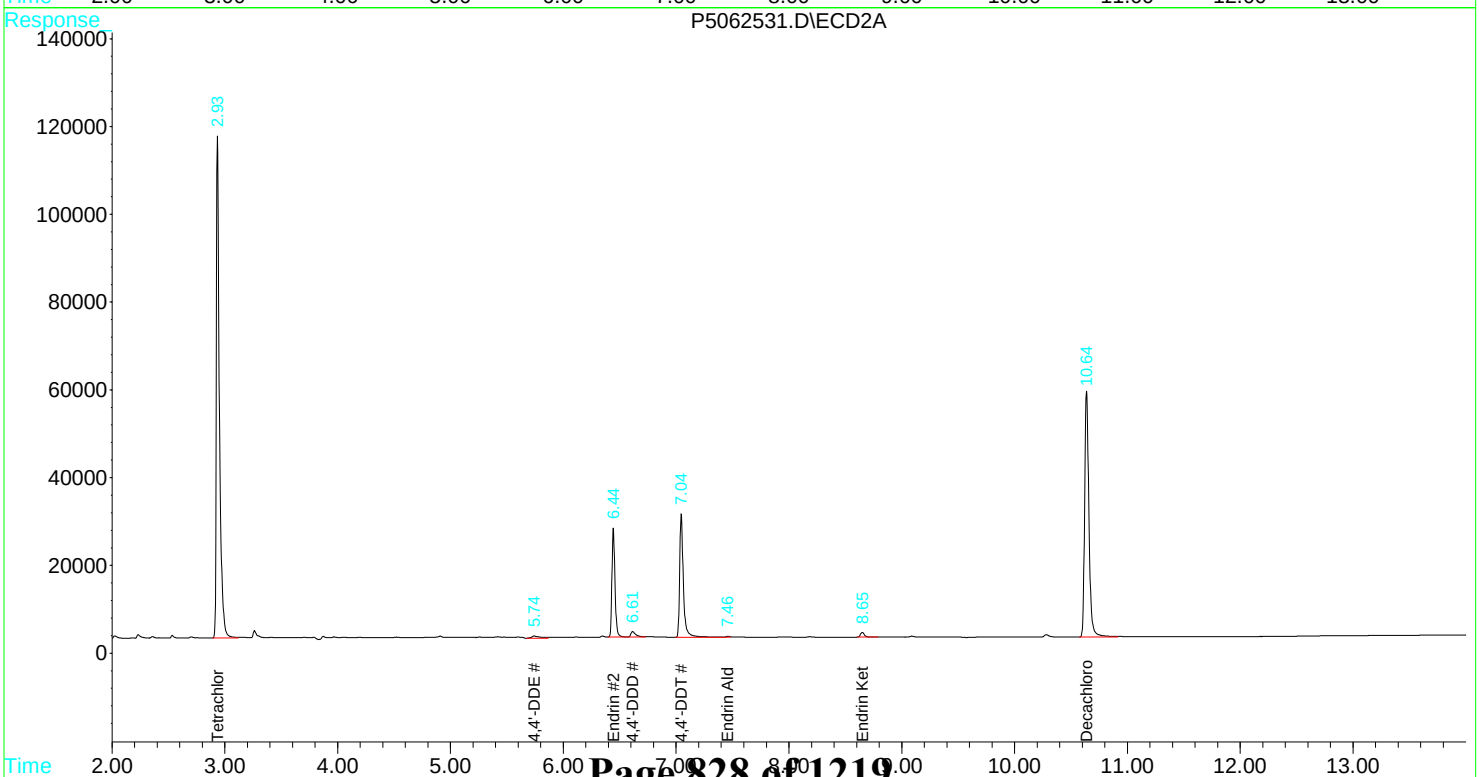
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062531.D\ECD1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062531.D\ECD2A.CH
Acq On : 10 Feb 2020 7:21 am Operator: CM
Sample : SEQ-PEM1 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 7:54 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Breakdown Report

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Sequence:	Y0B1201	Laboratory ID:	Y0B1201-PEM1
Analyzed:	02/11/2020 08:57	Instrument ID:	GCECD6
		File ID:	P60000429.D

Column Number: 1

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	14.17	15
Endrin	9.88	15

Column Number: 2

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	14.42	15
Endrin	11.12	15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000429.D
Acq On : 11 Feb 2020 8:57 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-PEM1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 1 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 09:15:02 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

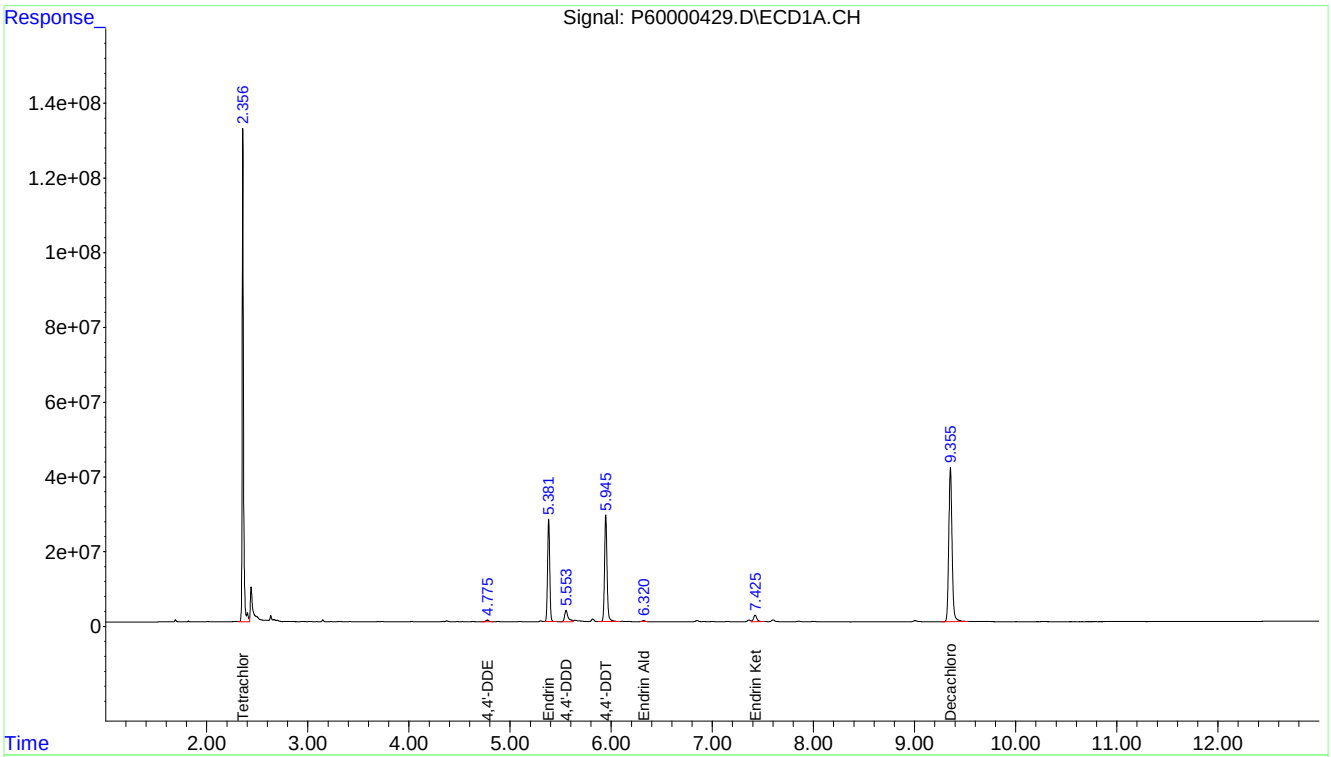
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.356	1160129467	183.752	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mL
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mL
4)	beta-BHC	0.000	0	N.D.	ng/mLd
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mL
7)	Aldrin	0.000	0	N.D.	ng/mL
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mL
10)	gamma-Chlordane	0.000	0	N.D.	ng/mL
11)	alpha-Chlordane	0.000	0	N.D.	ng/mL
12)	Endosulfan I	0.000	0	N.D.	ng/mLd
13)	4,4'-DDE	4.776	9038818	1.551	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	5.382	409035520	70.224	ng/mL
16)	4,4'-DDD	5.553	71661946	12.935	ng/mLm
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	5.946	488894996	135.242	ng/mL
19)	Endrin Aldehyde	6.320	4884980	0.935	ng/mLm
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mL
22)	Endrin Ketone	7.424	39971616	7.134	ng/mL
23)	Decachlorobiphenyl	9.355	936355204	176.941	ng/mL
25)	Tetrachloro-m-xylene #2	2.589	2393760456	195.847	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mL
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mL
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mL
36)	Endosulfan I #2	0.000	0	N.D.	ng/mL
37)	4,4'-DDE #2	5.692	18771284	1.112	ng/mLm
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	6.328	911631048	79.155	ng/mL
40)	4.4'-DDD #2	6.589	173802135	14.701	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mLd
42)	4,4'-DDT #2	7.096	1142811252	157.373	ng/mL
43)	Endrin Aldehyde #2	7.249	10553334	1.008	ng/mLm
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	8.642	103457861	9.200	ng/mLm
47)	Decachlorobiphenyl #2	11.109	2002474746	189.065	ng/mL

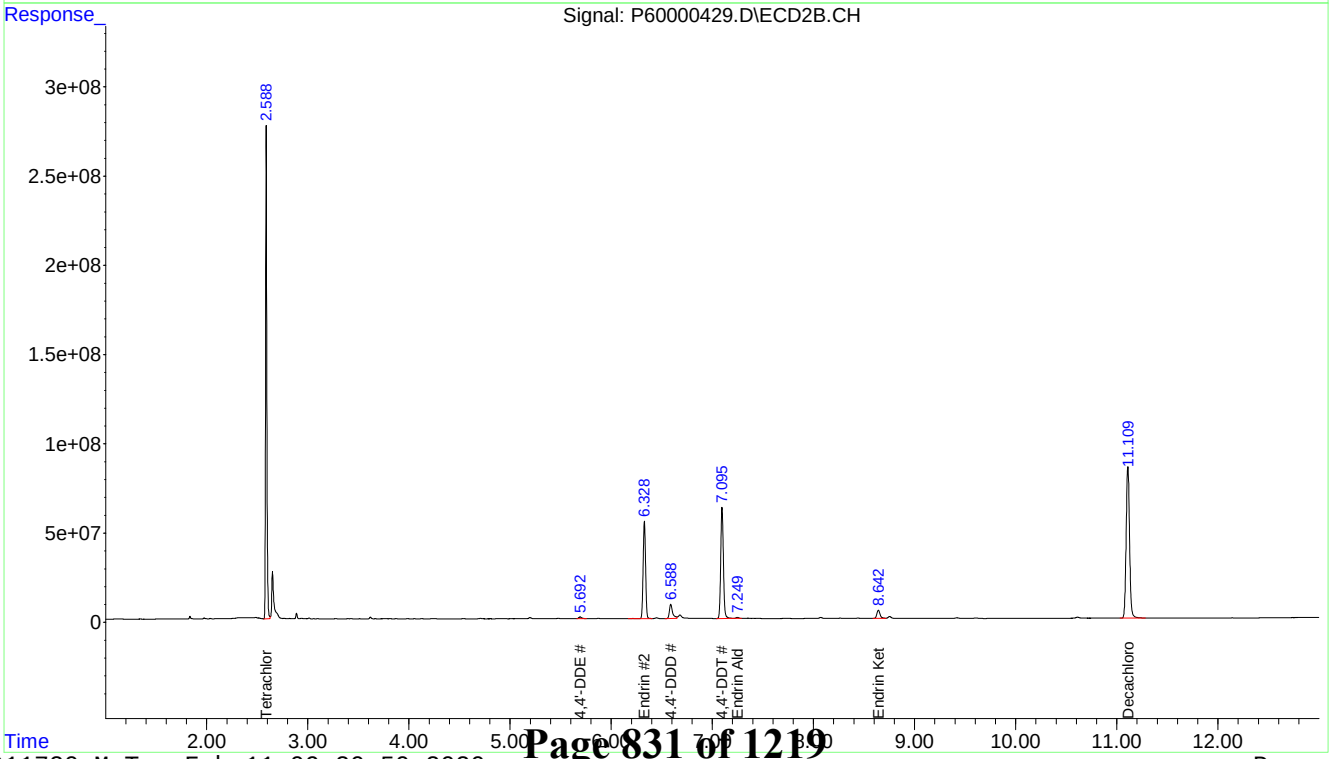
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000429.D
Acq On : 11 Feb 2020 8:57 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-PEM1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 1 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 09:15:02 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Breakdown Report

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Sequence:	Y0B1401	Laboratory ID:	Y0B1401-PEM1
Analyzed:	02/13/2020 06:29	Instrument ID:	GCECD6
		File ID:	P60000523.D

Column Number: 1

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	14.09	15
Endrin	8.51	15

Column Number: 2

Analyte	% Breakdown	Breakdown Limit
4,4'-DDT	11.74	15
Endrin	9.14	15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000523.D
Acq On : 13 Feb 2020 6:29 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-PEM1
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 1 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 13 06:48:12 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

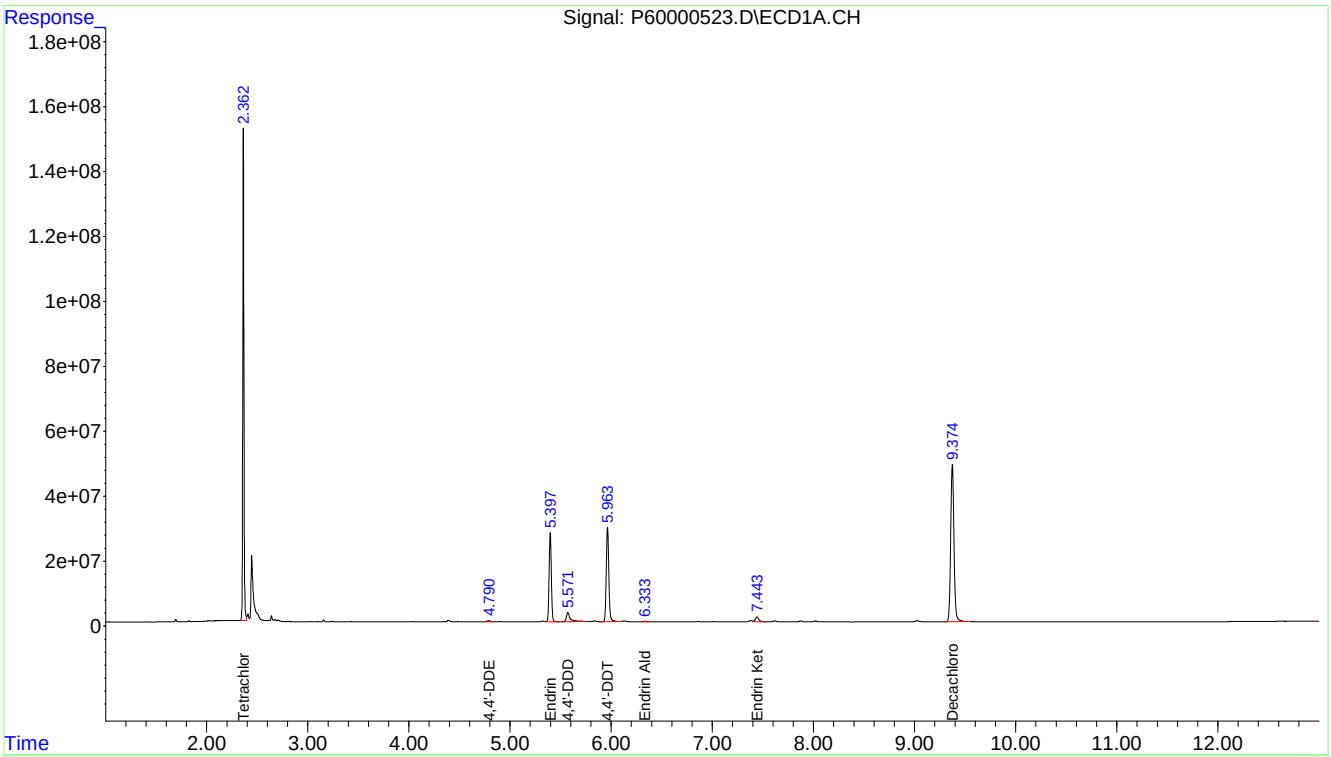
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Tetrachloro-m-Xylene	2.362	1190467351	188.557	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mL
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mLd
4)	beta-BHC	0.000	0	N.D.	ng/mLd
5)	delta-BHC	0.000	0	N.D.	ng/mLd
6)	Heptachlor	0.000	0	N.D.	ng/mLd
7)	Aldrin	0.000	0	N.D.	ng/mLd
8)	Alachlor	0.000	0	N.D.	ng/mLd
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mLd
10)	gamma-Chlordane	0.000	0	N.D.	ng/mLd
11)	alpha-Chlordane	0.000	0	N.D.	ng/mLd
12)	Endosulfan I	0.000	0	N.D.	ng/mLd
13)	4,4'-DDE	4.790	6839283	1.173	ng/mLm
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	5.397	417903600	71.747	ng/mL
16)	4,4'-DDD	5.571	76760640	13.856	ng/mL
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	5.964	509895928	141.051	ng/mL
19)	Endrin Aldehyde	6.333	3304148	0.633	ng/mLm
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mL
22)	Endrin Ketone	7.442	35547844	6.345	ng/mL
23)	Decachlorobiphenyl	9.375	1099724406	207.813	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	2415782665	197.649	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mL
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mL
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mL
36)	Endosulfan I #2	0.000	0	N.D.	ng/mL
37)	4,4'-DDE #2	5.695	17732566	1.050	ng/mLm
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	6.332	937012960	81.359	ng/mL
40)	4.4'-DDD #2	6.594	143966430	12.177	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mLd
42)	4,4'-DDT #2	7.101	1215389660	169.635	ng/mL
43)	Endrin Aldehyde #2	7.251	6297395	0.602	ng/mLm
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	8.649	87931614	7.819	ng/mL
47)	Decachlorobiphenyl #2	11.117	2292961100	216.491	ng/mL

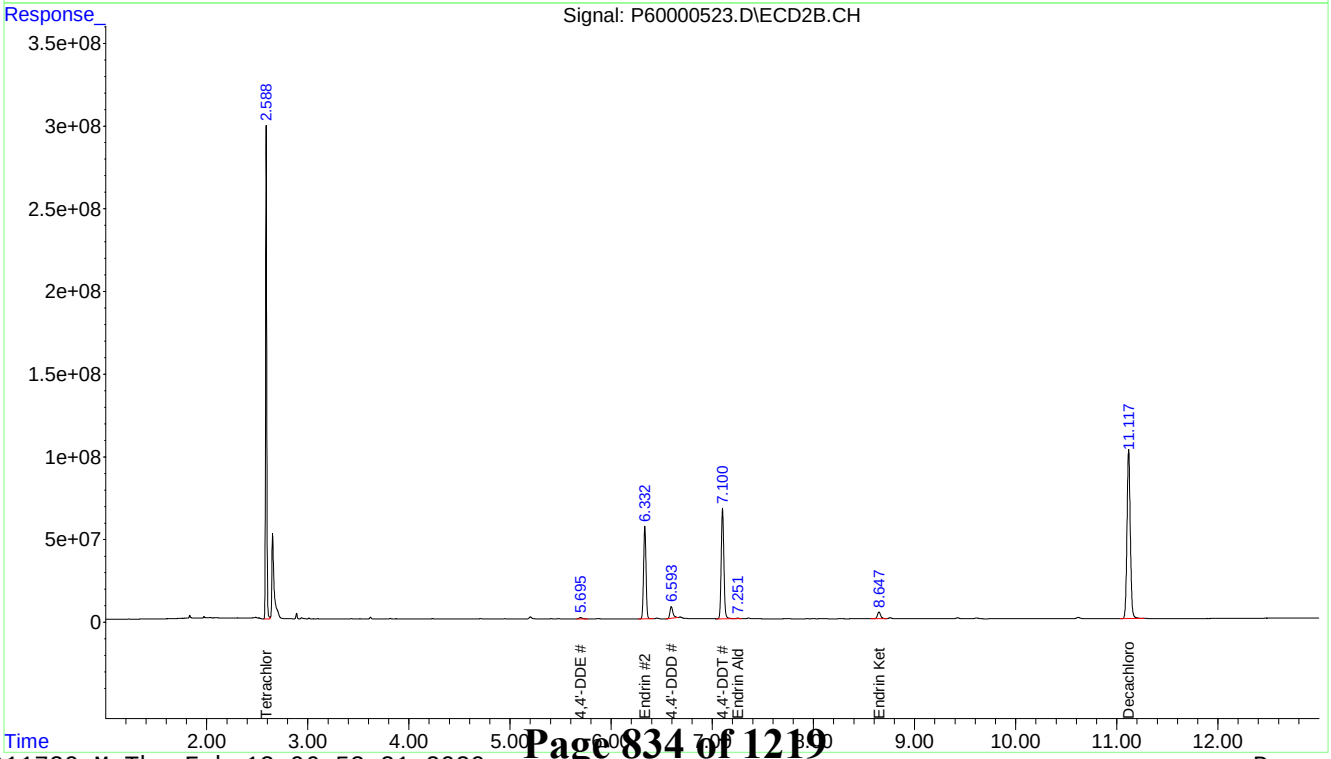
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000523.D
Acq On : 13 Feb 2020 6:29 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-PEM1
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 1 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 13 06:48:12 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GC Dual E	Calibration:	YB00024
Lab File ID:	P5062532.D	Calibration Date:	01/20/20 08:04
Sequence:	Y0B1124	Injection Date:	02/10/20
Lab Sample ID:	Y0B1124-CCV1	Injection Time:	07:39

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDD	A	50.0	50.4	1076.138	1084.8		0.8	20
4,4'-DDD [2C]	A	50.0	52.4	3474.353	3643.2		4.9	20
4,4'-DDE	A	50.0	55.4	2063.587	2284.72		10.7	20
4,4'-DDE [2C]	A	50.0	55.8	4815.633	5378.88		11.7	20
4,4'-DDT	L	50.0	55.4	776.6917	860.76		10.8	20
4,4'-DDT [2C]	L	50.0	54.1	2813.598	3045.32		8.2	20
Aldrin	A	50.0	52.4	2153.493	2255.56		4.7	20
Aldrin [2C]	A	50.0	53.9	5399.01	5821.8		7.8	20
alpha-BHC	A	50.0	53.7	2068.097	2219.28		7.3	20
alpha-BHC [2C]	A	50.0	56.2	5358.04	6024.16		12.4	20
alpha-Chlordane	L	50.0	51.8	2027.252	2101.44		3.7	20
alpha-Chlordane [2C]	A	50.0	58.7	4815.633	5656.76		17.5	20
beta-BHC	A	50.0	54.1	927.39	1002.68		8.1	20
beta-BHC [2C]	A	50.0	53.6	2408.177	2707.4		12.4	20
delta-BHC	A	50.0	56.8	1640.23	1864.24		13.7	20
delta-BHC [2C]	A	50.0	57.0	4410.682	5029.32		14.0	20
Dieldrin	L	50.0	52.0	1811.86	1882.72		3.9	20
Dieldrin [2C]	A	50.0	52.5	4907.54	5156.16		5.1	20
Endosulfan I	A	50.0	53.2	1820.465	1937.96		6.5	20
Endosulfan I [2C]	A	50.0	52.6	5911.517	5967.12		5.3	20
Endosulfan II	L	50.0	51.0	1550.422	1581.12		2.0	20
Endosulfan II [2C]	L	50.0	51.6	3973.828	4100.72		3.2	20
Endosulfan sulfate	L	50.0	51.0	1408.512	1436.08		2.0	20
Endosulfan sulfate [2C]	L	50.0	46.9	4286.683	4276.88		-6.2	20
Endrin	L	50.0	54.3	1443.188	1567.48		8.6	20
Endrin [2C]	L	50.0	52.7	4140.108	4365.08		5.4	20
Endrin aldehyde	L	50.0	52.2	1335.052	1394.6		4.5	20
Endrin aldehyde [2C]	A	50.0	50.0	3958.66	3954.88		-0.1	20
Endrin ketone	L	50.0	50.6	1360.813	1376.12		1.1	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GC Dual E	Calibration:	YB00024
Lab File ID:	P5062532.D	Calibration Date:	01/20/20 08:04
Sequence:	Y0B1124	Injection Date:	02/10/20
Lab Sample ID:	Y0B1124-CCV1	Injection Time:	07:39

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin ketone [2C]	L	50.0	48.1	4272.847	4383.36		-3.8	20
gamma-BHC (Lindane)	A	50.0	51.1	1786.795	1824.68		2.1	20
gamma-BHC (Lindane) [2C]	A	50.0	55.3	4537.5	5021.24		10.7	20
gamma-Chlordane	A	50.0	49.9	1906.168	1902.84		-0.2	20
gamma-Chlordane [2C]	A	50.0	50.8	5371.015	5189.88		1.7	20
Heptachlor	L	50.0	55.3	1366.857	1512.8		10.7	20
Heptachlor [2C]	A	50.0	49.2	4518.895	4679.12		3.5	20
Heptachlor epoxide	L	50.0	54.0	1821.368	1965.96		7.9	20
Heptachlor epoxide [2C]	A	50.0	49.1	4879.16	5042.4		-1.9	20
Methoxychlor	L	50.0	57.4	423.7633	486.36		14.8	20
Methoxychlor [2C]	A	50.0	59.6	1406.852	1675.88		19.1	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)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062532.D\ECD1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062532.D\ECD2A.CH
Acq On : 10 Feb 2020 7:39 am Operator: CM
Sample : SEQ-CCV1 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 7:57 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.92	521110	1377684	175.280	167.530
	Spiked Amount 200.000	Range 30 - 150		Recovery =		87.64%	83.77%
23) SA	Decachlorobiphen	12.29	10.62	339280	910810	166.370	152.099
	Spiked Amount 200.000	Range 30 - 150		Recovery =		83.19%	76.05%
	Target Compounds						
2) M	alpha-BHC	3.80	3.39	110964	301208	53.655	56.216
3) M	gamma-BHC (Linda	4.20	3.69	91234	251062	51.060	55.330
4) M	beta-BHC	4.29	3.78	50134	135370	54.059	53.648
5) M	delta-BHC	4.65	3.95	93212	251466	56.829	57.013
6) M	Heptachlor	4.72	4.17	75640	233956	55.339	49.173
7) M	Aldrin	5.15	4.51	112778	291090	52.370	53.915
8) M	Alachlor	5.01	4.68	11046	53934	50.774	57.614
9) M	Heptachlor Epoxi	5.96	5.24	98298	252120	53.969	49.069
10) M	gamma-Chlordane	6.24	5.40	95142	259494	49.913	50.830
11) M	alpha-Chlordane	6.47	5.58	105072	282838	51.830	58.733
12) M	Endosulfan I	6.55	5.75	96898	298356	53.227	52.628
13) M	4,4'-DDE	6.76	5.72	114236	268944	55.358	55.848
14) M	Dieldrin	6.99	6.10	94136	257808	51.955	52.533
15) M	Endrin	7.50	6.43	78374	218254	54.306	52.717
16) M	4,4'-DDD	7.74	6.59	54240	182160	50.402	52.430
17) M	Endosulfan II	7.87	6.77	79056	205036	50.990	51.597
18) M	4,4'-DDT	8.28	7.03	43038	152266	55.412	54.118
19) M	Endrin Aldehyde	8.48	7.44	69730	197744	52.230	49.952
20) M	Methoxychlor	9.61	7.90	24318	83794	57.386	59.561
21) M	Endosulfan sulfa	8.98	8.17	71804	213844	50.979	46.917
22) M	Endrin Ketone	9.96	8.63	68806	219168	50.562	48.078

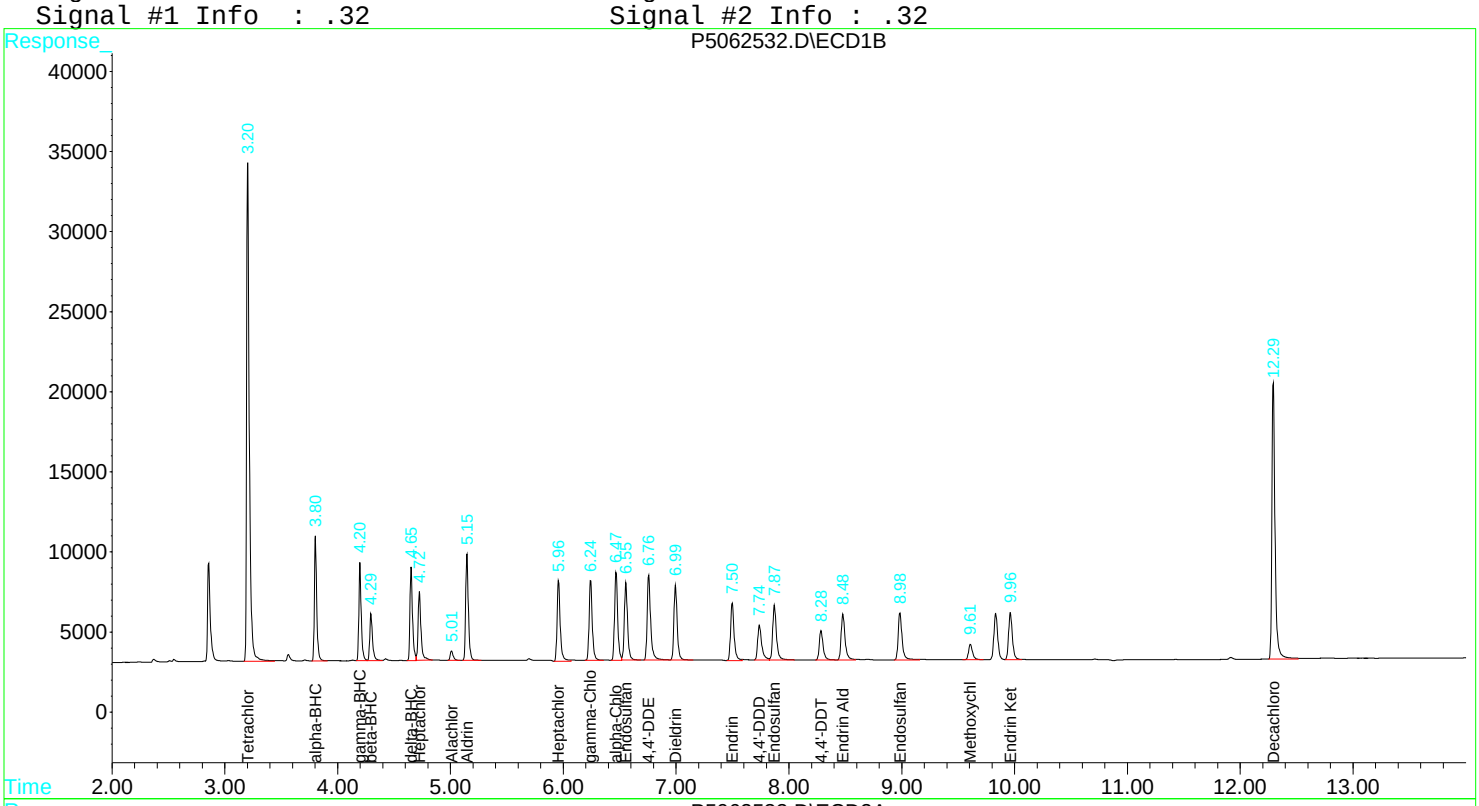
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062532.D P5012020.M Mon Feb 10 07:57:43 2020 Page 1

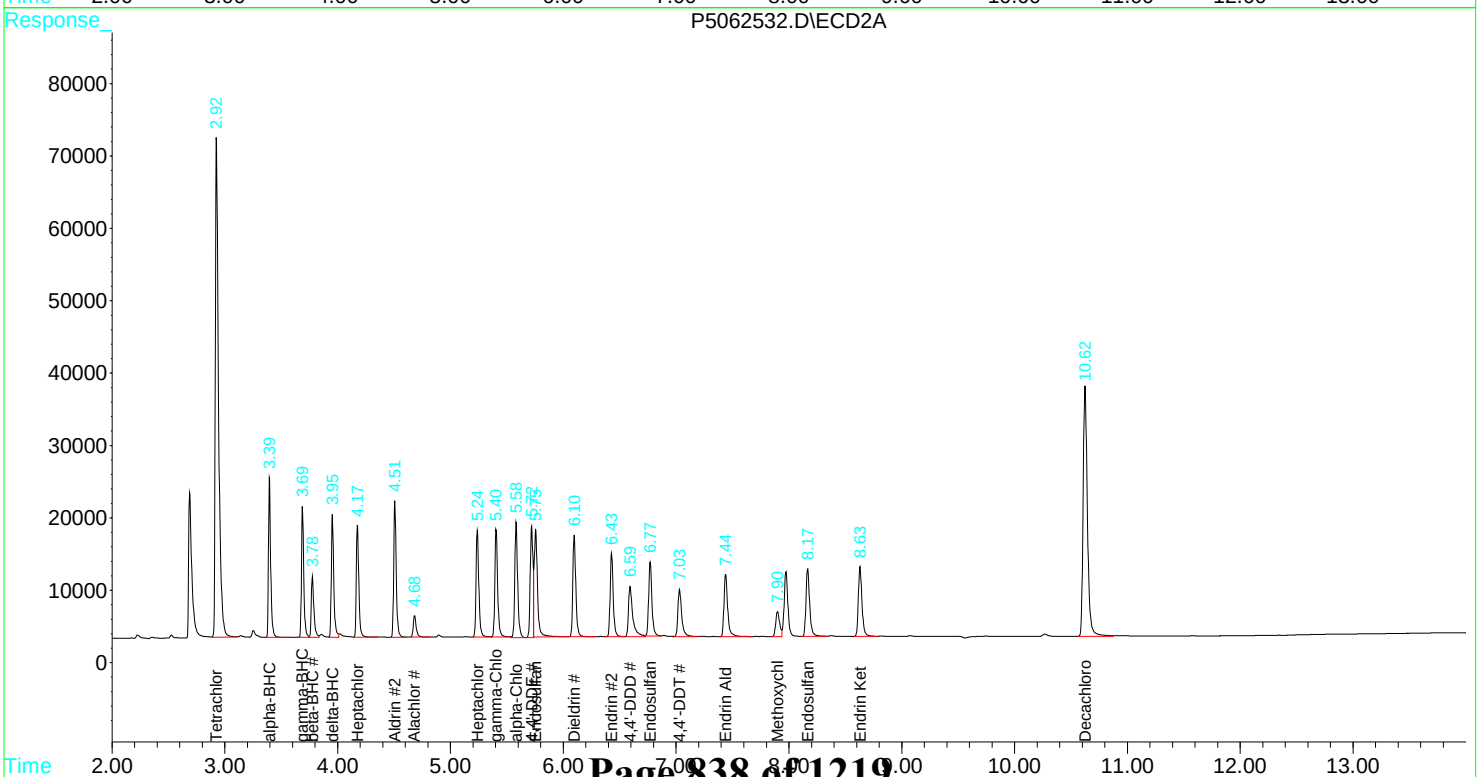
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062532.D\ECD1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062532.D\ECD2A.CH
Acq On : 10 Feb 2020 7:39 am Operator: CM
Sample : SEQ-CCV1 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 7:57 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062533.D\ECD1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062533.D\ECD2A.CH
Acq On : 10 Feb 2020 7:57 am Operator: CM
Sample : SEQ-CCV2 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
Quant Time: Feb 11 14:00 2020 Quant Results File: C5120919.RES

Quant Method : C:\HPCHEM\1\METHODS\C5120919.M (RTE Integrator)
Title : 120919-Chlordane - RTX-CLP & CLP-2
Last Update : Thu Dec 12 08:20:29 2019
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLP2
Signal #1 Info : .32 Signal #2 Info : .32

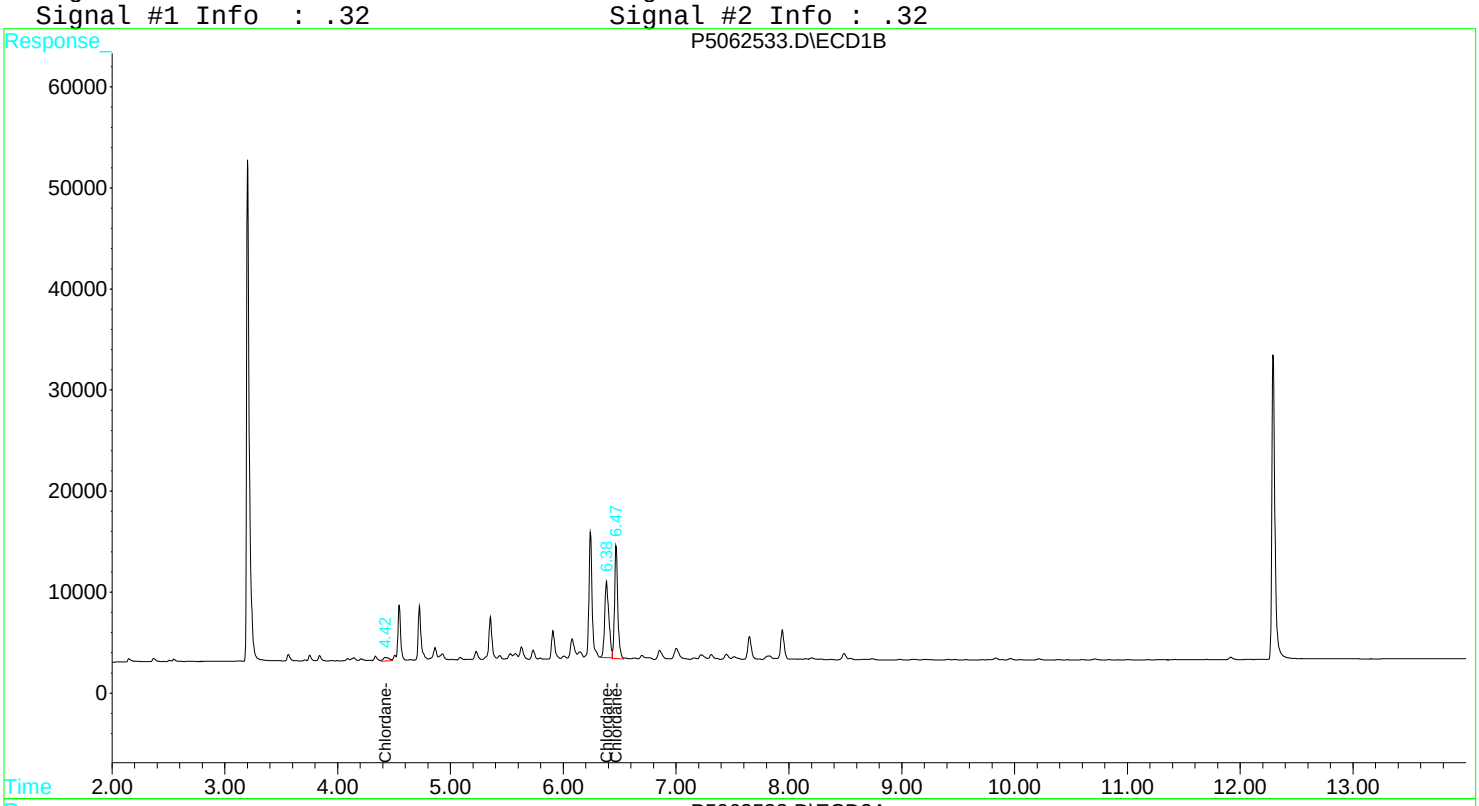
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	Target Compounds						
1) T	Chlordane-1	4.42	4.09f	1340	22102	0.247m	0.190m
2) T	Chlordane-2	6.38	5.40	19229	70106	1.294	0.191m#
3) T	Chlordane-3	6.47f	5.57f	21960	115375	1.725m	0.232m#

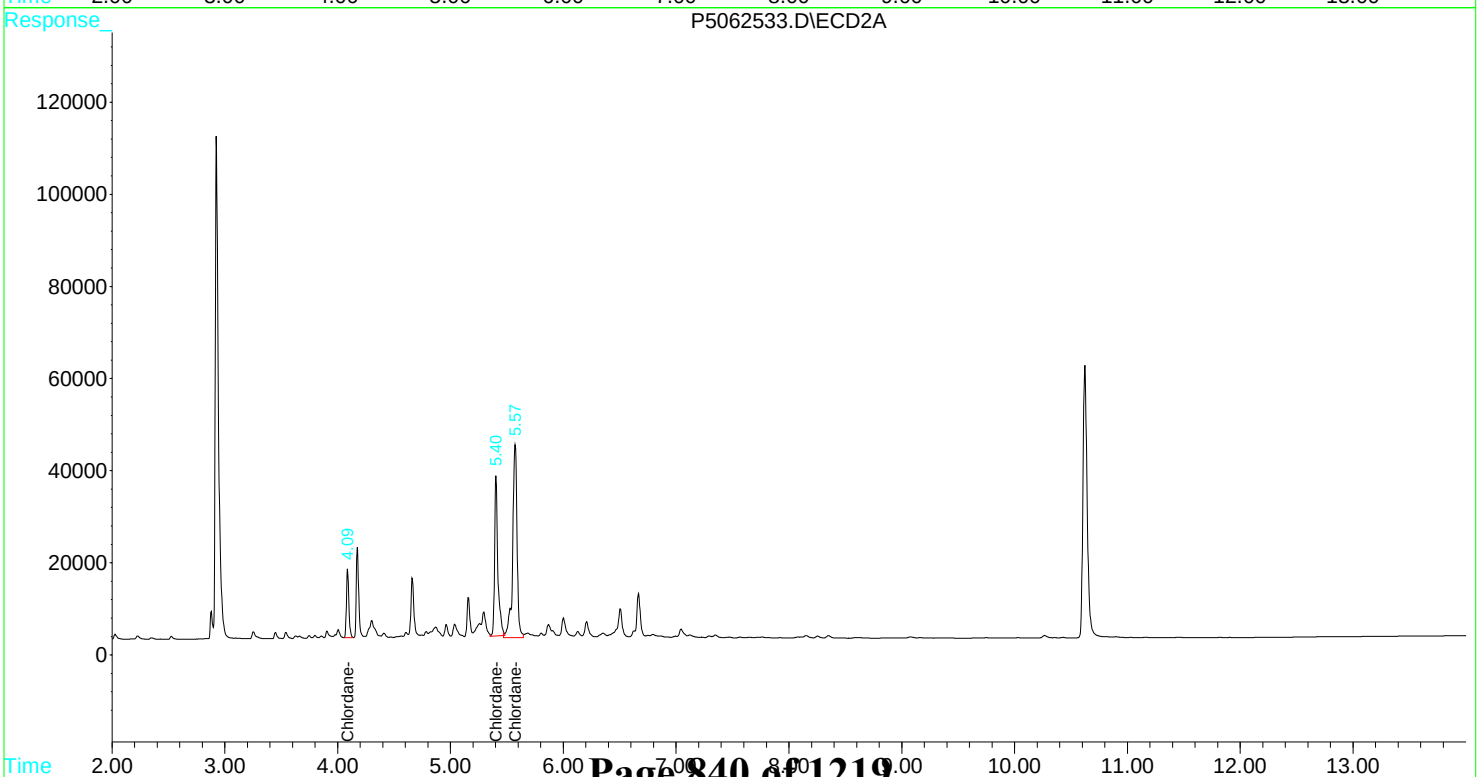
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062533.D C5120919.M Tue Feb 11 14:01:07 2020 Page 1

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062533.D\ECD1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062533.D\ECD2A.CH
Acq On : 10 Feb 2020 7:57 am Operator: CM
Sample : SEQ-CCV2 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
Quant Time: Feb 11 14:00 2020 Quant Results File: C5120919.RES

Quant Method : C:\HPCHEM\1\METHODS\C5120919.M (RTE Integrator)
Title : 120919-Chlordane - RTX-CLP & CLP-2
Last Update : Thu Dec 12 08:20:29 2019
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLP2
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062534.D\ECD1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062534.D\ECD2A.CH
Acq On : 10 Feb 2020 8:14 am Operator: CM
Sample : SEQ-CCV3 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 11 14:01 2020 Quant Results File: T5120919.RES

Quant Method : C:\HPCHEM\1\METHODS\T5120919.M (Chemstation Integrator)
Title : Toxaphene - RTX-CLP & CLP-2 11/24/15
Last Update : Mon Dec 09 17:52:42 2019
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLP2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2
	Target Compounds						
1)	Toxaphene	8.01	7.98	3724086	11614003	2.125m	2.087m

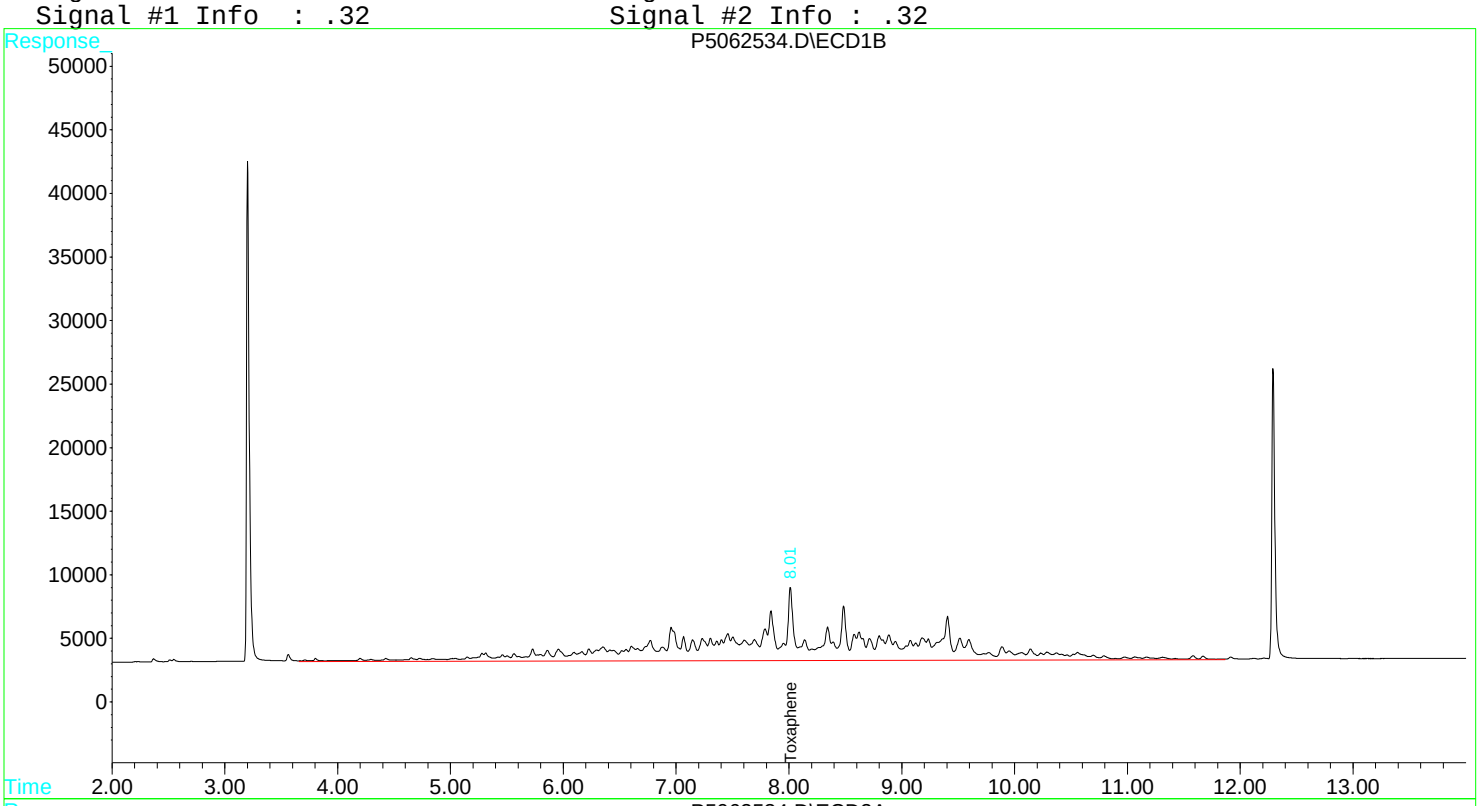
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062534.D T5120919.M Tue Feb 11 14:02:03 2020 Page 1

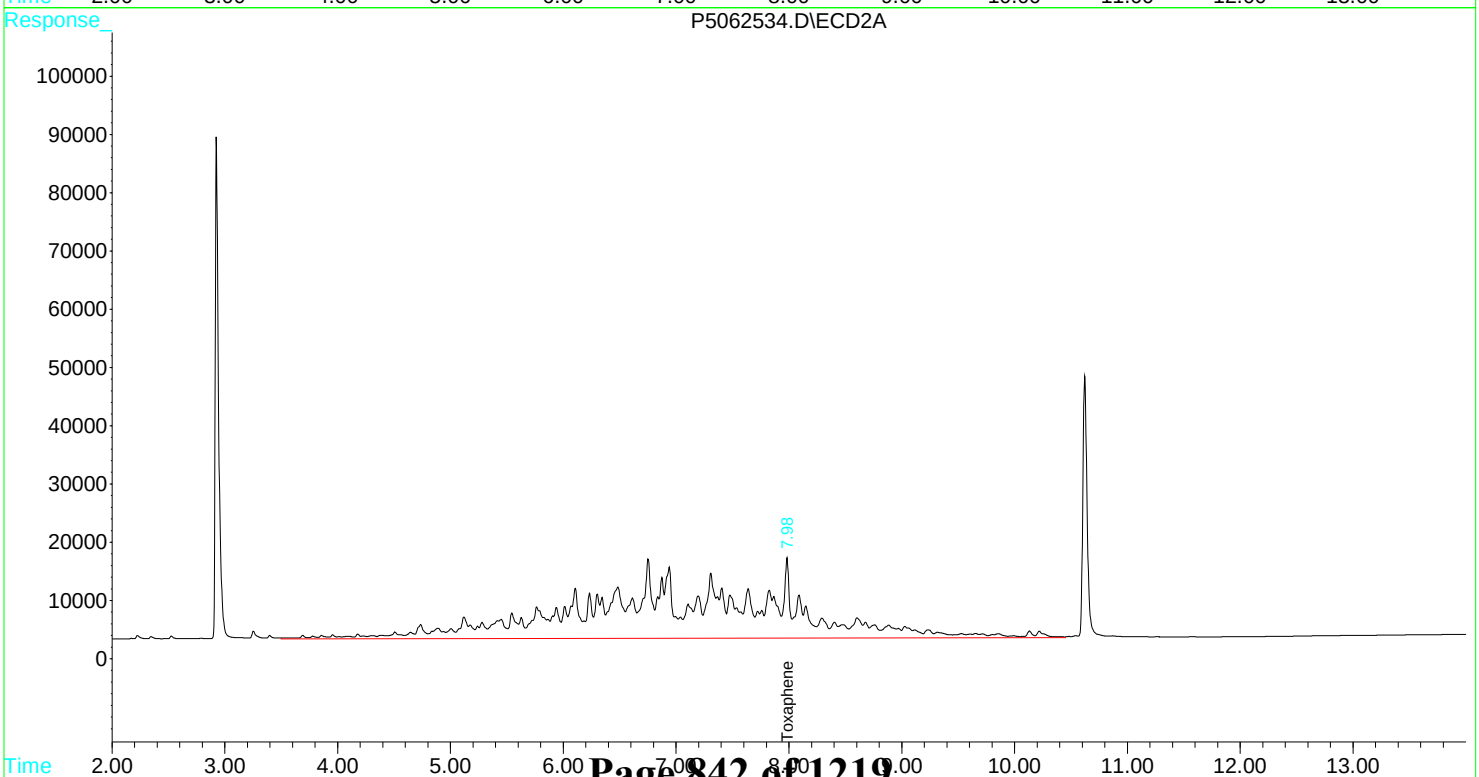
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062534.D\ECD1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062534.D\ECD2A.CH
Acq On : 10 Feb 2020 8:14 am Operator: CM
Sample : SEQ-CCV3 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 11 14:01 2020 Quant Results File: T5120919.RES

Quant Method : C:\HPCHEM\1\METHODS\T5120919.M (Chemstation Integrator)
Title : Toxaphene - RTX-CLP & CLP-2 11/24/15
Last Update : Mon Dec 09 17:52:42 2019
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLP2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GC Dual E	Calibration:	YB00024
Lab File ID:	P5062559.D	Calibration Date:	01/20/20 08:04
Sequence:	Y0B1124	Injection Date:	02/10/20
Lab Sample ID:	Y0B1124-CCV4	Injection Time:	16:55

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDD	A	50.0	52.6	1076.138	1133		5.3	20	
4,4'-DDD [2C]	A	50.0	56.5	3474.353	3926.88		13.0	20	
4,4'-DDE	A	50.0	49.8	2063.587	2054.08		-0.5	20	
4,4'-DDE [2C]	A	50.0	56.3	4815.633	5422.16		12.6	20	
4,4'-DDT	L	50.0	56.8	776.6917	882.4		13.6	20	
4,4'-DDT [2C]	L	50.0	55.4	2813.598	3118.72		10.8	20	
Aldrin	A	50.0	54.0	2153.493	2323.68		7.9	20	
Aldrin [2C]	A	50.0	62.1	5399.01	6707.44		24.2	20	*
alpha-BHC	A	50.0	57.1	2068.097	2363.28		14.3	20	
alpha-BHC [2C]	A	50.0	68.4	5358.04	7325.6		36.7	20	*
alpha-Chlordane	L	50.0	53.4	2027.252	2166.24		6.9	20	
alpha-Chlordane [2C]	A	50.0	65.6	4815.633	6322.88		31.3	20	*
beta-BHC	A	50.0	58.4	927.39	1082.68		16.7	20	
beta-BHC [2C]	A	50.0	62.2	2408.177	3136.92		30.3	20	*
delta-BHC	A	50.0	57.5	1640.23	1886.04		15.0	20	
delta-BHC [2C]	A	50.0	67.6	4410.682	5960.6		35.1	20	*
Dieldrin	L	50.0	53.8	1811.86	1949.96		7.6	20	
Dieldrin [2C]	A	50.0	59.8	4907.54	5872.4		19.7	20	
Endosulfan I	A	50.0	55.7	1820.465	2028.12		11.4	20	
Endosulfan I [2C]	A	50.0	59.4	5911.517	6649.2		18.7	20	
Endosulfan II	L	50.0	55.1	1550.422	1708.32		10.2	20	
Endosulfan II [2C]	L	50.0	58.5	3973.828	4648.76		17.0	20	
Endosulfan sulfate	L	50.0	53.8	1408.512	1515.36		7.6	20	
Endosulfan sulfate [2C]	L	50.0	51.2	4286.683	4665.24		2.4	20	
Endrin	L	50.0	58.9	1443.188	1700.92		17.9	20	
Endrin [2C]	L	50.0	58.7	4140.108	4858.68		17.4	20	
Endrin aldehyde	L	50.0	56.1	1335.052	1498.64		12.3	20	
Endrin aldehyde [2C]	A	50.0	57.5	3958.66	4550.44		14.9	20	
Endrin ketone	L	50.0	54.8	1360.813	1491.64		9.6	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GC Dual E	Calibration:	YB00024
Lab File ID:	P5062559.D	Calibration Date:	01/20/20 08:04
Sequence:	Y0B1124	Injection Date:	02/10/20
Lab Sample ID:	Y0B1124-CCV4	Injection Time:	16:55

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Endrin ketone [2C]	L	50.0	52.0	4272.847	4739.44		4.0	20	
gamma-BHC (Lindane)	A	50.0	56.7	1786.795	2024.48		13.3	20	
gamma-BHC (Lindane) [2C]	A	50.0	66.1	4537.5	5996.08		32.1	20	*
gamma-Chlordane	A	50.0	53.6	1906.168	2044.64		7.3	20	
gamma-Chlordane [2C]	A	50.0	59.0	5371.015	5940.64		18.1	20	
Heptachlor	L	50.0	58.8	1366.857	1608.52		17.7	20	
Heptachlor [2C]	A	50.0	53.0	4518.895	5044.52		11.6	20	
Heptachlor epoxide	L	50.0	54.5	1821.368	1987.08		9.1	20	
Heptachlor epoxide [2C]	A	50.0	56.5	4879.16	5805.36		13.0	20	
Methoxychlor	L	50.0	58.9	423.7633	499.6		17.9	20	
Methoxychlor [2C]	A	50.0	58.6	1406.852	1647.92		17.1	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)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062559.D\ECD1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062559.D\ECD2A.CH
Acq On : 10 Feb 2020 4:55 pm Operator: CM
Sample : SEQ-CCV4 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 17:47 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.92	590848	1429786	198.737	173.866
	Spiked Amount 200.000	Range 30 - 150		Recovery =		99.37%	86.93%
23) SA	Decachlorobiphen	12.29	10.62	308968	1007092	151.506	168.177
	Spiked Amount 200.000	Range 30 - 150		Recovery =		75.75%	84.09%
	Target Compounds						
2) M	alpha-BHC	3.80	3.39	118164	366280	57.137	68.361m
3) M	gamma-BHC (Linda	4.19	3.69	101224	299804	56.651	66.073m
4) M	beta-BHC	4.29	3.77	54134	156846	58.372	62.159m
5) M	delta-BHC	4.65	3.95	94302	298030	57.493m	67.570m
6) M	Heptachlor	4.72	4.17	80426	252226	58.840	53.013
7) M	Aldrin	5.14	4.50	116184	335372	53.951	62.117m
8) M	Alachlor	5.01	4.68	12198	55634	56.663	59.430m
9) M	Heptachlor Epoxi	5.95	5.23	99354	290268	54.549m	56.493
10) M	gamma-Chlordane	6.24	5.40	102232	297032	53.632	59.033
11) M	alpha-Chlordane	6.46	5.58	108312	316144	53.428	65.650m
12) M	Endosulfan I	6.55	5.75	101406	332460	55.703	59.358
13) M	4,4'-DDE	6.75	5.72	102704	271108	49.770	56.297m
14) M	Dieldrin	6.99	6.09	97498	293620	53.811	59.830
15) M	Endrin	7.49	6.42	85046	242934	58.929	58.678
16) M	4,4'-DDD	7.73	6.59	56650	196344	52.642	56.512
17) M	Endosulfan II	7.86	6.76	85416	232438	55.092	58.492
18) M	4,4'-DDT	8.28	7.02	44120	155936	56.805	55.422
19) M	Endrin Aldehyde	8.47	7.43	74932	227522	56.127	57.474
20) M	Methoxychlor	9.60	7.89	24980	82396	58.948	58.568m
21) M	Endosulfan sulfa	8.98	8.16	75768	233262	53.793	51.178
22) M	Endrin Ketone	9.95	8.62	74582	236972	54.807	51.983

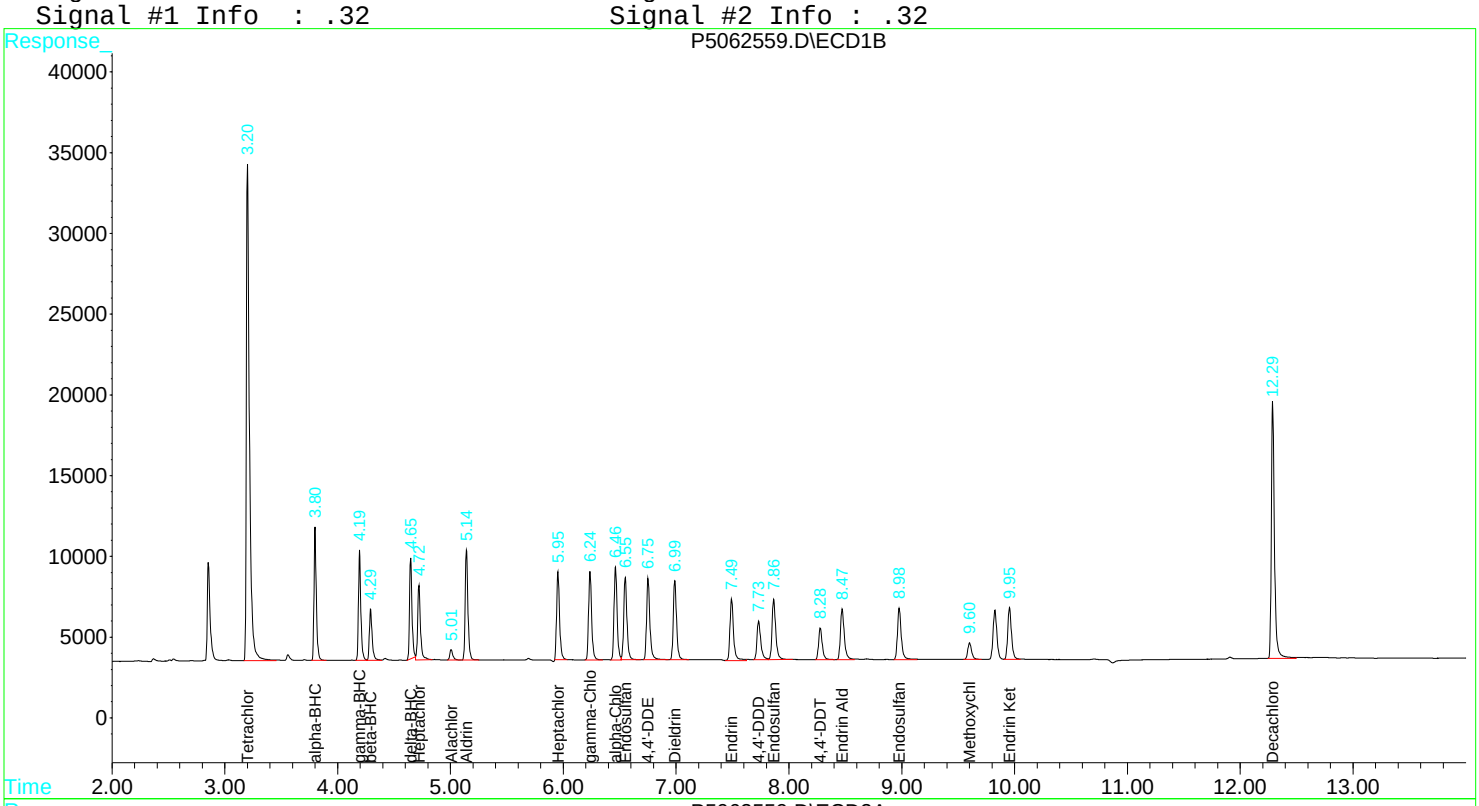
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062559.D P5012020.M Mon Feb 10 17:48:08 2020 Page 1

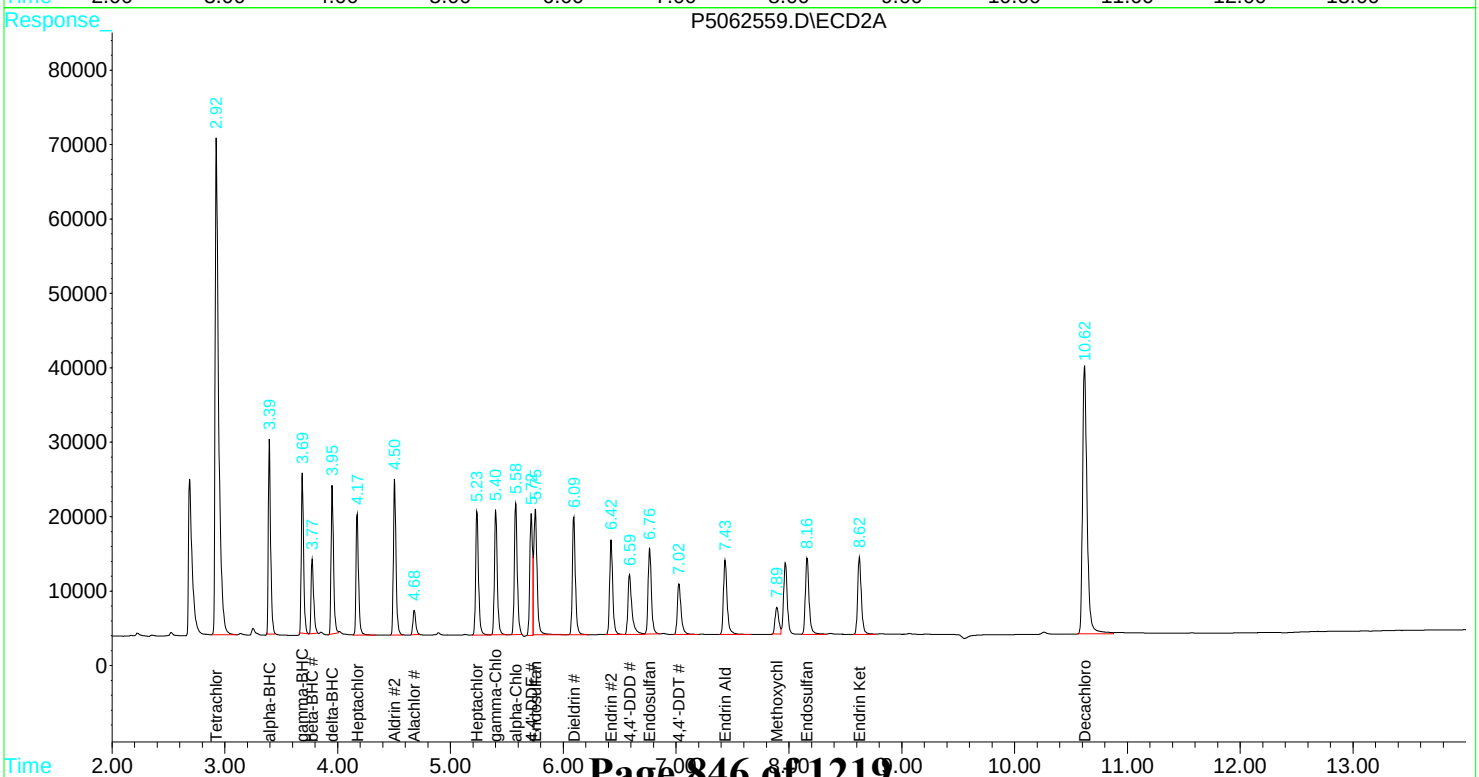
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062559.D\ECD1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062559.D\ECD2A.CH
Acq On : 10 Feb 2020 4:55 pm Operator: CM
Sample : SEQ-CCV4 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 1.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 17:47 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000432.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1201	Injection Date:	02/11/20
Lab Sample ID:	Y0B1201-CCV1	Injection Time:	09:47

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDD	A	50.0	40.9	5540073	4536752		-18.1	20
4,4'-DDD [2C]	A	50.0	44.1	1.182261E+07	1.042852E+07		-11.8	20
4,4'-DDE	A	50.0	45.3	5829589	5279500		-9.4	20
4,4'-DDE [2C]	A	50.0	45.0	1.688651E+07	1.518661E+07		-10.1	20
4,4'-DDT	A	50.0	40.1	3614976	2898406		-19.8	20
4,4'-DDT [2C]	A	50.0	41.8	7426936	6839370		-7.9	20
Aldrin	A	50.0	49.8	7327631	7292774		-0.5	20
Aldrin [2C]	A	50.0	53.2	1.754809E+07	1.867579E+07		6.4	20
alpha-BHC	A	50.0	47.5	9631694	9146502		-5.0	20
alpha-BHC [2C]	A	50.0	50.9	1.8416E+07	1.874769E+07		1.8	20
alpha-Chlordane	A	50.0	43.3	7399746	6405270		-13.4	20
alpha-Chlordane [2C]	A	50.0	46.4	1.56799E+07	1.45576E+07		-7.2	20
beta-BHC	A	50.0	43.6	3158372	2752378		-12.9	20
beta-BHC [2C]	A	50.0	44.0	6902984	6074932		-12.0	20
delta-BHC	A	50.0	43.7	7125131	6230194		-12.6	20
delta-BHC [2C]	A	50.0	45.5	1.529397E+07	1.392331E+07		-9.0	20
Dieldrin	A	50.0	47.2	7025694	6631650		-5.6	20
Dieldrin [2C]	A	50.0	46.8	1.609941E+07	1.507663E+07		-6.4	20
Endosulfan I	A	50.0	46.5	8839524	8218500		-7.0	20
Endosulfan I [2C]	A	50.0	48.9	1.441512E+07	1.408617E+07		-2.3	20
Endosulfan II	A	50.0	46.5	6142618	5715646		-7.0	20
Endosulfan II [2C]	A	50.0	49.5	1.376713E+07	1.362294E+07		-1.0	20
Endosulfan sulfate	A	50.0	42.7	5379002	4597966		-14.5	20
Endosulfan sulfate [2C]	A	50.0	46.4	1.120846E+07	1.040711E+07		-7.1	20
Endrin	A	50.0	43.6	5824717	5074170		-12.9	20
Endrin [2C]	A	50.0	49.5	1.151704E+07	1.140921E+07		-0.9	20
Endrin aldehyde	A	50.0	41.9	5222092	4380038		-16.1	20
Endrin aldehyde [2C]	A	50.0	45.7	1.046834E+07	9573102		-8.6	20
Endrin ketone	A	50.0	46.8	5602748	5240130		-6.5	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000432.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1201	Injection Date:	02/11/20
Lab Sample ID:	Y0B1201-CCV1	Injection Time:	09:47

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin ketone [2C]	A	50.0	51.3	1.124582E+07	1.154333E+07		2.6	20
gamma-BHC (Lindane)	A	50.0	50.5	8379909	8460468		1.0	20
gamma-BHC (Lindane) [2C]	A	50.0	50.4	1.645183E+07	1.657096E+07		0.7	20
gamma-Chlordane	A	50.0	42.8	7563848	6473510		-14.4	20
gamma-Chlordane [2C]	A	50.0	47.4	1.599526E+07	1.517793E+07		-5.1	20
Heptachlor	A	50.0	46.1	6903061	6362224		-7.8	20
Heptachlor [2C]	A	50.0	51.6	1.368298E+07	1.411185E+07		3.1	20
Heptachlor epoxide	A	50.0	42.7	7458422	6373996		-14.5	20
Heptachlor epoxide [2C]	A	50.0	47.3	1.462001E+07	1.383581E+07		-5.4	20
Methoxychlor	A	50.0	41.6	5897718	4910168		-16.7	20
Methoxychlor [2C]	A	50.0	45.5	3809151	3466342		-9.0	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\1\data\021120A\
Data File : P60000432.D
Acq On : 11 Feb 2020 9:47 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 10:01:25 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

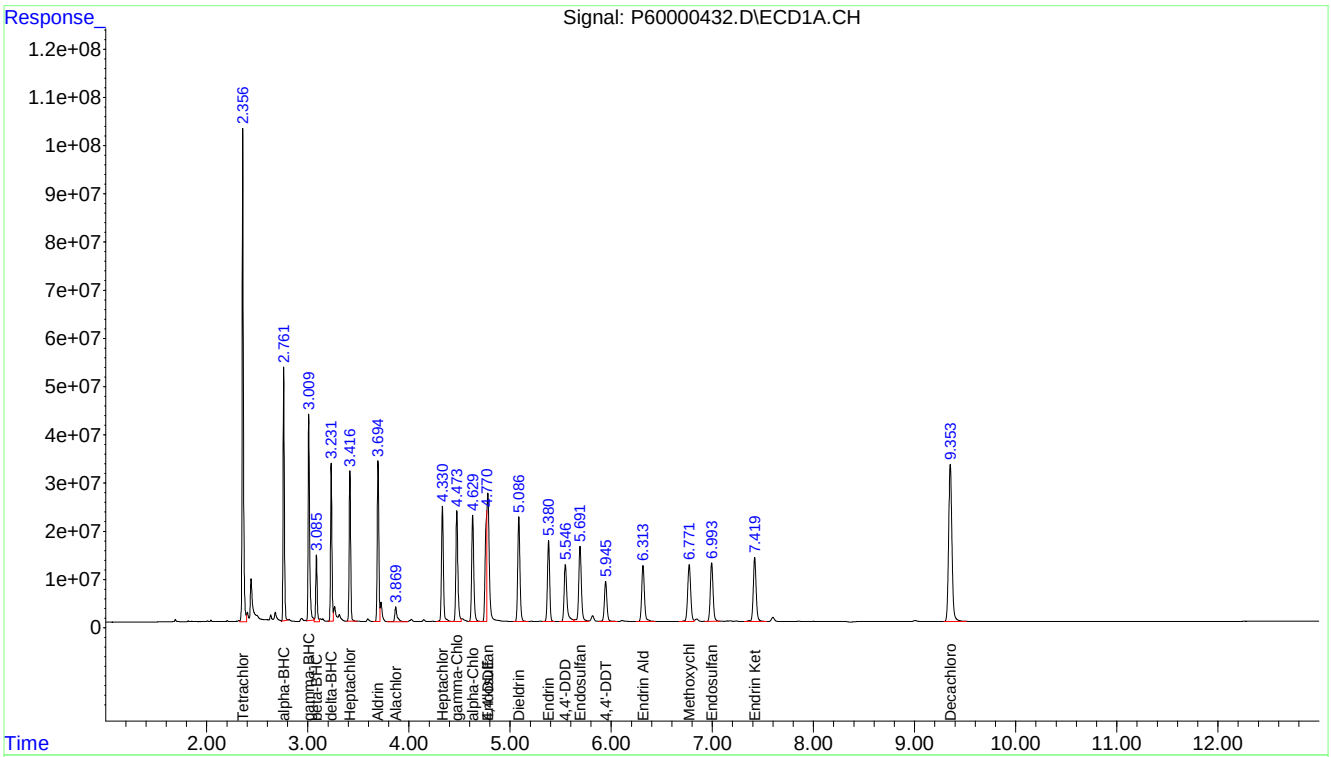
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.356	884500119	140.095 ng/mLm
2)	alpha-BHC	2.761	457325121	47.481 ng/mL
3)	gamma-BHC (Lindane)	3.009	423023438	50.481 ng/mL
4)	beta-BHC	3.085	137618859	43.573 ng/mLm
5)	delta-BHC	3.232	311509660	43.720 ng/mL
6)	Heptachlor	3.416	318111240	46.083 ng/mL
7)	Aldrin	3.694	364638673	49.762 ng/mL
8)	Alachlor	3.869	54327478	41.337 ng/mLm
9)	Heptachlor Epoxide	4.331	318699779	42.730 ng/mL
10)	gamma-Chlordane	4.473	323675463	42.792 ng/mL
11)	alpha-Chlordane	4.630	320263531	43.280 ng/mL
12)	Endosulfan I	4.780	410924964	46.487 ng/mLm
13)	4,4'-DDE	4.770	263975019	45.282 ng/mLm
14)	Dieldrin	5.086	331582490	47.196 ng/mL
15)	Endrin	5.381	253708529	43.557 ng/mL
16)	4,4'-DDD	5.546	226837602	40.945 ng/mL
17)	Endosulfan II	5.691	285782288	46.525 ng/mL
18)	4,4'-DDT	5.945	144920312	40.089 ng/mL
19)	Endrin Aldehyde	6.314	219001878	41.938 ng/mL
20)	Methoxychlor	6.772	245508430	41.628 ng/mL
21)	Endosulfan Sulfate	6.994	229898264	42.740 ng/mL
22)	Endrin Ketone	7.419	262006501	46.764 ng/mL
23)	Decachlorobiphenyl	9.353	746001420	140.970 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	1848615112	151.246 ng/mL
26)	alpha-BHC #2	3.097	937384734	50.901 ng/mL
27)	gamma-BHC (lLindane) #2	3.427	828548103	50.362 ng/mL
28)	beta-BHC #2	3.513	303746578	44.002 ng/mL
29)	delta-BHC #2	3.814	696165587	45.519 ng/mL
30)	Heptachlor #2	3.874	705592355	51.567 ng/mL
31)	Aldrin #2	4.232	933789451	53.213 ng/mL
32)	Alachlor #2	4.136	86289604	40.371 ng/mL
33)	Heptachlor Epoxide #2	4.944	691790378	47.318 ng/mL
34)	gamma-Chlordane #2	5.200	758896408	47.445 ng/mL
35)	alpha-Chlordane #2	5.405	727880059	46.421 ng/mL
36)	Endosulfan I #2	5.473	704308485	48.859 ng/mL
37)	4,4'-DDE #2	5.686	759330418	44.967 ng/mL
38)	Dieldrin #2	5.872	753831302	46.824 ng/mL
39)	Endrin #2	6.327	570460700	49.532 ng/mL
40)	4.4'-DDD #2	6.586	521426055	44.104 ng/mL
41)	Endosulfan II #2	6.676	681147129	49.476 ng/mL
42)	4,4'-DDT #2	7.096	341968528	41.822 ng/mL
43)	Endrin Aldehyde #2	7.245	478655140	45.724 ng/mL
44)	Methoxychlor #2	8.373	173317056	45.500 ng/mL
45)	Endosulfan Sulfate #2	7.722	520355313	46.425 ng/mL
46)	Endrin Ketone #2	8.640	577166715	51.323 ng/mL
47)	Decachlorobiphenyl #2	11.109	1628237508	153.731 ng/mL

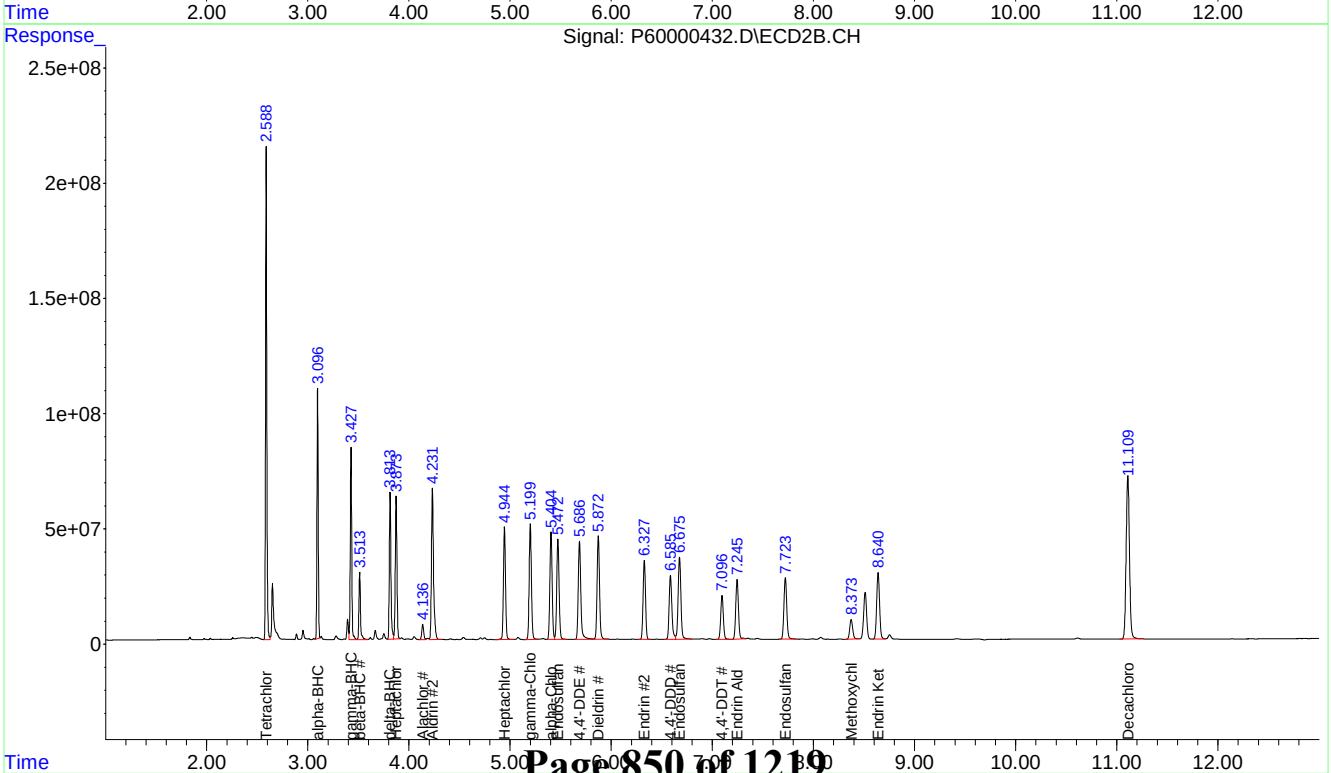
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000432.D
Acq On : 11 Feb 2020 9:47 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 10:01:25 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000431.D
Acq On : 11 Feb 2020 9:30 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV2
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 3 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 09:50:54 2020
Quant Method : C:\msdchem\C6120219.M
Quant Title : Chlrodane, total -Pesticides 8081/608
QLast Update : Tue Dec 03 08:16:32 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

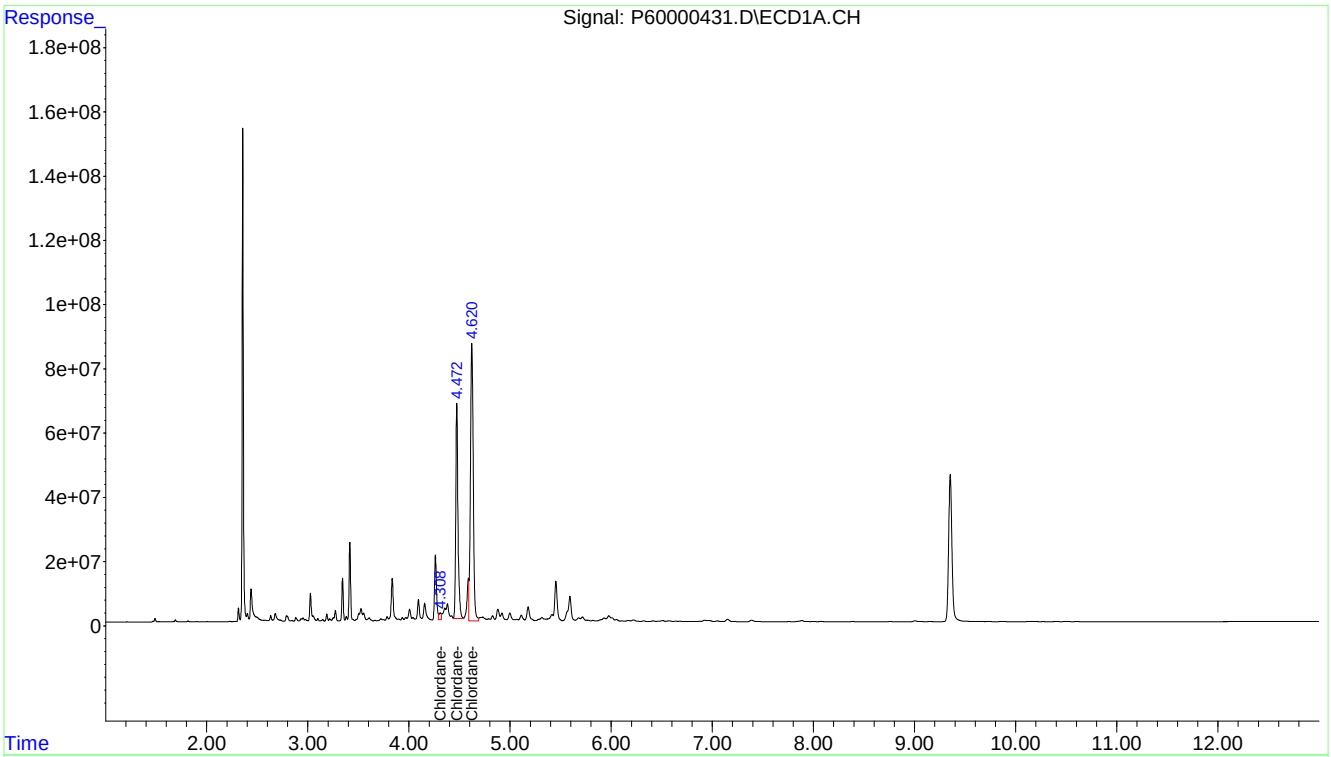
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
Target Compounds							
1)	Chlordane-1	4.308	4.308f	31860601	105.1E6	0.203m	0.271m#
2)	Chlordane-2	4.472f	5.199	1022.5E6	2291.9E6	1.418m	1.332
3)	Chlordane-3	4.621	5.403	1676.4E6	4015.3E6	1.421	1.333m

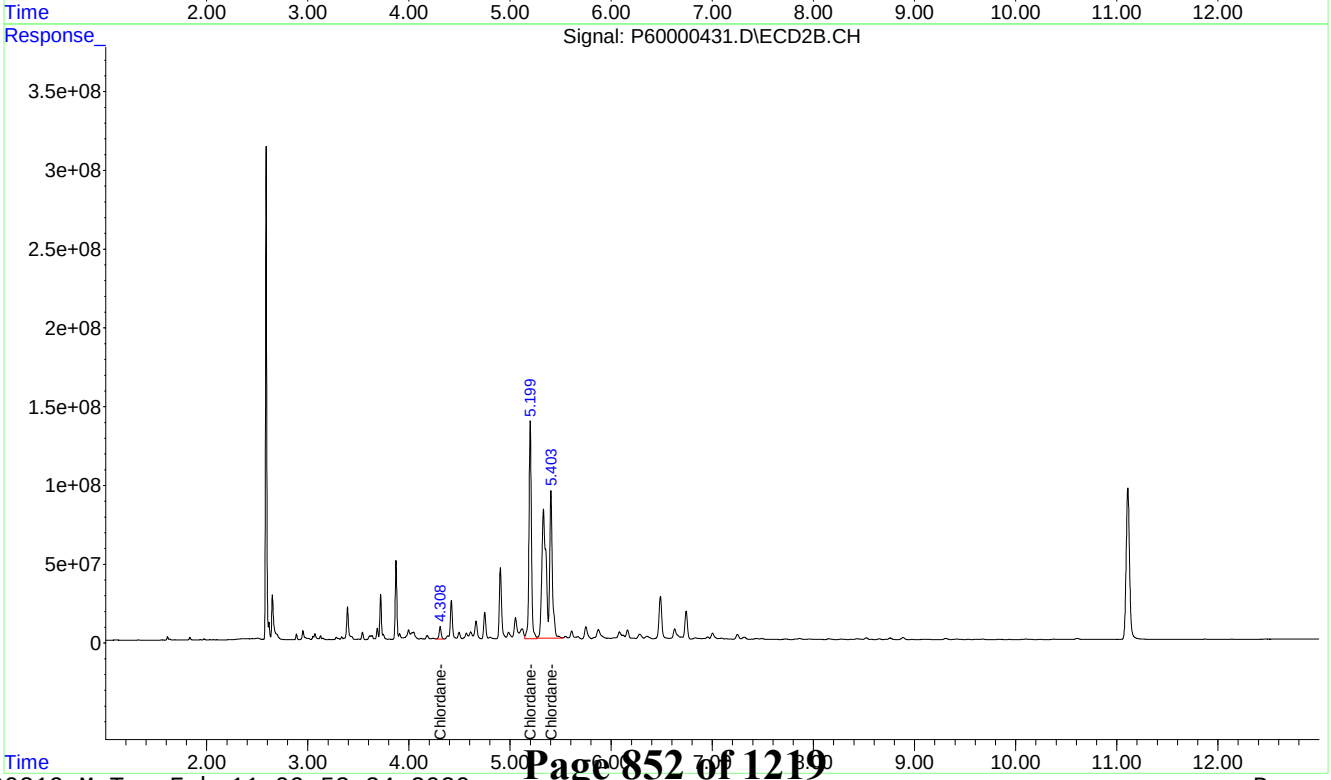
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000431.D
Acq On : 11 Feb 2020 9:30 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV2
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 3 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 09:50:54 2020
Quant Method : C:\msdchem\C6120219.M
Quant Title : Chlrodane, total -Pesticides 8081/608
QLast Update : Tue Dec 03 08:16:32 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000433.D
Acq On : 11 Feb 2020 10:04 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV3
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 4 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 13:46:52 2020
Quant Method : C:\msdchem\T6120219.M
Quant Title : Chlrodane, total -Pesticides 8081/608
QLast Update : Tue Dec 03 08:34:03 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

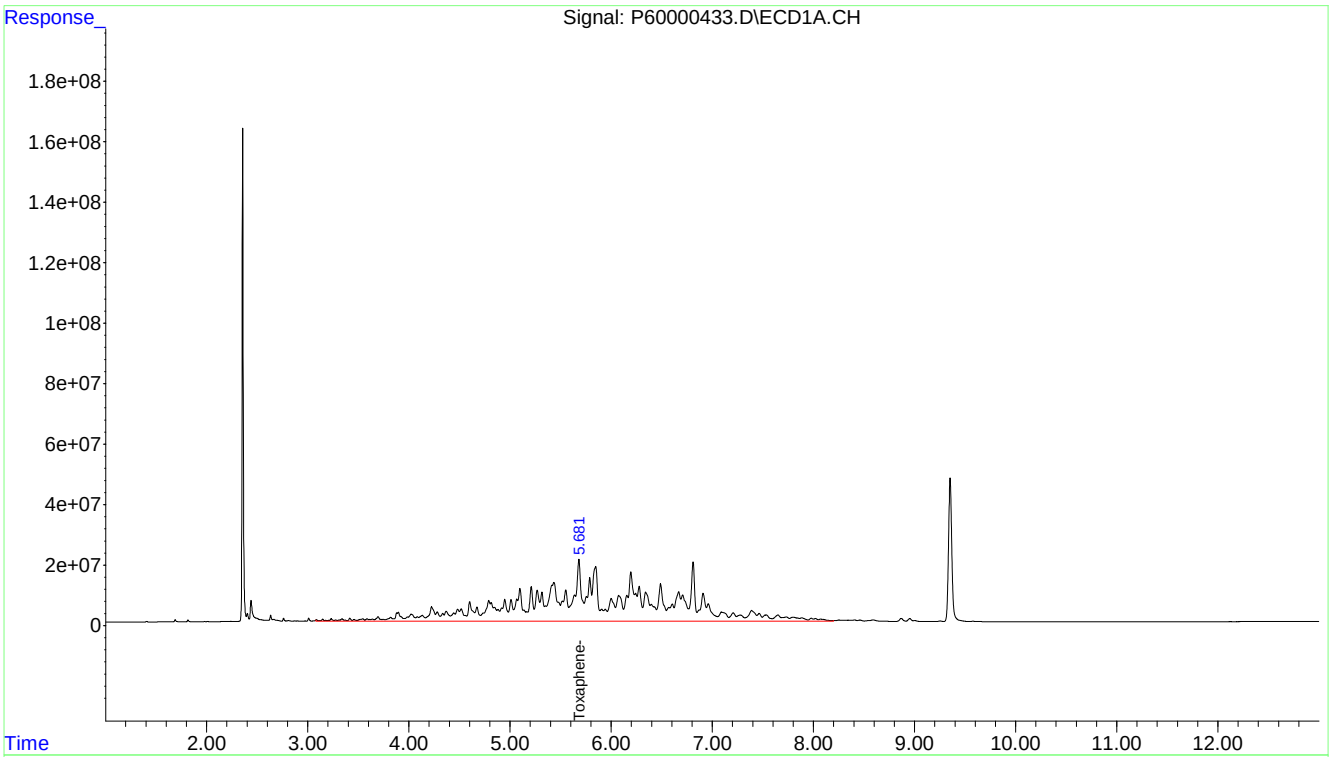
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Toxaphene-1	5.681	11908866522	2.395 ug/mLm
3)	Toxaphene #2	6.811	28787024243	2.136 ug/mLm

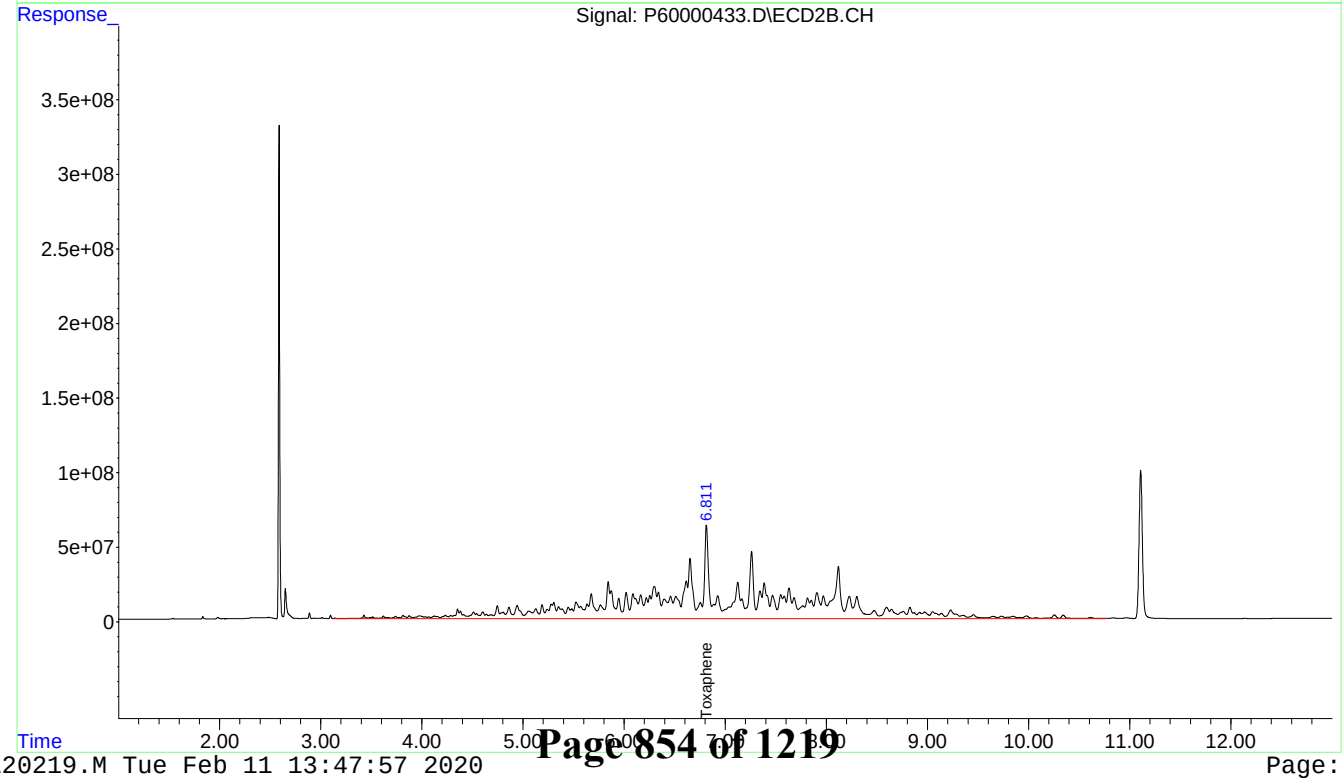
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000433.D
Acq On : 11 Feb 2020 10:04 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV3
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 4 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 13:46:52 2020
Quant Method : C:\msdchem\T6120219.M
Quant Title : Chlrodane, total -Pesticides 8081/608
QLast Update : Tue Dec 03 08:34:03 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000455.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1201	Injection Date:	02/11/20
Lab Sample ID:	Y0B1201-CCV4	Injection Time:	16:17

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDD	A	50.0	41.0	5540073	4542664		-18.0	20
4,4'-DDD [2C]	A	50.0	43.4	1.182261E+07	1.025365E+07		-13.3	20
4,4'-DDE	A	50.0	41.5	5829589	4835128		-17.1	20
4,4'-DDE [2C]	A	50.0	47.2	1.688651E+07	1.593619E+07		-5.6	20
4,4'-DDT	A	50.0	40.2	3614976	2908758		-19.5	20
4,4'-DDT [2C]	A	50.0	41.3	7426936	6755934		-9.0	20
Aldrin	A	50.0	46.2	7327631	6764000		-7.7	20
Aldrin [2C]	A	50.0	54.3	1.754809E+07	1.90578E+07		8.6	20
alpha-BHC	A	50.0	45.3	9631694	8735796		-9.3	20
alpha-BHC [2C]	A	50.0	51.0	1.8416E+07	1.87846E+07		2.0	20
alpha-Chlordane	A	50.0	43.0	7399746	6371062		-13.9	20
alpha-Chlordane [2C]	A	50.0	48.0	1.56799E+07	1.506814E+07		-3.9	20
beta-BHC	A	50.0	41.5	3158372	2622154		-17.0	20
beta-BHC [2C]	A	50.0	44.9	6902984	6200810		-10.2	20
delta-BHC	A	50.0	43.4	7125131	6188768		-13.1	20
delta-BHC [2C]	A	50.0	47.5	1.529397E+07	1.45151E+07		-5.1	20
Dieldrin	A	50.0	48.5	7025694	6818942		-2.9	20
Dieldrin [2C]	A	50.0	49.7	1.609941E+07	1.59893E+07		-0.7	20
Endosulfan I	A	50.0	44.2	8839524	7814586		-11.6	20
Endosulfan I [2C]	A	50.0	50.1	1.441512E+07	1.444498E+07		0.2	20
Endosulfan II	A	50.0	41.9	6142618	5152472		-16.1	20
Endosulfan II [2C]	A	50.0	46.6	1.376713E+07	1.282975E+07		-6.8	20
Endosulfan sulfate	A	50.0	40.2	5379002	4324706		-19.6	20
Endosulfan sulfate [2C]	A	50.0	44.6	1.120846E+07	9995188		-10.8	20
Endrin	A	50.0	43.2	5824717	5031184		-13.6	20
Endrin [2C]	A	50.0	50.6	1.151704E+07	1.165484E+07		1.2	20
Endrin aldehyde	A	50.0	40.5	5222092	4227098		-19.1	20
Endrin aldehyde [2C]	A	50.0	45.6	1.046834E+07	9554526		-8.7	20
Endrin ketone	A	50.0	44.0	5602748	4927130		-12.1	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000455.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1201	Injection Date:	02/11/20
Lab Sample ID:	Y0B1201-CCV4	Injection Time:	16:17

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin ketone [2C]	A	50.0	48.9	1.124582E+07	1.100462E+07		-2.1	20
gamma-BHC (Lindane)	A	50.0	48.1	8379909	8060796		-3.8	20
gamma-BHC (Lindane) [2C]	A	50.0	50.1	1.645183E+07	1.647193E+07		0.1	20
gamma-Chlordane	A	50.0	42.0	7563848	6358116		-15.9	20
gamma-Chlordane [2C]	A	50.0	49.1	1.599526E+07	1.571247E+07		-1.8	20
Heptachlor	A	50.0	43.8	6903061	6042806		-12.5	20
Heptachlor [2C]	A	50.0	49.7	1.368298E+07	1.360277E+07		-0.6	20
Heptachlor epoxide	A	50.0	42.0	7458422	6263344		-16.0	20
Heptachlor epoxide [2C]	A	50.0	48.2	1.462001E+07	1.409047E+07		-3.6	20
Methoxychlor	A	50.0	41.3	5897718	4868962		-17.4	20
Methoxychlor [2C]	A	50.0	44.6	3809151	3398622		-10.8	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\1\data\021120A\
Data File : P60000455.D
Acq On : 11 Feb 2020 4:17 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV4
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 16:31:18 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

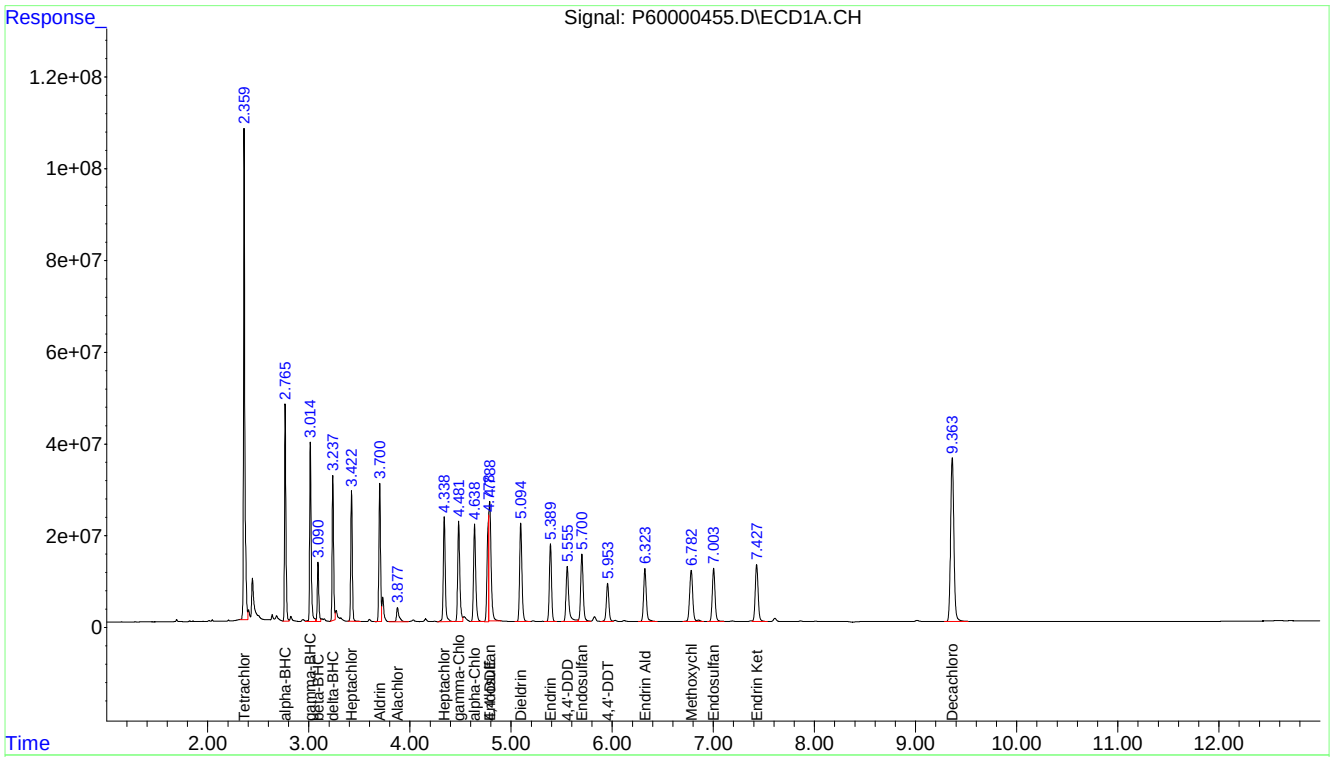
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.359	958038581	151.743 ng/mLm
2)	alpha-BHC	2.766	436789826	45.349 ng/mL
3)	gamma-BHC (Lindane)	3.014	403039843	48.096 ng/mL
4)	beta-BHC	3.091	131107723	41.511 ng/mL
5)	delta-BHC	3.238	309438369	43.429 ng/mL
6)	Heptachlor	3.422	302140324	43.769 ng/mL
7)	Aldrin	3.701	338200025	46.154 ng/mL
8)	Alachlor	3.877	52678160	40.082 ng/mLm
9)	Heptachlor Epoxide	4.339	313167152	41.988 ng/mL
10)	gamma-Chlordane	4.481	317905780	42.030 ng/mL
11)	alpha-Chlordane	4.638	318553073	43.049 ng/mL
12)	Endosulfan I	4.788	390729350	44.203 ng/mLm
13)	4,4'-DDE	4.778	241756344	41.471 ng/mLm
14)	Dieldrin	5.095	340947121	48.529 ng/mL
15)	Endrin	5.389	251559207	43.188 ng/mL
16)	4,4'-DDD	5.555	227133240	40.998 ng/mL
17)	Endosulfan II	5.700	257623645	41.940 ng/mL
18)	4,4'-DDT	5.953	145437937	40.232 ng/mLm
19)	Endrin Aldehyde	6.323	211354873	40.473 ng/mL
20)	Methoxychlor	6.782	243448107	41.278 ng/mLm
21)	Endosulfan Sulfate	7.003	216235329	40.200 ng/mL
22)	Endrin Ketone	7.428	246356463	43.971 ng/mL
23)	Decachlorobiphenyl	9.364	813223101	153.673 ng/mL
25)	Tetrachloro-m-xylene #2	2.589	2078164596	170.027 ng/mL
26)	alpha-BHC #2	3.097	939230186	51.001 ng/mL
27)	gamma-BHC (lLindane) #2	3.428	823596489	50.061 ng/mL
28)	beta-BHC #2	3.514	310040517	44.914 ng/mL
29)	delta-BHC #2	3.815	725754975	47.454 ng/mL
30)	Heptachlor #2	3.875	680138554	49.707 ng/mL
31)	Aldrin #2	4.234	952889919	54.302 ng/mL
32)	Alachlor #2	4.137	90195145	42.199 ng/mL
33)	Heptachlor Epoxide #2	4.946	704523280	48.189 ng/mL
34)	gamma-Chlordane #2	5.203	785623701	49.116 ng/mL
35)	alpha-Chlordane #2	5.407	753407261	48.049 ng/mL
36)	Endosulfan I #2	5.475	722249036	50.104 ng/mL
37)	4,4'-DDE #2	5.689	796809716	47.186 ng/mL
38)	Dieldrin #2	5.875	799464844	49.658 ng/mL
39)	Endrin #2	6.330	582742000	50.598 ng/mL
40)	4.4'-DDD #2	6.588	512682362	43.365 ng/mL
41)	Endosulfan II #2	6.678	641487424	46.596 ng/mL
42)	4,4'-DDT #2	7.099	337796752	41.291 ng/mL
43)	Endrin Aldehyde #2	7.248	477726328	45.635 ng/mL
44)	Methoxychlor #2	8.377	169931096	44.611 ng/mL
45)	Endosulfan Sulfate #2	7.725	499759394	44.588 ng/mL
46)	Endrin Ketone #2	8.643	550230936	48.928 ng/mL
47)	Decachlorobiphenyl #2	11.113	1780294836	168.088 ng/mL

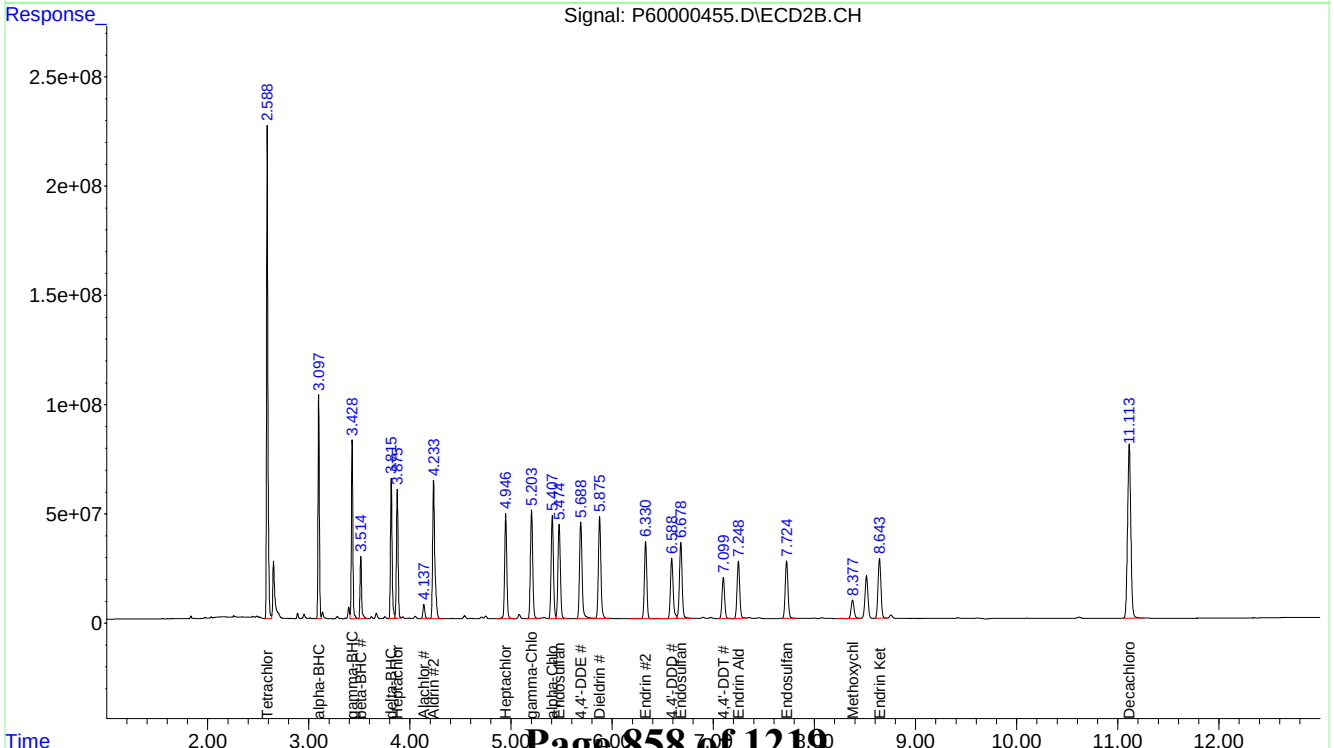
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000455.D
Acq On : 11 Feb 2020 4:17 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV4
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 16:31:18 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000477.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1201	Injection Date:	02/12/20
Lab Sample ID:	Y0B1201-CCV5	Injection Time:	07:11

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDD	A	50.0	40.1	5540073	4438856		-19.9	20
4,4'-DDD [2C]	A	50.0	40.5	1.182261E+07	9574114		-19.0	20
4,4'-DDE	A	50.0	43.7	5829589	5094054		-12.6	20
4,4'-DDE [2C]	A	50.0	44.4	1.688651E+07	1.500446E+07		-11.1	20
4,4'-DDT	A	50.0	40.1	3614976	2896942		-19.9	20
4,4'-DDT [2C]	A	50.0	41.6	7426936	6805528		-8.4	20
Aldrin	A	50.0	46.6	7327631	6828956		-6.8	20
Aldrin [2C]	A	50.0	50.4	1.754809E+07	1.770069E+07		0.9	20
alpha-BHC	A	50.0	45.5	9631694	8773768		-8.9	20
alpha-BHC [2C]	A	50.0	49.5	1.8416E+07	1.822892E+07		-1.0	20
alpha-Chlordane	A	50.0	40.3	7399746	5961504		-19.4	20
alpha-Chlordane [2C]	A	50.0	43.6	1.56799E+07	1.366767E+07		-12.8	20
beta-BHC	A	50.0	41.4	3158372	2614000		-17.2	20
beta-BHC [2C]	A	50.0	42.8	6902984	5908410		-14.4	20
delta-BHC	A	50.0	42.7	7125131	6090706		-14.5	20
delta-BHC [2C]	A	50.0	45.3	1.529397E+07	1.384469E+07		-9.5	20
Dieldrin	A	50.0	45.1	7025694	6334304		-9.8	20
Dieldrin [2C]	A	50.0	44.4	1.609941E+07	1.429811E+07		-11.2	20
Endosulfan I	A	50.0	42.1	8839524	7437516		-15.9	20
Endosulfan I [2C]	A	50.0	44.4	1.441512E+07	1.280663E+07		-11.2	20
Endosulfan II	A	50.0	40.5	6142618	4970204		-19.1	20
Endosulfan II [2C]	A	50.0	42.5	1.376713E+07	1.169499E+07		-15.1	20
Endosulfan sulfate	A	50.0	40.3	5379002	4334358		-19.4	20
Endosulfan sulfate [2C]	A	50.0	43.8	1.120846E+07	9817202		-12.4	20
Endrin	A	50.0	42.8	5824717	4989476		-14.3	20
Endrin [2C]	A	50.0	48.8	1.151704E+07	1.125149E+07		-2.3	20
Endrin aldehyde	A	50.0	40.1	5222092	4187250		-19.8	20
Endrin aldehyde [2C]	A	50.0	43.4	1.046834E+07	9088654		-13.2	20
Endrin ketone	A	50.0	43.5	5602748	4878486		-12.9	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000477.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1201	Injection Date:	02/12/20
Lab Sample ID:	Y0B1201-CCV5	Injection Time:	07:11

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin ketone [2C]	A	50.0	47.8	1.124582E+07	1.075148E+07		-4.4	20
gamma-BHC (Lindane)	A	50.0	48.3	8379909	8095892		-3.4	20
gamma-BHC (Lindane) [2C]	A	50.0	48.7	1.645183E+07	1.601359E+07		-2.7	20
gamma-Chlordane	A	50.0	42.0	7563848	6349728		-16.1	20
gamma-Chlordane [2C]	A	50.0	45.0	1.599526E+07	1.439512E+07		-10.0	20
Heptachlor	A	50.0	44.3	6903061	6113548		-11.4	20
Heptachlor [2C]	A	50.0	49.8	1.368298E+07	1.361801E+07		-0.5	20
Heptachlor epoxide	A	50.0	41.0	7458422	6118684		-18.0	20
Heptachlor epoxide [2C]	A	50.0	45.9	1.462001E+07	1.341938E+07		-8.2	20
Methoxychlor	A	50.0	40.2	5897718	4736274		-19.7	20
Methoxychlor [2C]	A	50.0	45.2	3809151	3441612		-9.6	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\1\data\021120A\
Data File : P60000477.D
Acq On : 12 Feb 2020 7:11 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV5
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 12 07:24:43 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

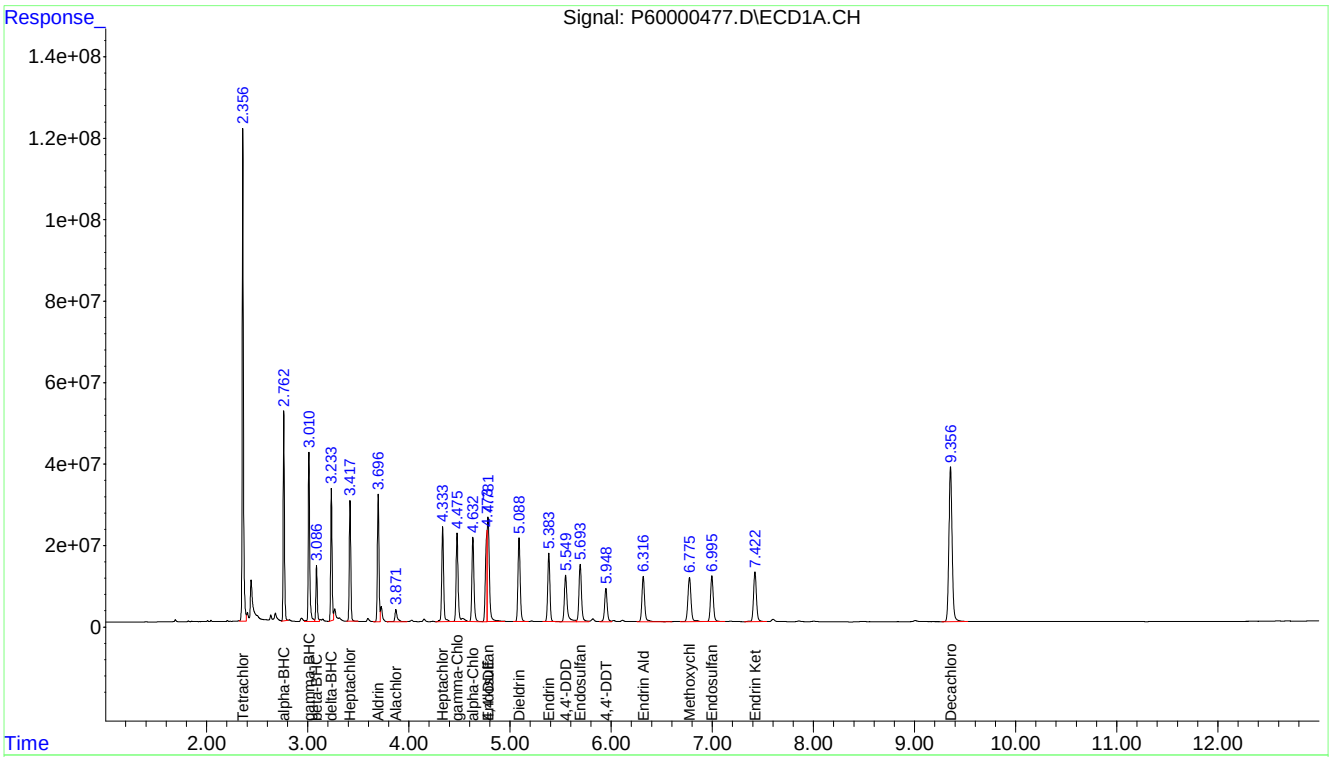
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.356	1003620752	158.963 ng/mLm
2)	alpha-BHC	2.763	438688445	45.546 ng/mL
3)	gamma-BHC (Lindane)	3.011	404794626	48.305 ng/mL
4)	beta-BHC	3.087	130700008	41.382 ng/mL
5)	delta-BHC	3.234	304535333	42.741 ng/mL
6)	Heptachlor	3.418	305677416	44.281 ng/mL
7)	Aldrin	3.696	341447800	46.597 ng/mL
8)	Alachlor	3.871	53145356	40.437 ng/mLm
9)	Heptachlor Epoxide	4.333	305934164	41.019 ng/mL
10)	gamma-Chlordane	4.475	317486403	41.974 ng/mLm
11)	alpha-Chlordane	4.632	298075217	40.282 ng/mL
12)	Endosulfan I	4.781	371875785	42.070 ng/mLm
13)	4,4'-DDE	4.773	254702697	43.691 ng/mLm
14)	Dieldrin	5.089	316715223	45.080 ng/mL
15)	Endrin	5.383	249473761	42.830 ng/mL
16)	4,4'-DDD	5.549	221942797	40.061 ng/mLm
17)	Endosulfan II	5.693	248510158	40.457 ng/mLm
18)	4,4'-DDT	5.948	144847091	40.069 ng/mLm
19)	Endrin Aldehyde	6.316	209362517	40.092 ng/mLm
20)	Methoxychlor	6.775	236813711	40.153 ng/mLm
21)	Endosulfan Sulfate	6.995	216717939	40.290 ng/mLm
22)	Endrin Ketone	7.422	243924251	43.537 ng/mL
23)	Decachlorobiphenyl	9.356	846519319	159.965 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	2078882593	170.085 ng/mL
26)	alpha-BHC #2	3.096	911446033	49.492 ng/mL
27)	gamma-BHC (lLindane) #2	3.427	800679461	48.668 ng/mL
28)	beta-BHC #2	3.513	295420487	42.796 ng/mL
29)	delta-BHC #2	3.814	692234566	45.262 ng/mL
30)	Heptachlor #2	3.874	680900589	49.763 ng/mL
31)	Aldrin #2	4.232	885034418	50.435 ng/mL
32)	Alachlor #2	4.136	85598237	40.048 ng/mLm
33)	Heptachlor Epoxide #2	4.945	670969160	45.894 ng/mL
34)	gamma-Chlordane #2	5.200	719756175	44.998 ng/mL
35)	alpha-Chlordane #2	5.405	683383296	43.583 ng/mL
36)	Endosulfan I #2	5.473	640331340	44.421 ng/mL
37)	4,4'-DDE #2	5.687	750222860	44.427 ng/mL
38)	Dieldrin #2	5.873	714905616	44.406 ng/mL
39)	Endrin #2	6.328	562574328	48.847 ng/mL
40)	4.4'-DDD #2	6.587	478705667	40.491 ng/mL
41)	Endosulfan II #2	6.676	584749349	42.474 ng/mL
42)	4,4'-DDT #2	7.097	340276440	41.607 ng/mL
43)	Endrin Aldehyde #2	7.245	454432744	43.410 ng/mL
44)	Methoxychlor #2	8.374	172080632	45.176 ng/mL
45)	Endosulfan Sulfate #2	7.723	490860074	43.794 ng/mL
46)	Endrin Ketone #2	8.640	537573760	47.802 ng/mL
47)	Decachlorobiphenyl #2	11.110	1783809387	168.419 ng/mL

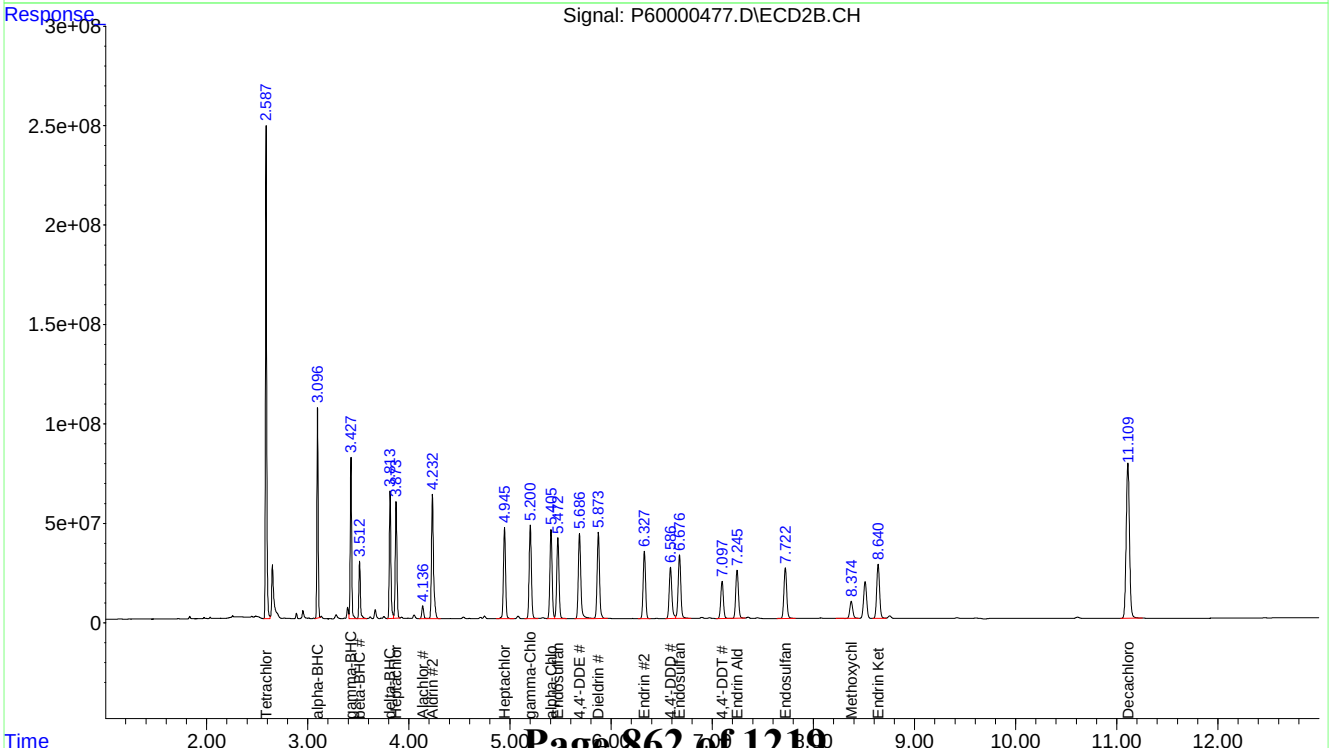
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000477.D
Acq On : 12 Feb 2020 7:11 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV5
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 12 07:24:43 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000527.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1401	Injection Date:	02/13/20
Lab Sample ID:	Y0B1401-CCV1	Injection Time:	07:36

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDD	A	50.0	40.0	5540073	4433986		-20.0	20
4,4'-DDD [2C]	A	50.0	41.5	1.182261E+07	9801608		-17.1	20
4,4'-DDE	A	50.0	45.6	5829589	5312922		-8.9	20
4,4'-DDE [2C]	A	50.0	47.8	1.688651E+07	1.613222E+07		-4.5	20
4,4'-DDT	A	50.0	40.5	3614976	2926544		-19.0	20
4,4'-DDT [2C]	A	50.0	41.5	7426936	6784868		-8.6	20
Aldrin	A	50.0	47.6	7327631	6978918		-4.8	20
Aldrin [2C]	A	50.0	53.3	1.754809E+07	1.872016E+07		6.7	20
alpha-BHC	A	50.0	47.0	9631694	9054042		-6.0	20
alpha-BHC [2C]	A	50.0	51.2	1.8416E+07	1.887366E+07		2.5	20
alpha-Chlordane	A	50.0	40.0	7399746	5926842		-19.9	20
alpha-Chlordane [2C]	A	50.0	43.8	1.56799E+07	1.372871E+07		-12.4	20
beta-BHC	A	50.0	41.6	3158372	2629554		-16.7	20
beta-BHC [2C]	A	50.0	44.3	6902984	6111726		-11.5	20
delta-BHC	A	50.0	43.4	7125131	6186702		-13.2	20
delta-BHC [2C]	A	50.0	45.1	1.529397E+07	1.380145E+07		-9.8	20
Dieldrin	A	50.0	43.8	7025694	6157142		-12.4	20
Dieldrin [2C]	A	50.0	44.4	1.609941E+07	1.430446E+07		-11.1	20
Endosulfan I	A	50.0	40.3	8839524	7115944		-19.5	20
Endosulfan I [2C]	A	50.0	43.1	1.441512E+07	1.242779E+07		-13.8	20
Endosulfan II	A	50.0	40.1	6142618	4926260		-19.8	20
Endosulfan II [2C]	A	50.0	41.0	1.376713E+07	1.130192E+07		-17.9	20
Endosulfan sulfate	A	50.0	41.0	5379002	4411620		-18.0	20
Endosulfan sulfate [2C]	A	50.0	43.4	1.120846E+07	9736256		-13.1	20
Endrin	A	50.0	42.4	5824717	4939860		-15.2	20
Endrin [2C]	A	50.0	49.1	1.151704E+07	1.131912E+07		-1.7	20
Endrin aldehyde	A	50.0	40.0	5222092	4179296		-20.0	20
Endrin aldehyde [2C]	A	50.0	43.6	1.046834E+07	9123764		-12.8	20
Endrin ketone	A	50.0	43.6	5602748	4886350		-12.8	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000527.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1401	Injection Date:	02/13/20
Lab Sample ID:	Y0B1401-CCV1	Injection Time:	07:36

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin ketone [2C]	A	50.0	47.6	1.124582E+07	1.070754E+07		-4.8	20
gamma-BHC (Lindane)	A	50.0	49.7	8379909	8329986		-0.6	20
gamma-BHC (Lindane) [2C]	A	50.0	50.0	1.645183E+07	1.644346E+07		-0.05	20
gamma-Chlordane	A	50.0	41.5	7563848	6274982		-17.0	20
gamma-Chlordane [2C]	A	50.0	45.4	1.599526E+07	1.450977E+07		-9.3	20
Heptachlor	A	50.0	45.6	6903061	6290282		-8.9	20
Heptachlor [2C]	A	50.0	50.5	1.368298E+07	1.38123E+07		0.9	20
Heptachlor epoxide	A	50.0	40.5	7458422	6047092		-18.9	20
Heptachlor epoxide [2C]	A	50.0	46.3	1.462001E+07	1.354404E+07		-7.4	20
Methoxychlor	A	50.0	40.5	5897718	4779846		-19.0	20
Methoxychlor [2C]	A	50.0	48.0	3809151	3660370		-3.9	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\1\data\021320A\
Data File : P60000527.D
Acq On : 13 Feb 2020 7:36 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV1
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 13 07:50:23 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

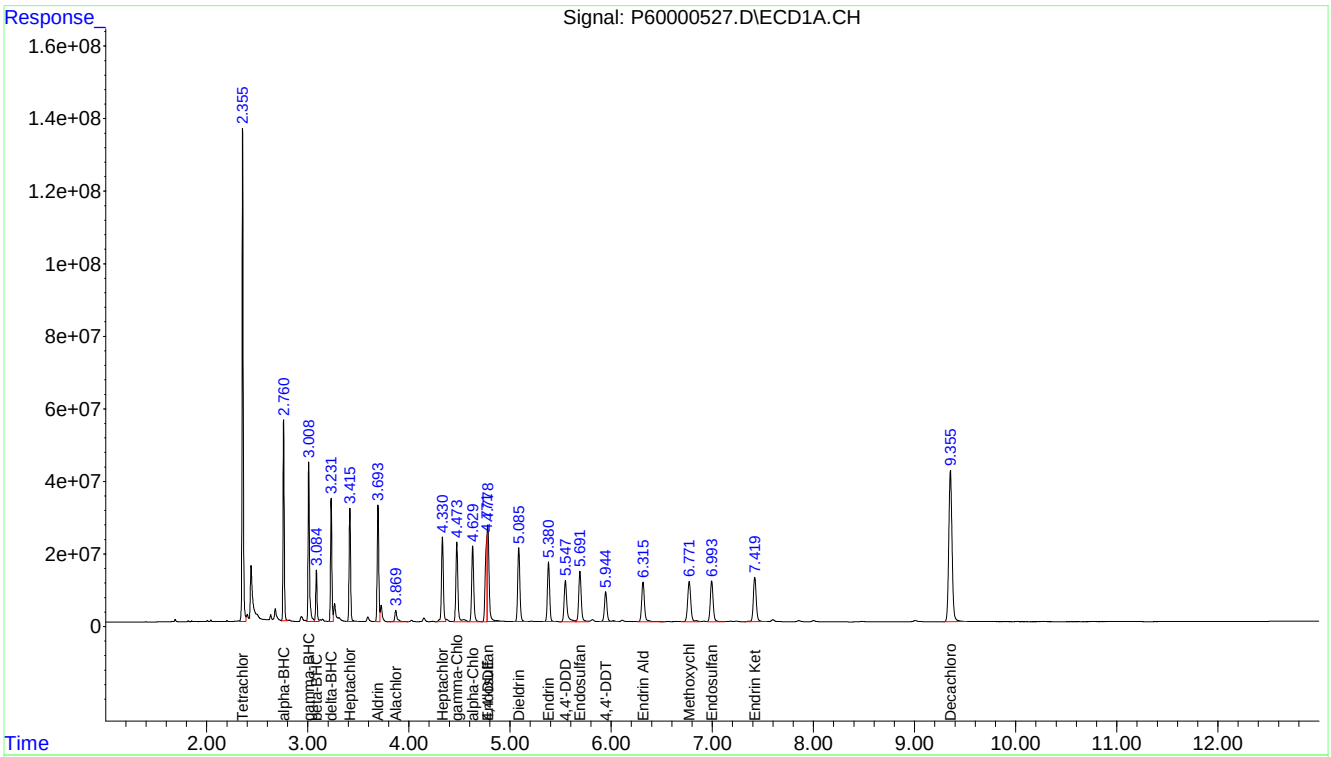
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	1066825725	168.974 ng/mLm
2)	alpha-BHC	2.761	452702106	47.001 ng/mL
3)	gamma-BHC (Lindane)	3.009	416499333	49.702 ng/mL
4)	beta-BHC	3.085	131477690	41.628 ng/mL
5)	delta-BHC	3.231	309335115	43.415 ng/mL
6)	Heptachlor	3.416	314514104	45.562 ng/mL
7)	Aldrin	3.694	348945919	47.621 ng/mL
8)	Alachlor	3.869	52613480	40.033 ng/mLm
9)	Heptachlor Epoxide	4.330	302354636	40.539 ng/mL
10)	gamma-Chlordane	4.473	313749080	41.480 ng/mLm
11)	alpha-Chlordane	4.629	296342113	40.048 ng/mLm
12)	Endosulfan I	4.778	355797243	40.251 ng/mLm
13)	4,4'-DDE	4.771	265646136	45.569 ng/mLm
14)	Dieldrin	5.086	307857112	43.819 ng/mL
15)	Endrin	5.380	246992970	42.404 ng/mL
16)	4,4'-DDD	5.547	221699339	40.017 ng/mLm
17)	Endosulfan II	5.691	246313022	40.099 ng/mLm
18)	4,4'-DDT	5.944	146327159	40.478 ng/mLm
19)	Endrin Aldehyde	6.315	208964790	40.016 ng/mLm
20)	Methoxychlor	6.771	238992305	40.523 ng/mLm
21)	Endosulfan Sulfate	6.993	220580983	41.008 ng/mLm
22)	Endrin Ketone	7.419	244317535	43.607 ng/mL
23)	Decachlorobiphenyl	9.355	933755631	176.450 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	2200372655	180.025 ng/mL
26)	alpha-BHC #2	3.096	943683070	51.243 ng/mL
27)	gamma-BHC (lLindane) #2	3.427	822173199	49.975 ng/mL
28)	beta-BHC #2	3.513	305586330	44.269 ng/mL
29)	delta-BHC #2	3.813	690072713	45.121 ng/mL
30)	Heptachlor #2	3.873	690614887	50.473 ng/mL
31)	Aldrin #2	4.232	936007964	53.340 ng/mL
32)	Alachlor #2	4.136	88094476	41.216 ng/mL
33)	Heptachlor Epoxide #2	4.944	677202176	46.320 ng/mL
34)	gamma-Chlordane #2	5.200	725488332	45.356 ng/mL
35)	alpha-Chlordane #2	5.404	686435287	43.778 ng/mL
36)	Endosulfan I #2	5.472	621389331	43.107 ng/mL
37)	4,4'-DDE #2	5.686	806611000	47.767 ng/mL
38)	Dieldrin #2	5.872	715222824	44.425 ng/mL
39)	Endrin #2	6.328	565956208	49.141 ng/mL
40)	4.4'-DDD #2	6.587	490080361	41.453 ng/mL
41)	Endosulfan II #2	6.676	565096115	41.047 ng/mL
42)	4,4'-DDT #2	7.096	339243416	41.475 ng/mL
43)	Endrin Aldehyde #2	7.246	456188168	43.578 ng/mL
44)	Methoxychlor #2	8.374	183018529	48.047 ng/mL
45)	Endosulfan Sulfate #2	7.723	486812795	43.433 ng/mL
46)	Endrin Ketone #2	8.641	535377136	47.607 ng/mL
47)	Decachlorobiphenyl #2	11.111	2054105333	193.940 ng/mL

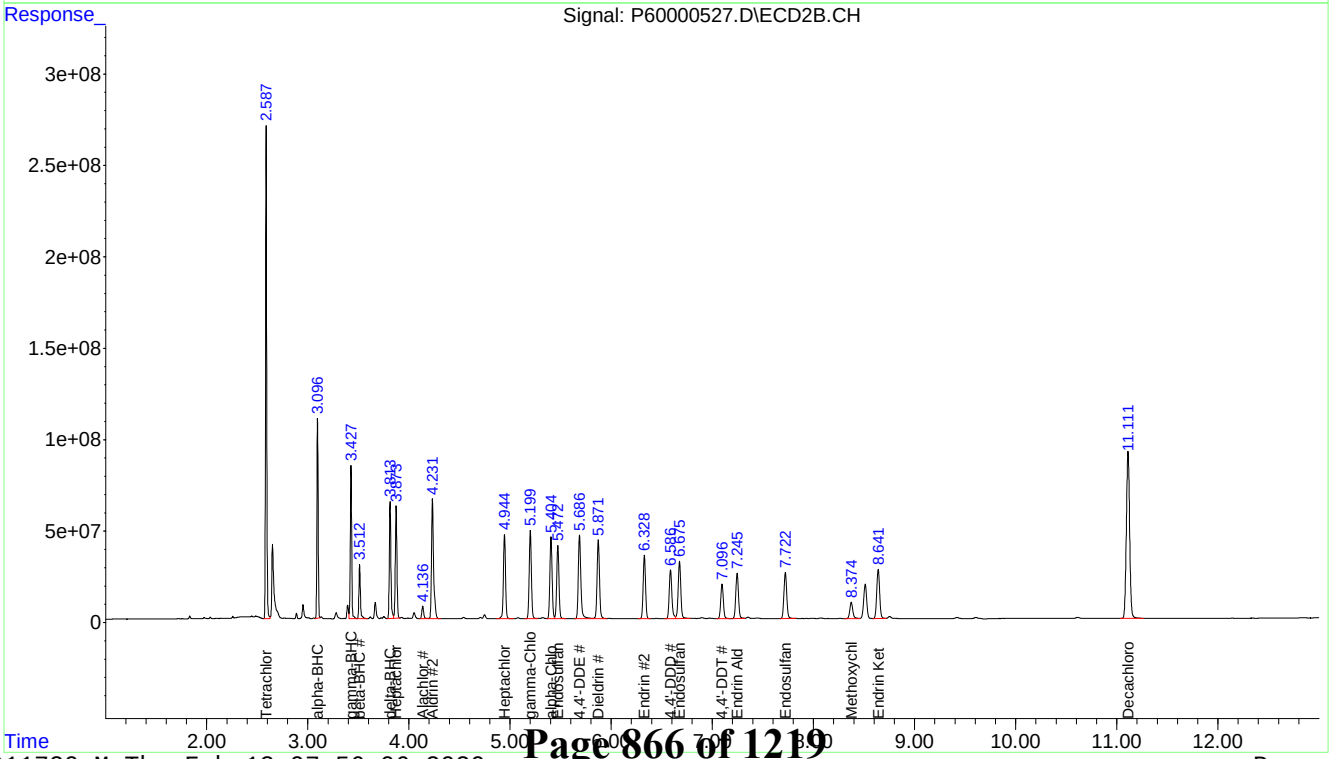
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000527.D
Acq On : 13 Feb 2020 7:36 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV1
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 13 07:50:23 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000525.D
Acq On : 13 Feb 2020 7:03 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV2
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 3 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 08:33:27 2020
Quant Method : C:\msdchem\C6120219.M
Quant Title : Chlrodane, total -Pesticides 8081/608
QLast Update : Tue Dec 03 08:16:32 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

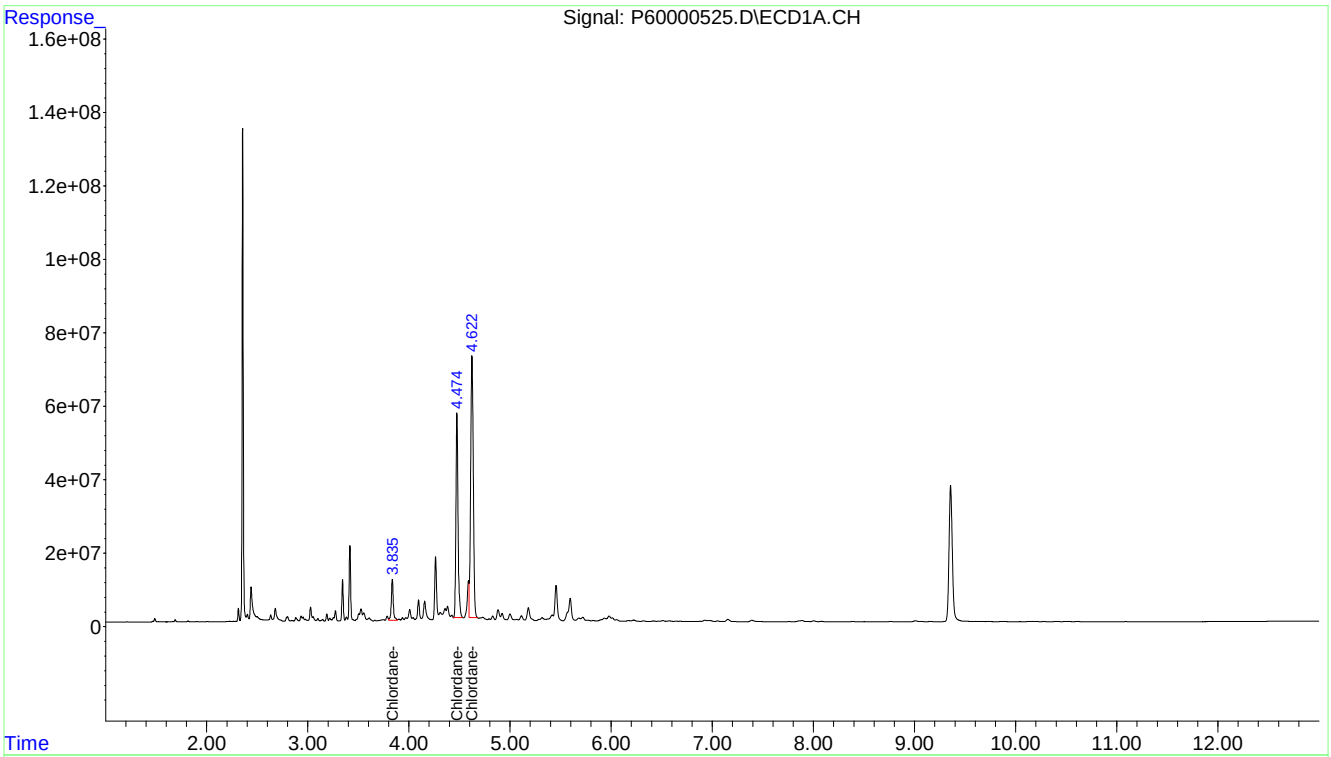
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
Target Compounds							
1)	Chlordane-1	3.835f	4.419f	153.1E6	322.7E6	1.043m	0.892m
2)	Chlordane-2	4.474f	5.201	807.9E6	1873.1E6	1.120m	1.089
3)	Chlordane-3	4.622	5.405	1297.5E6	3231.6E6	1.100m	1.073m

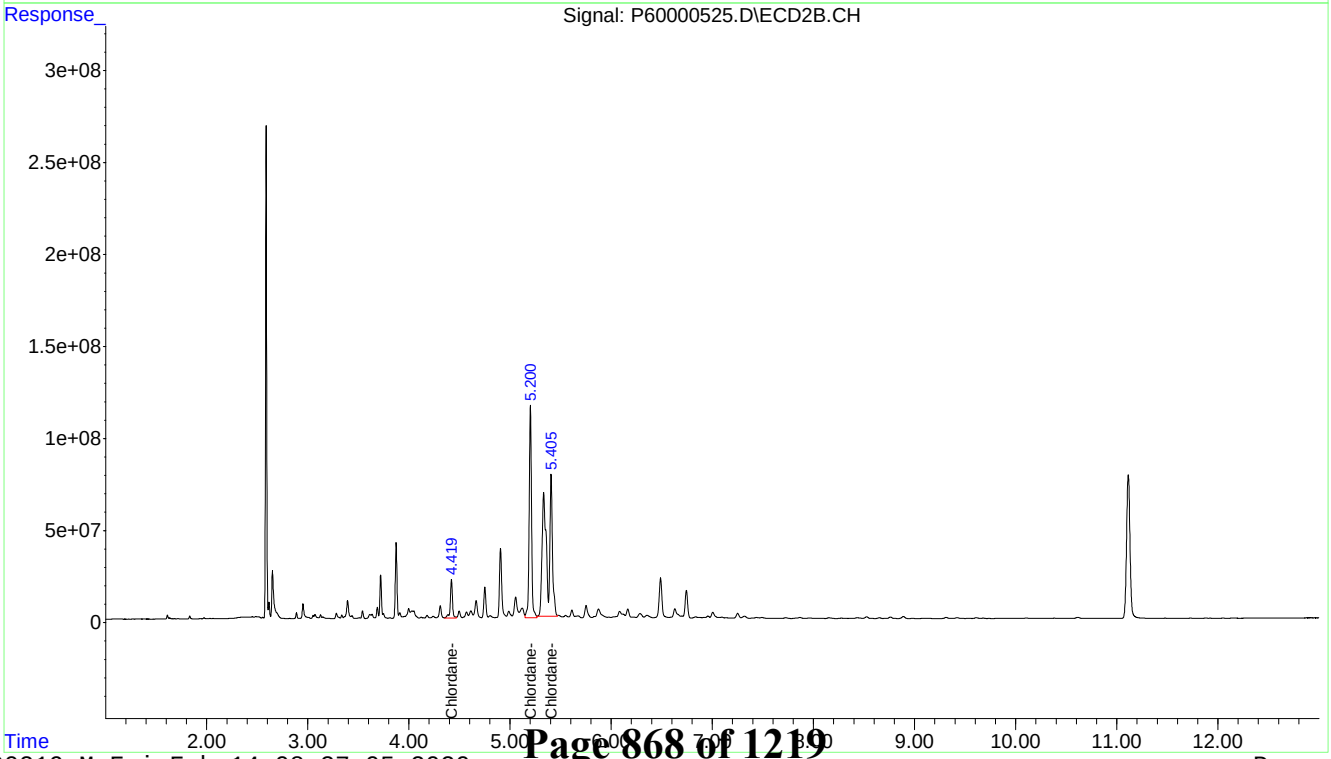
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000525.D
Acq On : 13 Feb 2020 7:03 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV2
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 3 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 08:33:27 2020
Quant Method : C:\msdchem\C6120219.M
Quant Title : Chlrodane, total -Pesticides 8081/608
QLast Update : Tue Dec 03 08:16:32 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000526.D
Acq On : 13 Feb 2020 7:20 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV3
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 4 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 08:40:18 2020
Quant Method : C:\msdchem\T6120219.M
Quant Title : Chlrodane, total -Pesticides 8081/608
QLast Update : Tue Dec 03 08:34:03 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

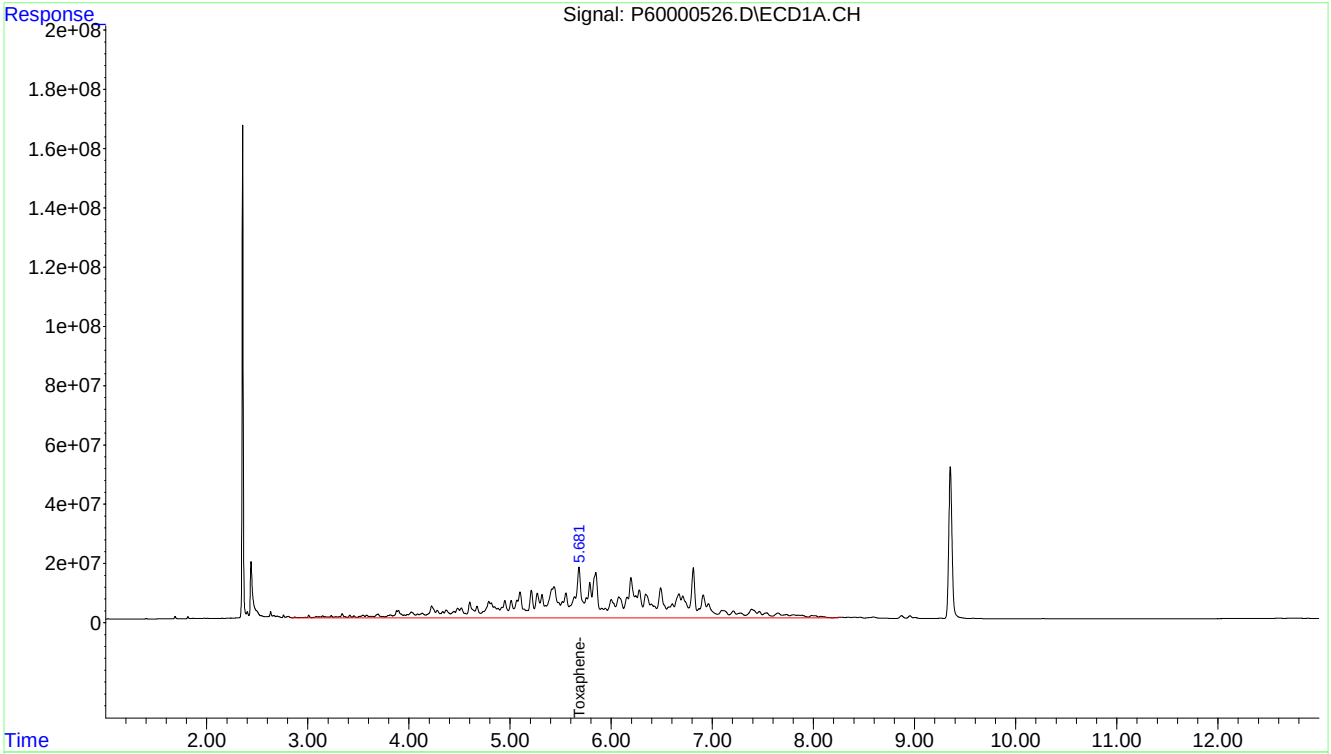
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Toxaphene-1	5.681	9932941352	1.998 ug/mLm
3)	Toxaphene #2	6.814	25008853985	1.856 ug/mLm

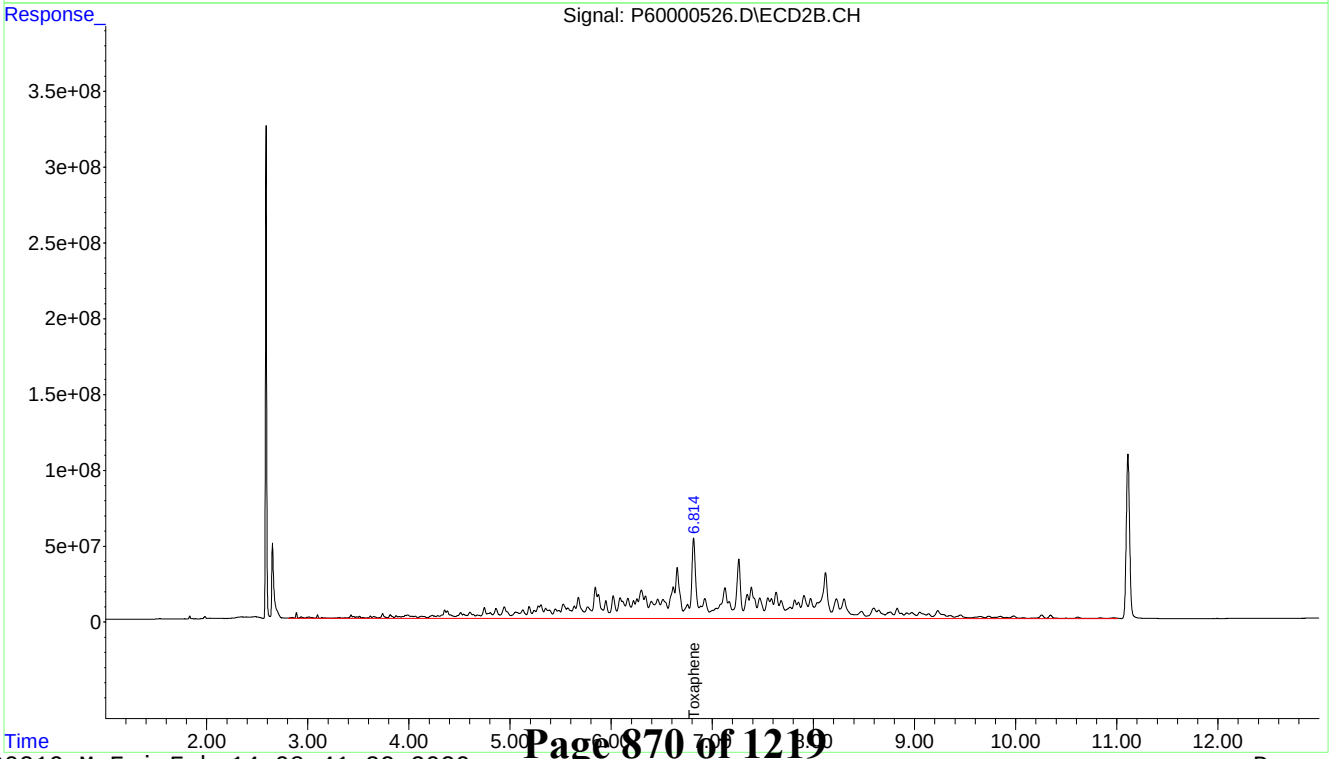
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000526.D
Acq On : 13 Feb 2020 7:20 am
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV3
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 4 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 08:40:18 2020
Quant Method : C:\msdchem\T6120219.M
Quant Title : Chlrodane, total -Pesticides 8081/608
QLast Update : Tue Dec 03 08:34:03 2019
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000543.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1401	Injection Date:	02/13/20
Lab Sample ID:	Y0B1401-CCV4	Injection Time:	12:19

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDD	A	50.0	55.5	5540073	6150430		11.0	20	
4,4'-DDD [2C]	A	50.0	59.5	1.182261E+07	1.406747E+07		19.0	20	
4,4'-DDE	A	50.0	52.3	5829589	6098944		4.6	20	
4,4'-DDE [2C]	A	50.0	52.1	1.688651E+07	1.760247E+07		4.2	20	
4,4'-DDT	A	50.0	56.4	3614976	4080460		12.9	20	
4,4'-DDT [2C]	A	50.0	58.5	7426936	9406296		26.7	20	*
Aldrin	A	50.0	47.0	7327631	6880792		-6.1	20	
Aldrin [2C]	A	50.0	48.4	1.754809E+07	1.69892E+07		-3.2	20	
alpha-BHC	A	50.0	48.8	9631694	9405252		-2.4	20	
alpha-BHC [2C]	A	50.0	52.2	1.8416E+07	1.923303E+07		4.4	20	
alpha-Chlordane	A	50.0	47.9	7399746	7089668		-4.2	20	
alpha-Chlordane [2C]	A	50.0	56.0	1.56799E+07	1.757446E+07		12.1	20	
beta-BHC	A	50.0	42.2	3158372	2665546		-15.6	20	
beta-BHC [2C]	A	50.0	43.4	6902984	5995702		-13.1	20	
delta-BHC	A	50.0	45.5	7125131	6477852		-9.1	20	
delta-BHC [2C]	A	50.0	44.9	1.529397E+07	1.37399E+07		-10.2	20	
Dieldrin	A	50.0	58.4	7025694	8206370		16.8	20	
Dieldrin [2C]	A	50.0	57.8	1.609941E+07	1.859669E+07		15.5	20	
Endosulfan I	A	50.0	54.4	8839524	9623954		8.9	20	
Endosulfan I [2C]	A	50.0	56.1	1.441512E+07	1.616153E+07		12.1	20	
Endosulfan II	A	50.0	53.3	6142618	6544778		6.5	20	
Endosulfan II [2C]	A	50.0	56.9	1.376713E+07	1.56568E+07		13.7	20	
Endosulfan sulfate	A	50.0	49.6	5379002	5335990		-0.8	20	
Endosulfan sulfate [2C]	A	50.0	54.7	1.120846E+07	1.225848E+07		9.4	20	
Endrin	A	50.0	54.6	5824717	6363816		9.3	20	
Endrin [2C]	A	50.0	58.8	1.151704E+07	1.355232E+07		17.7	20	
Endrin aldehyde	A	50.0	46.2	5222092	4824916		-7.6	20	
Endrin aldehyde [2C]	A	50.0	52.6	1.046834E+07	1.101909E+07		5.3	20	
Endrin ketone	A	50.0	53.5	5602748	5992890		7.0	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000543.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1401	Injection Date:	02/13/20
Lab Sample ID:	Y0B1401-CCV4	Injection Time:	12:19

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Endrin ketone [2C]	A	50.0	63.4	1.124582E+07	1.424949E+07		26.7	20	*
gamma-BHC (Lindane)	A	50.0	47.4	8379909	7941318		-5.2	20	
gamma-BHC (Lindane) [2C]	A	50.0	53.1	1.645183E+07	1.74715E+07		6.2	20	
gamma-Chlordane	A	50.0	41.5	7563848	6276988		-17.0	20	
gamma-Chlordane [2C]	A	50.0	55.8	1.599526E+07	1.784671E+07		11.6	20	
Heptachlor	A	50.0	50.4	6903061	6960552		0.8	20	
Heptachlor [2C]	A	50.0	54.8	1.368298E+07	1.499528E+07		9.6	20	
Heptachlor epoxide	A	50.0	52.9	7458422	7897290		5.9	20	
Heptachlor epoxide [2C]	A	50.0	55.2	1.462001E+07	1.6149E+07		10.5	20	
Methoxychlor	A	50.0	54.6	5897718	6446194		9.3	20	
Methoxychlor [2C]	A	50.0	66.7	3809151	5077862		33.3	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\1\data\021320A\
Data File : P60000543.D
Acq On : 13 Feb 2020 12:19 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV4 (Sig #1); PRIMER (Sig #2)
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 13 12:33:03 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

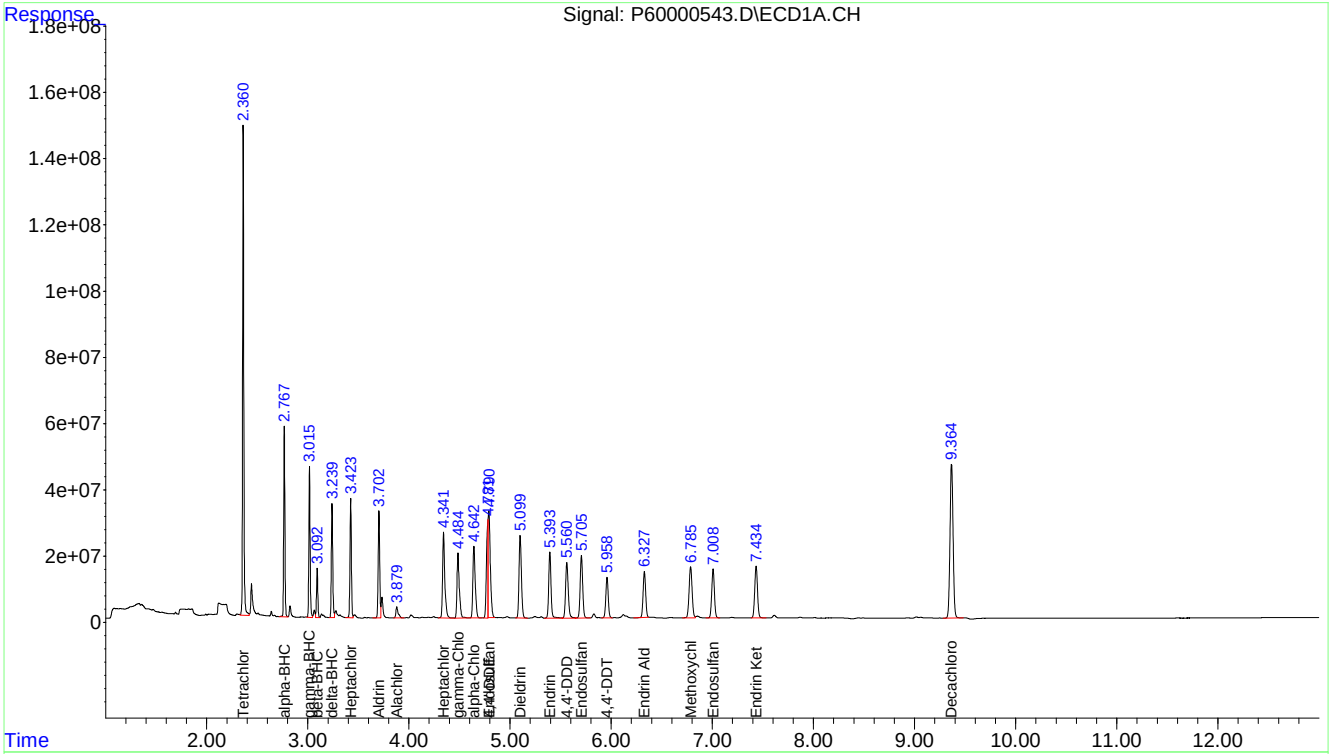
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Tetrachloro-m-Xylene	2.360	1179029524	186.746 ng/mLm
2)	alpha-BHC	2.767	470262561	48.824 ng/mL
3)	gamma-BHC (Lindane)	3.016	397065859	47.383 ng/mL
4)	beta-BHC	3.092	133277269	42.198 ng/mL
5)	delta-BHC	3.239	323892594	45.458 ng/mL
6)	Heptachlor	3.424	348027612	50.416 ng/mL
7)	Aldrin	3.703	344039564	46.951 ng/mL
8)	Alachlor	3.879	53405510	40.635 ng/mLm
9)	Heptachlor Epoxide	4.342	394864537	52.942 ng/mL
10)	gamma-Chlordane	4.485	313849404	41.493 ng/mL
11)	alpha-Chlordane	4.642	354483396	47.905 ng/mL
12)	Endosulfan I	4.790	481197692	54.437 ng/mLm
13)	4,4'-DDE	4.781	304947246	52.310 ng/mLm
14)	Dieldrin	5.099	410318480	58.403 ng/mL
15)	Endrin	5.393	318190794	54.628 ng/mL
16)	4,4'-DDD	5.561	307521552	55.509 ng/mL
17)	Endosulfan II	5.705	327238894	53.274 ng/mL
18)	4,4'-DDT	5.959	204023024	56.438 ng/mL
19)	Endrin Aldehyde	6.328	241245752	46.197 ng/mL
20)	Methoxychlor	6.785	322309715	54.650 ng/mL
21)	Endosulfan Sulfate	7.008	266799454	49.600 ng/mL
22)	Endrin Ketone	7.434	299644552	53.482 ng/mL
23)	Decachlorobiphenyl	9.366	987830496	186.668 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	2318729401	189.709 ng/mL
26)	alpha-BHC #2	3.097	961651635	52.218 ng/mL
27)	gamma-BHC (lLindane) #2	3.428	873575172	53.099 ng/mL
28)	beta-BHC #2	3.514	299785120	43.428 ng/mL
29)	delta-BHC #2	3.815	686994891	44.919 ng/mL
30)	Heptachlor #2	3.875	749764062	54.795 ng/mL
31)	Aldrin #2	4.234	849460229	48.408 ng/mL
32)	Alachlor #2	4.138	116757842	54.626 ng/mL
33)	Heptachlor Epoxide #2	4.949	807450133	55.229 ng/mL
34)	gamma-Chlordane #2	5.204	892335537	55.788 ng/mL
35)	alpha-Chlordane #2	5.409	878722889	56.041 ng/mL
36)	Endosulfan I #2	5.477	808076341	56.058 ng/mL
37)	4,4'-DDE #2	5.690	880123352	52.120 ng/mL
38)	Dieldrin #2	5.877	929834458	57.756 ng/mL
39)	Endrin #2	6.332	677615937	58.836 ng/mL
40)	4.4'-DDD #2	6.589	703373633	59.494 ng/mLm
41)	Endosulfan II #2	6.680	782839865	56.863 ng/mL
42)	4,4'-DDT #2	7.100	470314760	58.461 ng/mL
43)	Endrin Aldehyde #2	7.248	550954325	52.631 ng/mL
44)	Methoxychlor #2	8.379	253893139	66.653 ng/mLm
45)	Endosulfan Sulfate #2	7.727	612923885	54.684 ng/mL
46)	Endrin Ketone #2	8.645	712474387	63.355 ng/mLm
47)	Decachlorobiphenyl #2	11.114	1988843432	187.778 ng/mL

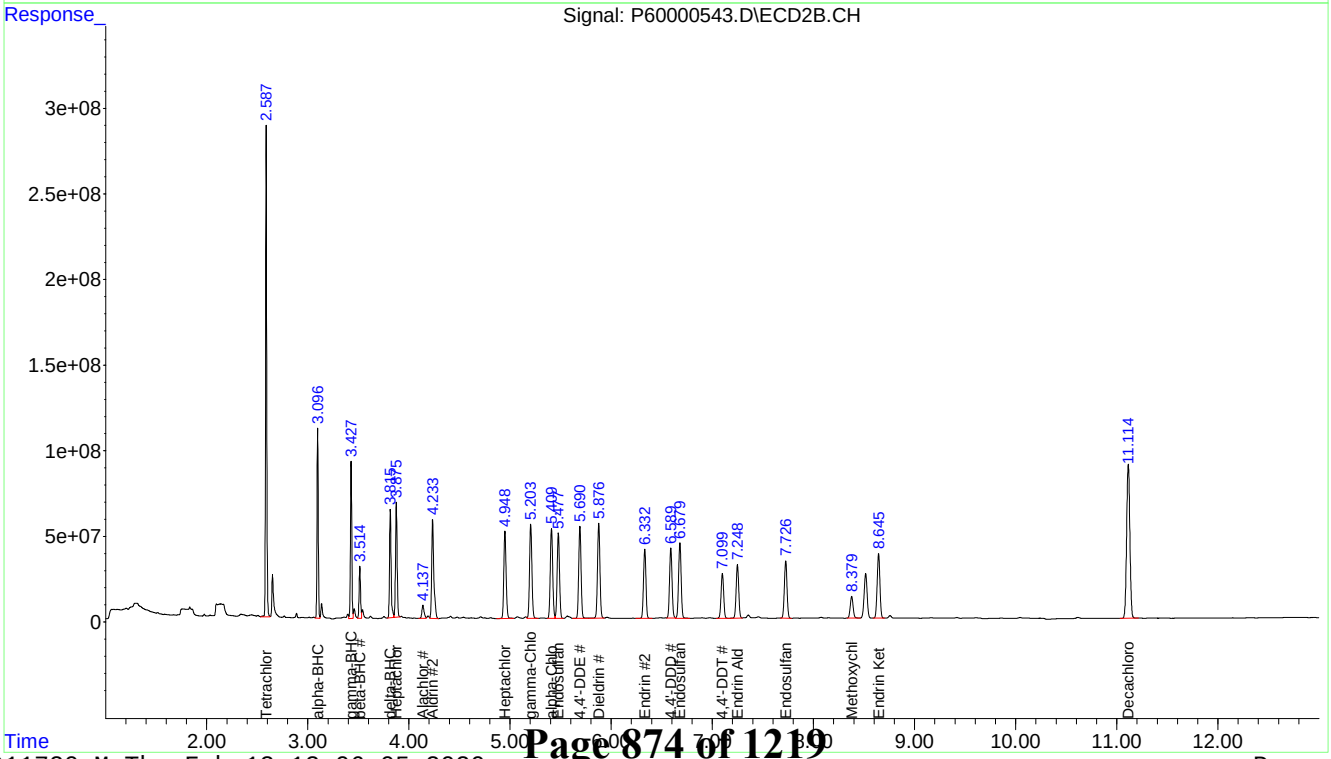
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000543.D
Acq On : 13 Feb 2020 12:19 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV4 (Sig #1); PRIMER (Sig #2)
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 13 12:33:03 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000565.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1401	Injection Date:	02/13/20
Lab Sample ID:	Y0B1401-CCV5	Injection Time:	18:40

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDD	A	50.0	46.2	5540073	5115412		-7.7	20
4,4'-DDD [2C]	A	50.0	49.2	1.182261E+07	1.162963E+07		-1.6	20
4,4'-DDE	A	50.0	43.9	5829589	5115548		-12.2	20
4,4'-DDE [2C]	A	50.0	49.8	1.688651E+07	1.682758E+07		-0.3	20
4,4'-DDT	A	50.0	47.0	3614976	3399734		-6.0	20
4,4'-DDT [2C]	A	50.0	49.4	7426936	8025850		8.1	20
Aldrin	A	50.0	51.4	7327631	7530484		2.8	20
Aldrin [2C]	A	50.0	52.8	1.754809E+07	1.853811E+07		5.6	20
alpha-BHC	A	50.0	50.9	9631694	9799594		1.7	20
alpha-BHC [2C]	A	50.0	55.0	1.8416E+07	2.027604E+07		10.1	20
alpha-Chlordane	A	50.0	46.7	7399746	6918132		-6.5	20
alpha-Chlordane [2C]	A	50.0	50.1	1.56799E+07	1.571589E+07		0.2	20
beta-BHC	A	50.0	47.2	3158372	2984208		-5.5	20
beta-BHC [2C]	A	50.0	50.3	6902984	6942192		0.6	20
delta-BHC	A	50.0	49.4	7125131	7039964		-1.2	20
delta-BHC [2C]	A	50.0	51.5	1.529397E+07	1.574795E+07		3.0	20
Dieldrin	A	50.0	51.3	7025694	7213228		2.7	20
Dieldrin [2C]	A	50.0	51.2	1.609941E+07	1.649127E+07		2.4	20
Endosulfan I	A	50.0	43.2	8839524	7631466		-13.7	20
Endosulfan I [2C]	A	50.0	50.6	1.441512E+07	1.458779E+07		1.2	20
Endosulfan II	A	50.0	45.2	6142618	5555244		-9.6	20
Endosulfan II [2C]	A	50.0	47.5	1.376713E+07	1.308938E+07		-4.9	20
Endosulfan sulfate	A	50.0	44.7	5379002	4804808		-10.7	20
Endosulfan sulfate [2C]	A	50.0	48.7	1.120846E+07	1.090987E+07		-2.7	20
Endrin	A	50.0	49.5	5824717	5761968		-1.1	20
Endrin [2C]	A	50.0	56.5	1.151704E+07	1.301252E+07		13.0	20
Endrin aldehyde	A	50.0	41.1	5222092	4291120		-17.8	20
Endrin aldehyde [2C]	A	50.0	45.6	1.046834E+07	9553348		-8.7	20
Endrin ketone	A	50.0	48.9	5602748	5483574		-2.1	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	GCECD6	Calibration:	YA00016
Lab File ID:	P60000565.D	Calibration Date:	01/17/20 08:36
Sequence:	Y0B1401	Injection Date:	02/13/20
Lab Sample ID:	Y0B1401-CCV5	Injection Time:	18:40

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin ketone [2C]	A	50.0	52.6	1.124582E+07	1.182848E+07		5.2	20
gamma-BHC (Lindane)	A	50.0	51.9	8379909	8704504		3.9	20
gamma-BHC (Lindane) [2C]	A	50.0	54.0	1.645183E+07	1.776883E+07		8.0	20
gamma-Chlordane	A	50.0	45.7	7563848	6910780		-8.6	20
gamma-Chlordane [2C]	A	50.0	50.8	1.599526E+07	1.624842E+07		1.6	20
Heptachlor	A	50.0	49.7	6903061	6866938		-0.5	20
Heptachlor [2C]	A	50.0	54.1	1.368298E+07	1.479887E+07		8.2	20
Heptachlor epoxide	A	50.0	46.6	7458422	6955988		-6.7	20
Heptachlor epoxide [2C]	A	50.0	51.2	1.462001E+07	1.496492E+07		2.4	20
Methoxychlor	A	50.0	43.4	5897718	5113720		-13.3	20
Methoxychlor [2C]	A	50.0	55.2	3809151	4203690		10.4	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\1\data\021320A\
Data File : P60000565.D
Acq On : 13 Feb 2020 6:40 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV5
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 06:04:28 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

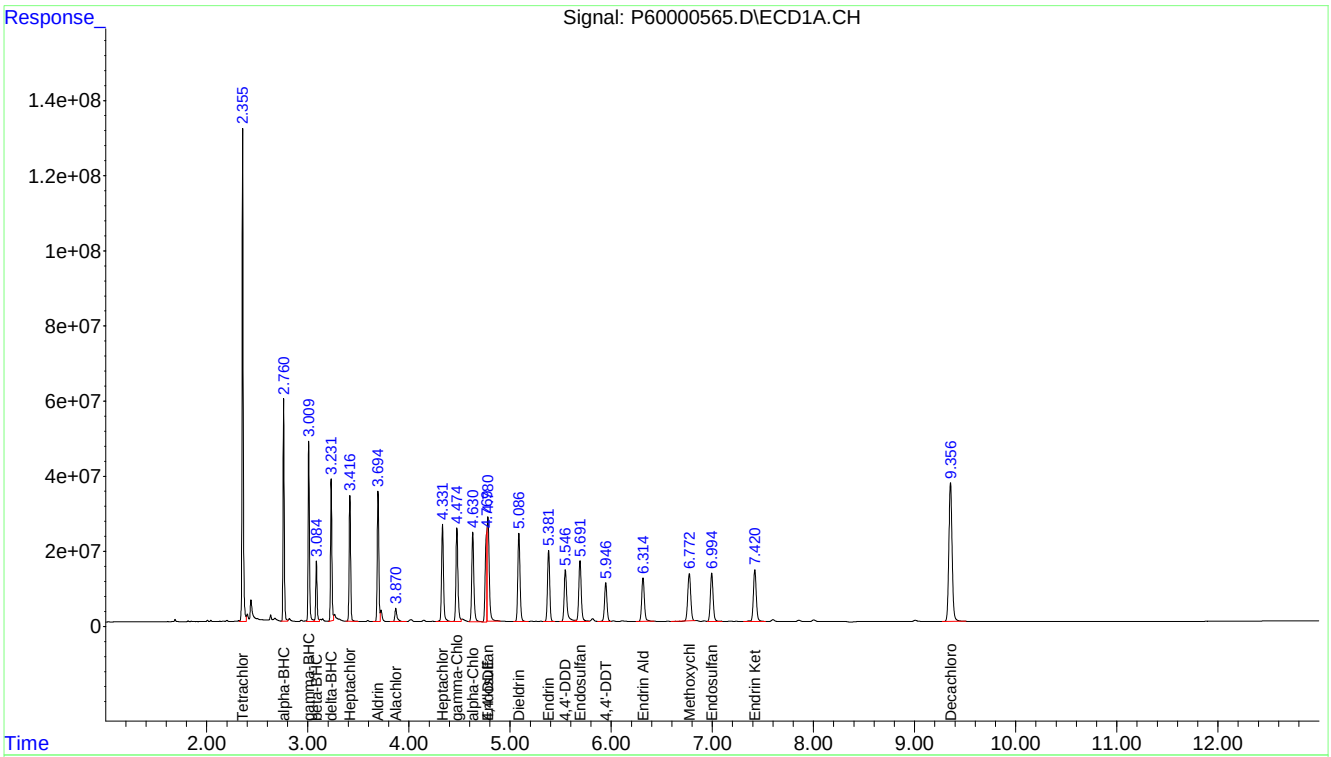
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	1045447174	165.588 ng/mLm
2)	alpha-BHC	2.761	489979717	50.872 ng/mL
3)	gamma-BHC (Lindane)	3.009	435225207	51.937 ng/mL
4)	beta-BHC	3.085	149210450	47.243 ng/mL
5)	delta-BHC	3.232	351998181	49.402 ng/mL
6)	Heptachlor	3.416	343346904	49.738 ng/mL
7)	Aldrin	3.694	376524176	51.384 ng/mL
8)	Alachlor	3.870	53012705	40.337 ng/mLm
9)	Heptachlor Epoxide	4.332	347799404	46.632 ng/mL
10)	gamma-Chlordane	4.474	345538994	45.683 ng/mL
11)	alpha-Chlordane	4.631	345906629	46.746 ng/mL
12)	Endosulfan I	4.780	381573355	43.167 ng/mLm
13)	4,4'-DDE	4.769	255777421	43.876 ng/mLm
14)	Dieldrin	5.087	360661433	51.335 ng/mL
15)	Endrin	5.381	288098448	49.461 ng/mL
16)	4,4'-DDD	5.546	255770585	46.167 ng/mL
17)	Endosulfan II	5.691	277762227	45.219 ng/mL
18)	4,4'-DDT	5.946	169986698	47.023 ng/mL
19)	Endrin Aldehyde	6.315	214556008	41.086 ng/mL
20)	Methoxychlor	6.773	255686002	43.353 ng/mL
21)	Endosulfan Sulfate	6.994	240240432	44.663 ng/mL
22)	Endrin Ketone	7.421	274178662	48.936 ng/mL
23)	Decachlorobiphenyl	9.356	831144217	157.060 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	2153857445	176.219 ng/mL
26)	alpha-BHC #2	3.096	1013802098	55.050 ng/mL
27)	gamma-BHC (lLindane) #2	3.427	888441572	54.003 ng/mL
28)	beta-BHC #2	3.513	347109596	50.284 ng/mL
29)	delta-BHC #2	3.814	787397290	51.484 ng/mL
30)	Heptachlor #2	3.873	739943433	54.078 ng/mL
31)	Aldrin #2	4.232	926905592	52.821 ng/mL
32)	Alachlor #2	4.136	98899793	46.271 ng/mL
33)	Heptachlor Epoxide #2	4.945	748246136	51.180 ng/mL
34)	gamma-Chlordane #2	5.200	812421108	50.791 ng/mL
35)	alpha-Chlordane #2	5.404	785794564	50.115 ng/mL
36)	Endosulfan I #2	5.473	729389692	50.599 ng/mL
37)	4,4'-DDE #2	5.686	841378873	49.826 ng/mL
38)	Dieldrin #2	5.873	824563439	51.217 ng/mL
39)	Endrin #2	6.328	650625936	56.492 ng/mL
40)	4.4'-DDD #2	6.586	581481538	49.184 ng/mL
41)	Endosulfan II #2	6.676	654468806	47.539 ng/mL
42)	4,4'-DDT #2	7.097	401292492	49.443 ng/mL
43)	Endrin Aldehyde #2	7.245	477667436	45.630 ng/mL
44)	Methoxychlor #2	8.376	210184552	55.179 ng/mL
45)	Endosulfan Sulfate #2	7.722	545493518	48.668 ng/mL
46)	Endrin Ketone #2	8.642	591423872	52.591 ng/mL
47)	Decachlorobiphenyl #2	11.111	1784076008	168.445 ng/mL

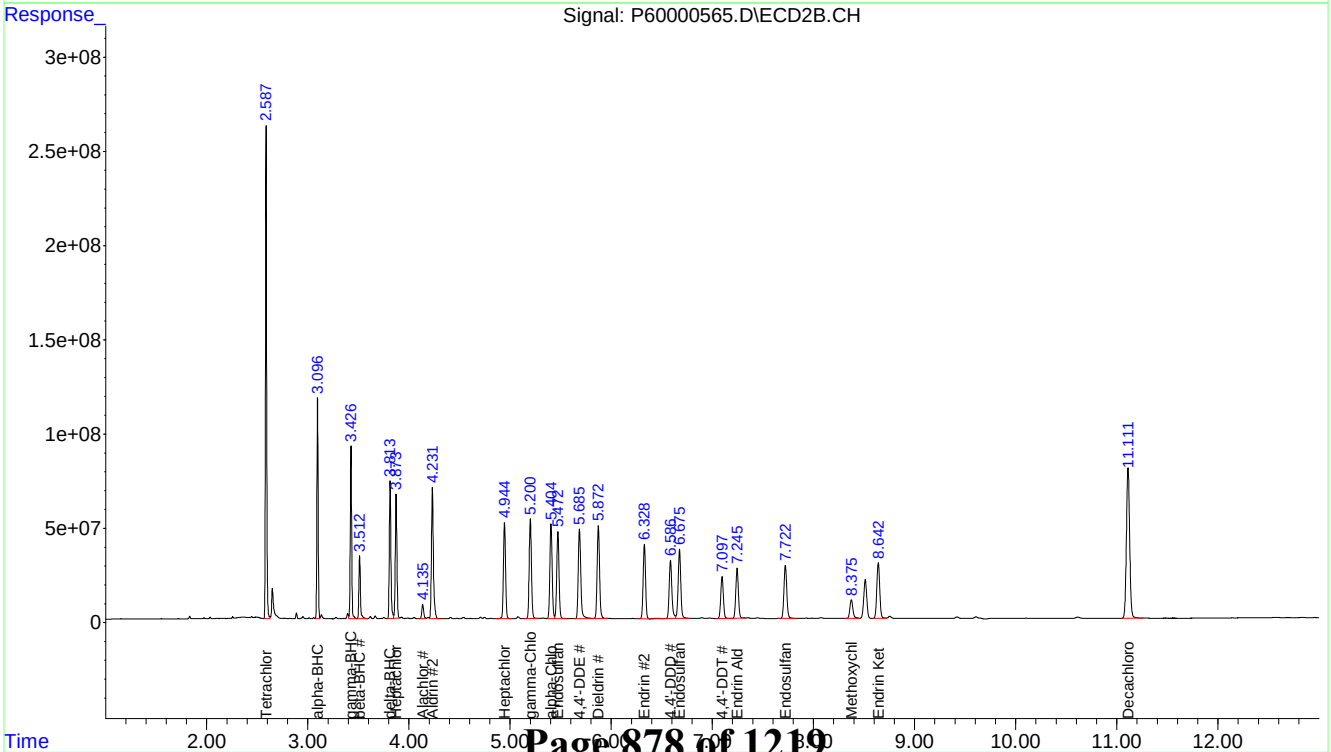
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000565.D
Acq On : 13 Feb 2020 6:40 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : SEQ-CCV5
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 2 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 06:04:28 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0A2002
Instrument: GCECD6
Calibration: YA00016

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	Y0A2002-PEM1	GC601446.D	01/17/20 07:49
Cal Standard	Y0A2002-CAL1	GC601467.D	01/17/20 14:06
Cal Standard	Y0A2002-CAL2	GC601468.D	01/17/20 14:22
Cal Standard	Y0A2002-CAL3	GC601469.D	01/17/20 14:39
Cal Standard	Y0A2002-CAL4	GC601470.D	01/17/20 14:56
Cal Standard	Y0A2002-CAL5	GC601471.D	01/17/20 15:13
Cal Standard	Y0A2002-CAL6	GC601472.D	01/17/20 15:29
Secondary Cal Check	Y0A2002-SCV1	GC601473.D	01/17/20 15:46

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0A2045	Instrument:	GC Dual E
		Calibration:	YB00024

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	Y0A2045-PEM1	P5062448.D	01/20/20 14:07
Cal Standard	Y0A2045-CAL1	P5062450.D	01/20/20 14:43
Cal Standard	Y0A2045-CAL2	P5062451.D	01/20/20 15:01
Cal Standard	Y0A2045-CAL3	P5062452.D	01/20/20 15:19
Cal Standard	Y0A2045-CAL4	P5062453.D	01/20/20 15:37
Cal Standard	Y0A2045-CAL5	P5062454.D	01/20/20 15:55
Cal Standard	Y0A2045-CAL6	P5062455.D	01/20/20 16:13
Secondary Cal Check	Y0A2045-SCV1	P5062456.D	01/20/20 16:31

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B1124
Instrument: GC Dual E
Calibration: YB00024

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	Y0B1124-PEM1	P5062531.D	02/10/20 07:21
Calibration Check	Y0B1124-CCV1	P5062532.D	02/10/20 07:39
Calibration Check	Y0B1124-CCV2	P5062533.D	02/10/20 07:57
Calibration Check	Y0B1124-CCV3	P5062534.D	02/10/20 08:14
Blank	BB00283-BLK1	P5062535.D	02/10/20 08:32
LCS	BB00283-BS1	P5062536.D	02/10/20 08:50
Calibration Check	Y0B1124-CCV4	P5062559.D	02/10/20 16:55

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B1201
Instrument: GCECD6
Calibration: YA00016

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	Y0B1201-PEM1	P60000429.D	02/11/20 08:57
Calibration Check	Y0B1201-CCV2	P60000431.D	02/11/20 09:30
Calibration Check	Y0B1201-CCV1	P60000432.D	02/11/20 09:47
Calibration Check	Y0B1201-CCV3	P60000433.D	02/11/20 10:04
SB-1 (0-2)	20B0093-01	P60000443.D	02/11/20 12:52
SB-1 (11-13)	20B0093-02	P60000444.D	02/11/20 13:09
SB-3 (0-2)	20B0093-03	P60000445.D	02/11/20 13:26
SB-3 (13-15)	20B0093-05	P60000446.D	02/11/20 13:43
SB-4 (0-2)	20B0093-06	P60000447.D	02/11/20 13:59
SB-4 (13-15)	20B0093-07	P60000448.D	02/11/20 14:16
Blank	BB00362-BLK1	P60000451.D	02/11/20 15:07
LCS	BB00362-BS1	P60000452.D	02/11/20 15:23
Calibration Check	Y0B1201-CCV4	P60000455.D	02/11/20 16:17
SB-4 (0-2)	BB00362-MS1	P60000463.D	02/11/20 18:31
SB-4 (0-2)	BB00362-MSD1	P60000464.D	02/11/20 18:48
Calibration Check	Y0B1201-CCV5	P60000477.D	02/12/20 07:11

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B1401
Instrument: GCECD6
Calibration: YA00016

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Performance Mix	Y0B1401-PEM1	P60000523.D	02/13/20 06:29
Calibration Check	Y0B1401-CCV2	P60000525.D	02/13/20 07:03
Calibration Check	Y0B1401-CCV3	P60000526.D	02/13/20 07:20
Calibration Check	Y0B1401-CCV1	P60000527.D	02/13/20 07:36
Calibration Check	Y0B1401-CCV4	P60000543.D	02/13/20 12:19
SB-1 (0-2)	BB00283-MS1	P60000563.D	02/13/20 18:06
SB-1 (0-2)	BB00283-MSD1	P60000564.D	02/13/20 18:23
Calibration Check	Y0B1401-CCV5	P60000565.D	02/13/20 18:40

METHOD BLANK RAW DATA

SDG: 20B0093
CLASS: PEST
METHOD: EPA 8081B

FORM I

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00283-BLK1	File ID:	P5062535.D
Prepared:	02/07/20 07:48	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/10/20 08:32	Instrument:	GC Dual E		
Batch:	BB00283	Sequence:	Y0B1124	Calibration:	YB00024

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
72-54-8	4,4'-DDD	1.64	U
72-54-8	4,4'-DDD [2C]	1.64	U
72-55-9	4,4'-DDE	1.64	U
72-55-9	4,4'-DDE [2C]	1.64	U
50-29-3	4,4'-DDT	1.64	U
50-29-3	4,4'-DDT [2C]	1.64	U
309-00-2	Aldrin	1.64	U
309-00-2	Aldrin [2C]	1.64	U
319-84-6	alpha-BHC	1.64	U
319-84-6	alpha-BHC [2C]	1.64	U
5103-71-9	alpha-Chlordane	1.64	U
5103-71-9	alpha-Chlordane [2C]	1.64	U
319-85-7	beta-BHC	1.64	U
319-85-7	beta-BHC [2C]	1.64	U
57-74-9	Chlordane, total	32.9	U
57-74-9	Chlordane, total [2C]	32.9	U
319-86-8	delta-BHC	1.64	U
319-86-8	delta-BHC [2C]	1.64	U
60-57-1	Dieldrin	1.64	U
60-57-1	Dieldrin [2C]	1.64	U
959-98-8	Endosulfan I	1.64	U
959-98-8	Endosulfan I [2C]	1.64	U
33213-65-9	Endosulfan II	1.64	U
33213-65-9	Endosulfan II [2C]	1.64	U
1031-07-8	Endosulfan sulfate	1.64	U
1031-07-8	Endosulfan sulfate [2C]	1.64	U
72-20-8	Endrin	1.64	U
72-20-8	Endrin [2C]	1.64	U
7421-93-4	Endrin aldehyde	1.64	U
7421-93-4	Endrin aldehyde [2C]	1.64	U

FORM I

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00283-BLK1	File ID:	P5062535.D
Prepared:	02/07/20 07:48	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/10/20 08:32	Instrument:	GC Dual E		
Batch:	BB00283	Sequence:	Y0B1124	Calibration:	YB00024

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
53494-70-5	Endrin ketone	1.64	U
53494-70-5	Endrin ketone [2C]	1.64	U
58-89-9	gamma-BHC (Lindane)	1.64	U
58-89-9	gamma-BHC (Lindane) [2C]	1.64	U
5566-34-7	gamma-Chlordane	1.64	U
5566-34-7	gamma-Chlordane [2C]	1.64	U
76-44-8	Heptachlor	1.64	U
76-44-8	Heptachlor [2C]	1.64	U
1024-57-3	Heptachlor epoxide	1.64	U
1024-57-3	Heptachlor epoxide [2C]	1.64	U
72-43-5	Methoxychlor	8.22	U
72-43-5	Methoxychlor [2C]	1.64	U
8001-35-2	Toxaphene	83.2	U
8001-35-2	Toxaphene [2C]	164	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	66.4	84.5	127	30 - 150	
Decachlorobiphenyl [2C]	66.4	78.4	118	30 - 150	
Tetrachloro-m-xylene	66.4	71.9	108	30 - 150	
Tetrachloro-m-xylene [2C]	66.4	68.5	103	30 - 150	

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062535.D\ECD1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062535.D\ECD2A.CH
Acq On : 10 Feb 2020 8:32 am Operator: CM
Sample : BB00283-BLK1 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 5.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 10:25 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.93	128702	339240	43.290	41.253
	Spiked Amount 200.000	Range 30 - 150		Recovery =		21.65%#	20.63%#
23) SA	Decachlorobiphen	12.29	10.62	103694	282582	50.848	47.189
	Spiked Amount 200.000	Range 30 - 150		Recovery =		25.42%#	23.59%#
	Target Compounds						
2) M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3) M	gamma-BHC (Linda	0.00	0.00	0	0	N.D.	N.D.
4) M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5) M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
6) M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
7) M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8) M	Alachlor	0.00	0.00	0	0	N.D.	N.D.
9) M	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
10) M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12) M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
13) M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
14) M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15) M	Endrin	0.00	0.00	0	0	N.D.	N.D.
16) M	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
17) M	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
18) M	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
19) M	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
20) M	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21) M	Endosulfan sulfa	0.00	0.00	0	0	N.D.	N.D.
22) M	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

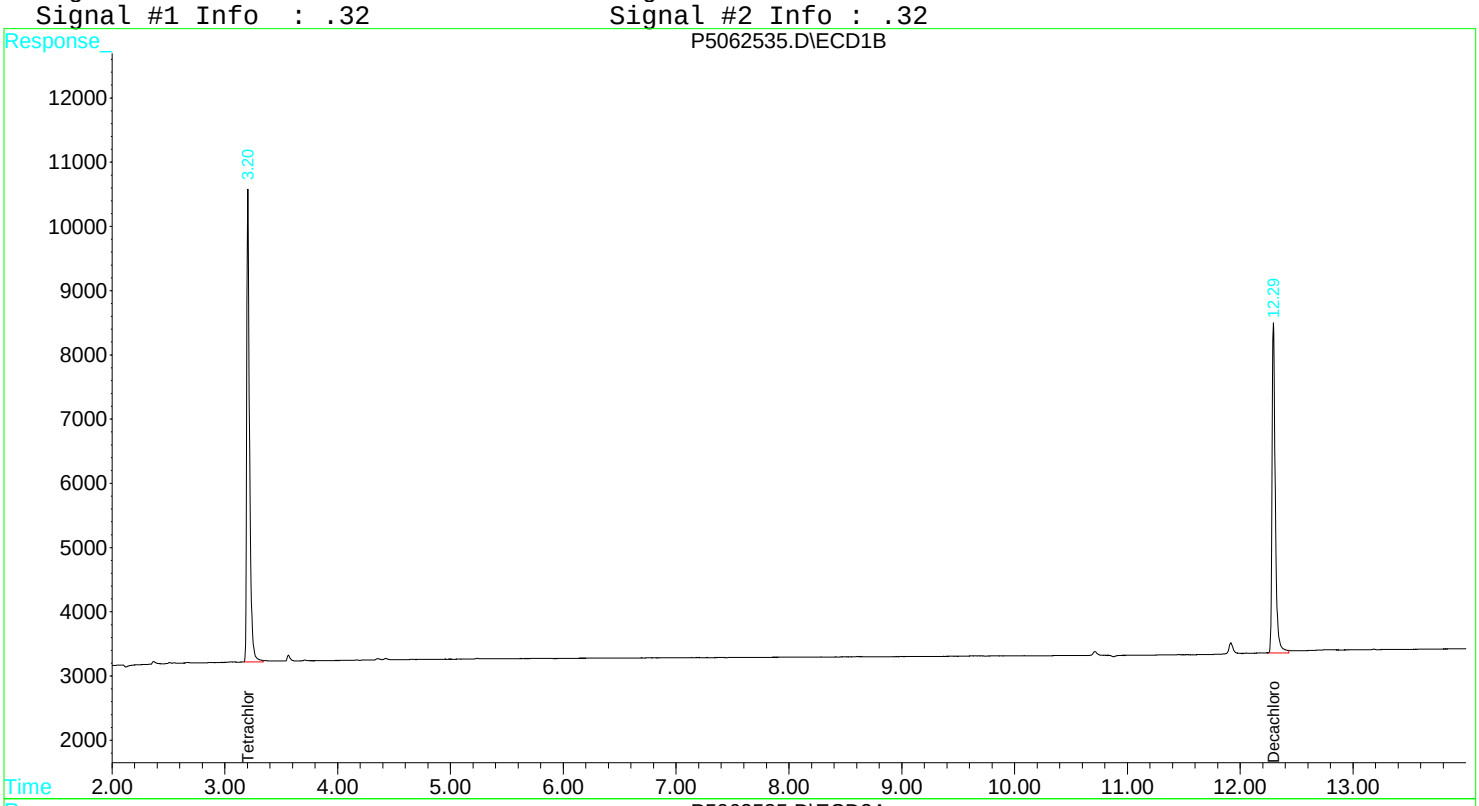
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

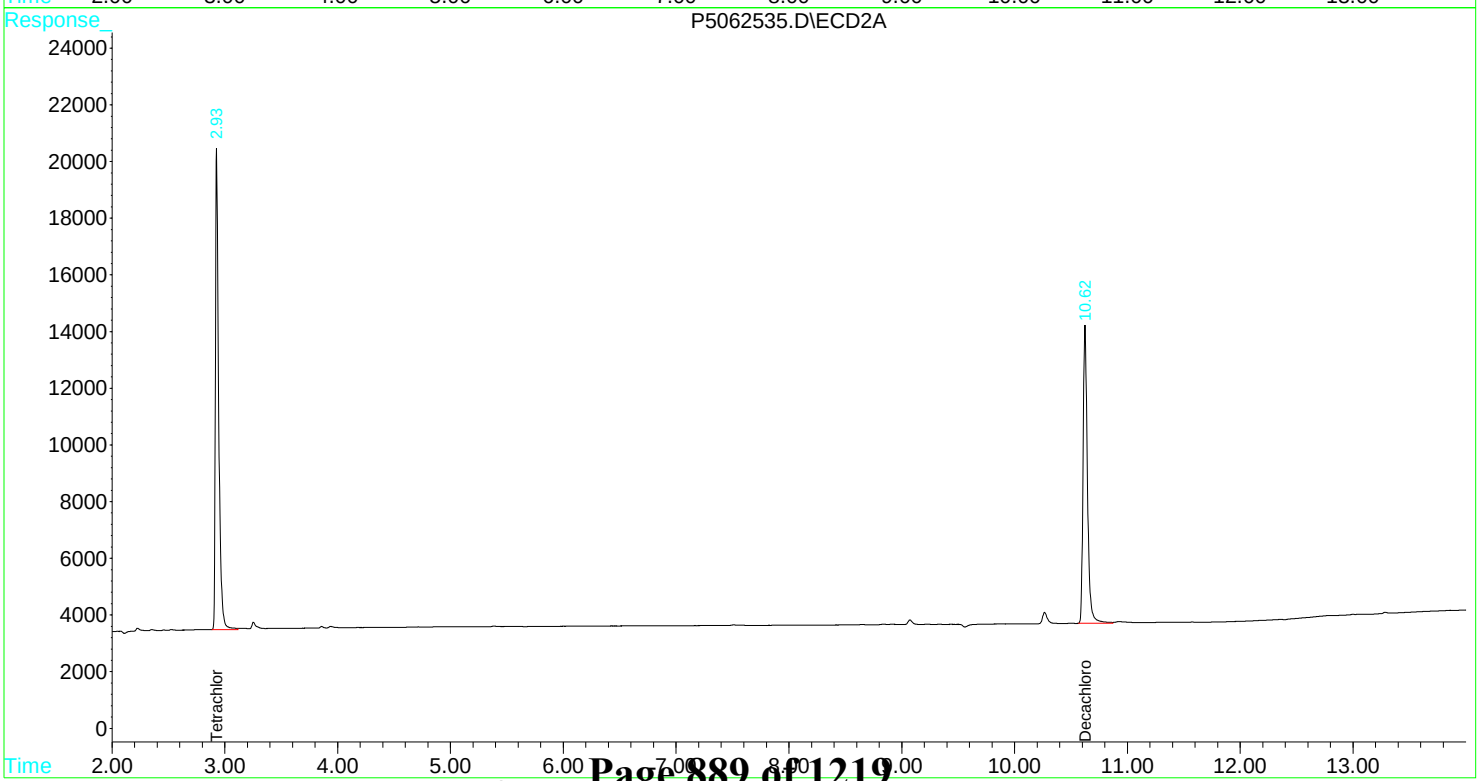
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062535.D\ECD1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062535.D\ECD2A.CH
Acq On : 10 Feb 2020 8:32 am Operator: CM
Sample : BB00283-BLK1 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 5.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 10:25 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





METHOD BLANK RAW DATA

SDG: 20B0093
CLASS: PEST
METHOD: EPA 8081B

FORM I

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00362-BLK1	File ID:	P60000451.D
Prepared:	02/10/20 07:17	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/11/20 15:07	Instrument:	GCECD6		
Batch:	BB00362	Sequence:	Y0B1201	Calibration:	YA00016

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
72-54-8	4,4'-DDD	1.64	U
72-54-8	4,4'-DDD [2C]	1.64	U
72-55-9	4,4'-DDE	1.64	U
72-55-9	4,4'-DDE [2C]	1.64	U
50-29-3	4,4'-DDT	1.64	U
50-29-3	4,4'-DDT [2C]	1.64	U
309-00-2	Aldrin	1.64	U
309-00-2	Aldrin [2C]	1.64	U
319-84-6	alpha-BHC	1.64	U
319-84-6	alpha-BHC [2C]	1.64	U
5103-71-9	alpha-Chlordane	1.64	U
5103-71-9	alpha-Chlordane [2C]	1.64	U
319-85-7	beta-BHC	1.64	U
319-85-7	beta-BHC [2C]	1.64	U
57-74-9	Chlordane, total	32.9	U
57-74-9	Chlordane, total [2C]	32.9	U
319-86-8	delta-BHC	1.64	U
319-86-8	delta-BHC [2C]	1.64	U
60-57-1	Dieldrin	1.64	U
60-57-1	Dieldrin [2C]	1.64	U
959-98-8	Endosulfan I	1.64	U
959-98-8	Endosulfan I [2C]	1.64	U
33213-65-9	Endosulfan II	1.64	U
33213-65-9	Endosulfan II [2C]	1.64	U
1031-07-8	Endosulfan sulfate	1.64	U
1031-07-8	Endosulfan sulfate [2C]	1.64	U
72-20-8	Endrin	1.64	U
72-20-8	Endrin [2C]	1.64	U
7421-93-4	Endrin aldehyde	1.64	U
7421-93-4	Endrin aldehyde [2C]	1.64	U

FORM I

METHOD BLANK DATA SHEET

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00362-BLK1	File ID:	P60000451.D
Prepared:	02/10/20 07:17	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/11/20 15:07	Instrument:	GCECD6		
Batch:	BB00362	Sequence:	Y0B1201	Calibration:	YA00016

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
53494-70-5	Endrin ketone	1.64	U
53494-70-5	Endrin ketone [2C]	1.64	U
58-89-9	gamma-BHC (Lindane)	1.64	U
58-89-9	gamma-BHC (Lindane) [2C]	1.64	U
5566-34-7	gamma-Chlordane	1.64	U
5566-34-7	gamma-Chlordane [2C]	1.64	U
76-44-8	Heptachlor	1.64	U
76-44-8	Heptachlor [2C]	1.64	U
1024-57-3	Heptachlor epoxide	1.64	U
1024-57-3	Heptachlor epoxide [2C]	1.64	U
72-43-5	Methoxychlor	8.22	U
72-43-5	Methoxychlor [2C]	1.64	U
8001-35-2	Toxaphene	83.2	U
8001-35-2	Toxaphene [2C]	164	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	66.4	53.9	81.1	30 - 150	
Decachlorobiphenyl [2C]	66.4	60.6	91.2	30 - 150	
Tetrachloro-m-xylene	66.4	54.1	81.4	30 - 150	
Tetrachloro-m-xylene [2C]	66.4	65.1	98.0	30 - 150	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000451.D
Acq On : 11 Feb 2020 3:07 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00362-BLK1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 22 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 15:32:51 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

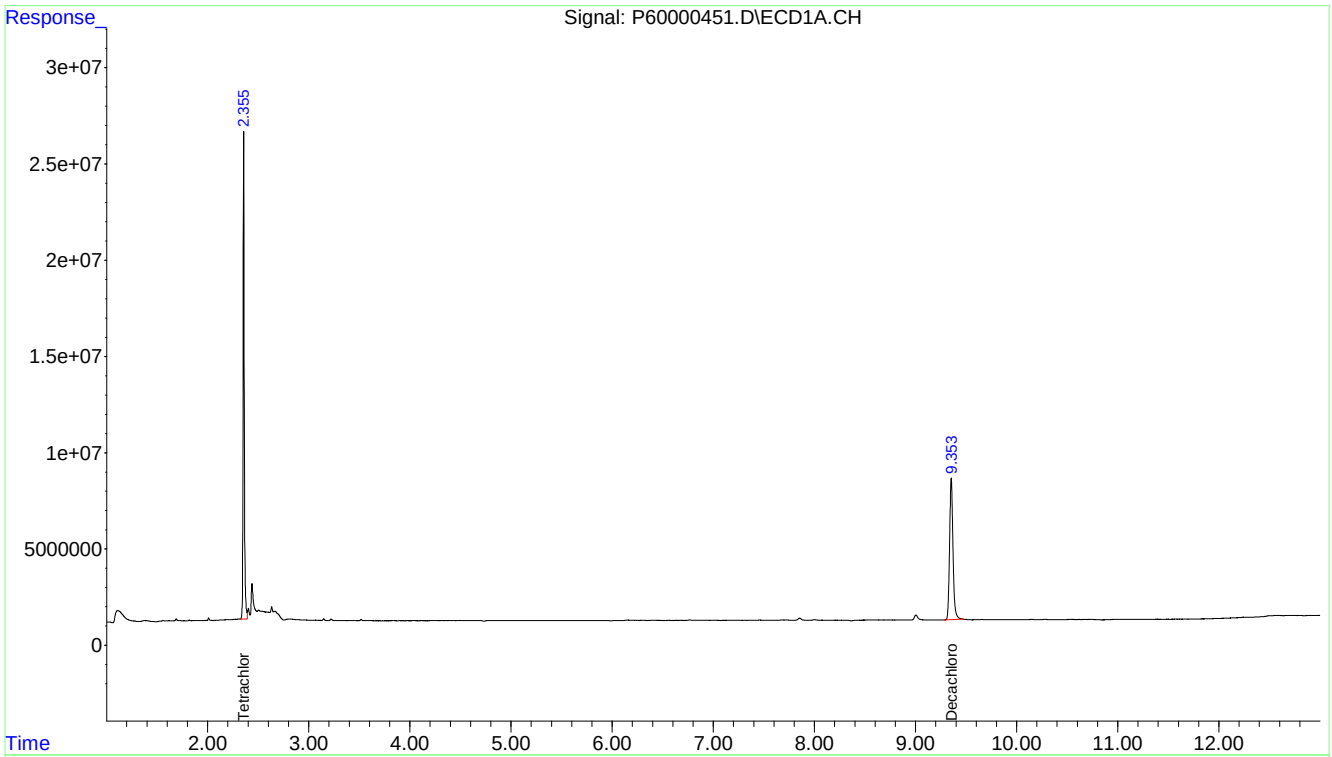
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Tetrachloro-m-Xylene	2.355	205686773	32.579	ng/mLm
2)	alpha-BHC	0.000	0	N.D.	ng/mL
3)	gamma-BHC (Lindane)	0.000	0	N.D.	ng/mL
4)	beta-BHC	0.000	0	N.D.	ng/mL
5)	delta-BHC	0.000	0	N.D.	ng/mL
6)	Heptachlor	0.000	0	N.D.	ng/mL
7)	Aldrin	0.000	0	N.D.	ng/mL
8)	Alachlor	0.000	0	N.D.	ng/mL
9)	Heptachlor Epoxide	0.000	0	N.D.	ng/mL
10)	gamma-Chlordane	0.000	0	N.D.	ng/mL
11)	alpha-Chlordane	0.000	0	N.D.	ng/mL
12)	Endosulfan I	0.000	0	N.D.	ng/mL
13)	4,4'-DDE	0.000	0	N.D.	ng/mL
14)	Dieldrin	0.000	0	N.D.	ng/mL
15)	Endrin	0.000	0	N.D.	ng/mL
16)	4,4'-DDD	0.000	0	N.D.	ng/mL
17)	Endosulfan II	0.000	0	N.D.	ng/mL
18)	4,4'-DDT	0.000	0	N.D.	ng/mL
19)	Endrin Aldehyde	0.000	0	N.D.	ng/mL
20)	Methoxychlor	0.000	0	N.D.	ng/mL
21)	Endosulfan Sulfate	0.000	0	N.D.	ng/mL
22)	Endrin Ketone	0.000	0	N.D.	ng/mL
23)	Decachlorobiphenyl	9.353	171742965	32.454	ng/mL
25)	Tetrachloro-m-xylene #2	2.588	479301117	39.214	ng/mL
26)	alpha-BHC #2	0.000	0	N.D.	ng/mL
27)	gamma-BHC (lLindane) #2	0.000	0	N.D.	ng/mL
28)	beta-BHC #2	0.000	0	N.D.	ng/mL
29)	delta-BHC #2	0.000	0	N.D.	ng/mL
30)	Heptachlor #2	0.000	0	N.D.	ng/mL
31)	Aldrin #2	0.000	0	N.D.	ng/mL
32)	Alachlor #2	0.000	0	N.D.	ng/mL
33)	Heptachlor Epoxide #2	0.000	0	N.D.	ng/mL
34)	gamma-Chlordane #2	0.000	0	N.D.	ng/mL
35)	alpha-Chlordane #2	0.000	0	N.D.	ng/mL
36)	Endosulfan I #2	0.000	0	N.D.	ng/mL
37)	4,4'-DDE #2	0.000	0	N.D.	ng/mL
38)	Dieldrin #2	0.000	0	N.D.	ng/mL
39)	Endrin #2	0.000	0	N.D.	ng/mL
40)	4.4'-DDD #2	0.000	0	N.D.	ng/mL
41)	Endosulfan II #2	0.000	0	N.D.	ng/mL
42)	4,4'-DDT #2	0.000	0	N.D.	ng/mL
43)	Endrin Aldehyde #2	0.000	0	N.D.	ng/mL
44)	Methoxychlor #2	0.000	0	N.D.	ng/mL
45)	Endosulfan Sulfate #2	0.000	0	N.D.	ng/mL
46)	Endrin Ketone #2	0.000	0	N.D.	ng/mL
47)	Decachlorobiphenyl #2	11.110	386485416	36.490	ng/mL

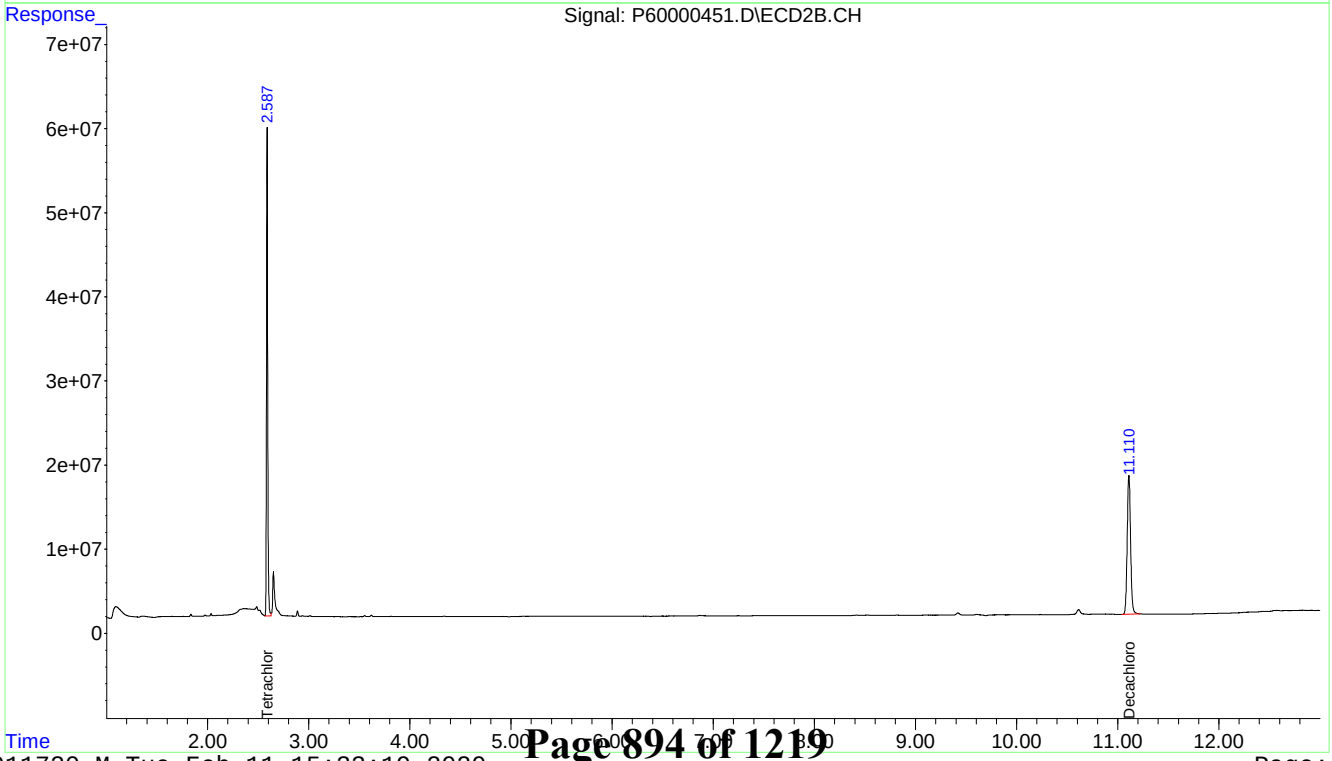
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000451.D
Acq On : 11 Feb 2020 3:07 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00362-BLK1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 22 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 15:32:51 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





LCS RAW DATA

SDG: 20B0093
CLASS: PEST
METHOD: EPA 8081B

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062536.D\ECD1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062536.D\ECD2A.CH
Acq On : 10 Feb 2020 8:50 am Operator: CM
Sample : BB00283-BS1 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 5.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 11:12 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Initial Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32

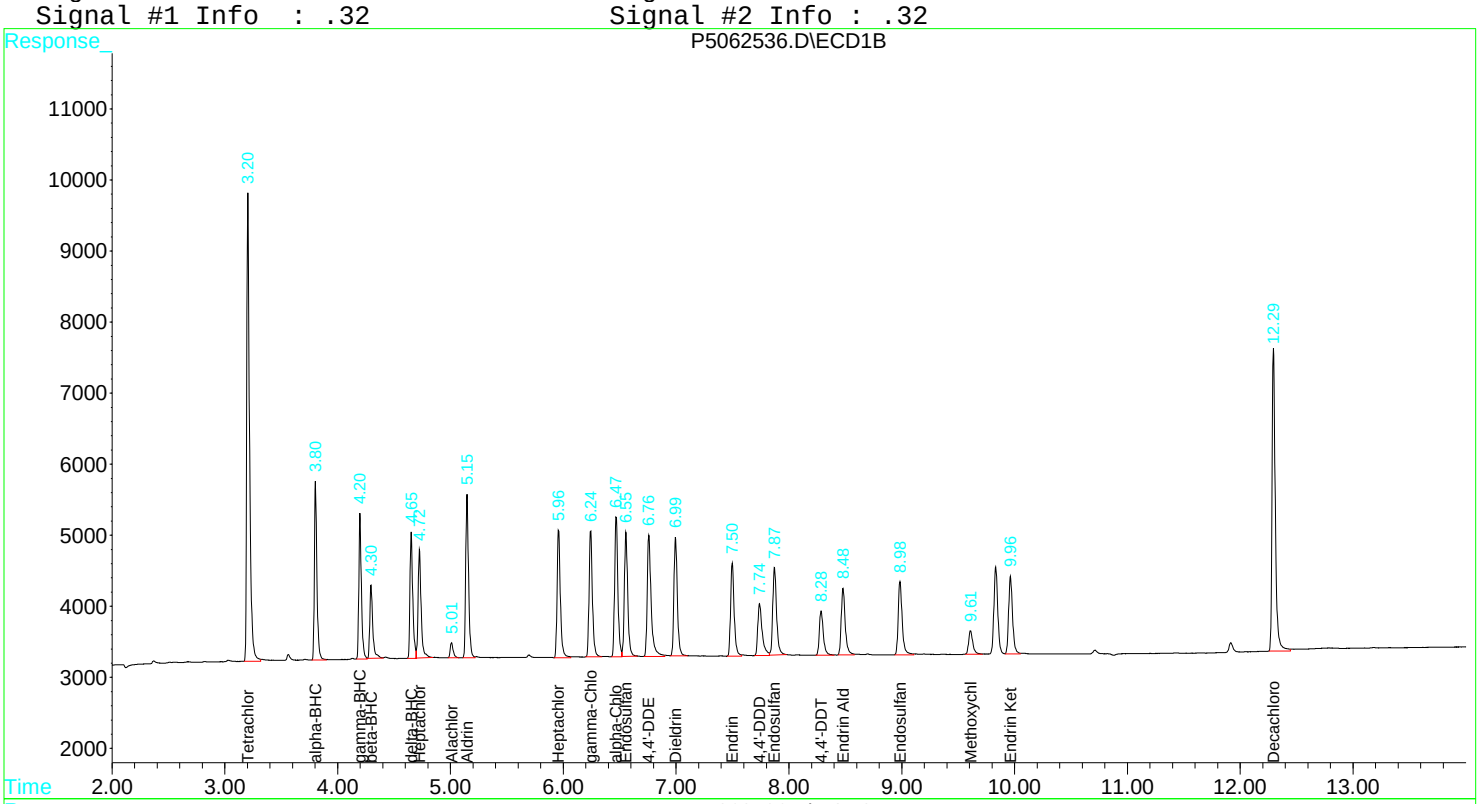
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) SA	Tetrachloro-m-xy	3.20	2.93	115332	304062	38.793	36.975
	Spiked Amount 200.000	Range 30 - 150		Recovery =		19.40%#	18.49%#
23) SA	Decachlorobiphen	12.29	10.62	86350	234926	42.343	39.231
	Spiked Amount 200.000	Range 30 - 150		Recovery =		21.17%#	19.62%#
	Target Compounds						
2) M	alpha-BHC	3.80	3.40	39032	101952	18.873	19.028
3) M	gamma-BHC (Linda	4.20	3.69	33020	88892	18.480	19.591
4) M	beta-BHC	4.30	3.78	18852	47762	20.328	18.928
5) M	delta-BHC	4.65	3.95	30920	85312	18.851	19.342
6) M	Heptachlor	4.72	4.18	28466	86904	20.826	18.266
7) M	Aldrin	5.15	4.51	40860	102210	18.974	18.931
8) M	Alachlor	5.01	4.68	3938	21594	17.078	23.067 #
9) M	Heptachlor Epoxi	5.96	5.24	36044	95856	19.790	18.656
10) M	gamma-Chlordane	6.24	5.40	35814	96550	18.788	17.879
11) M	alpha-Chlordane	6.47	5.58	39488	102558	19.479	21.297
12) M	Endosulfan I	6.55	5.76	36268	115614	19.922	19.245
13) M	4,4'-DDE	6.76	5.72	41008	82944	19.872	17.224
14) M	Dieldrin	6.99	6.10	34730	94528	19.168	19.262
15) M	Endrin	7.50	6.43	29010	81618	20.101	19.714
16) M	4,4'-DDD	7.74	6.59	19944	67436	18.533	19.410
17) M	Endosulfan II	7.87	6.77	29086	76682	18.760	19.297
18) M	4,4'-DDT	8.28	7.03	15316	57524	19.720	20.445
19) M	Endrin Aldehyde	8.48	7.44	23206	67200	17.382	16.975
20) M	Methoxychlor	9.61	7.90	8370	31744	19.752	22.564
21) M	Endosulfan sulfa	8.98	8.17	25462	78424	18.077	17.206
22) M	Endrin Ketone	9.96	8.63	26374	85824	19.381	18.827

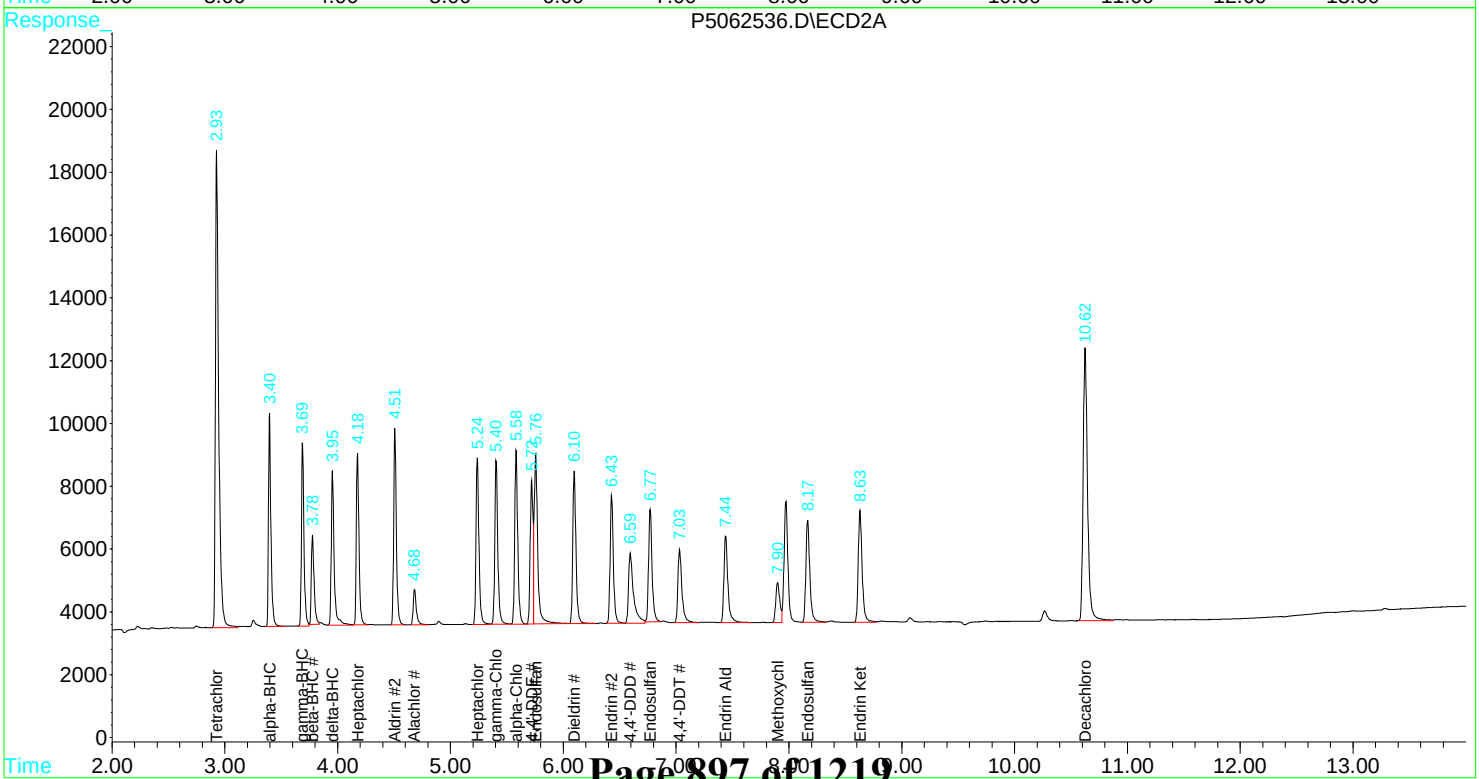
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P5062536.D P5012020.M Mon Feb 10 11:12:59 2020 Page 1

Signal #1 : C:\HPCHEM\1\DATA\021020A\P5062536.D\ECD1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\021020A\P5062536.D\ECD2A.CH
Acq On : 10 Feb 2020 8:50 am Operator: CM
Sample : BB00283-BS1 Inst : GC DUAL E
Misc : QBPEST5-021020A Multiplr: 5.00
IntFile Signal #1: RTEINT.P IntFile Signal #2: RTEINT2.P
Quant Time: Feb 10 11:12 2020 Quant Results File: P5012020.RES

Quant Method : C:\HPCHEM\1\METHODS\P5012020.M (RTE Integrator)
Title : 12/09/19- Stx-CLP & CLP2 - single tower,dual det
Last Update : Wed Jan 22 10:49:30 2020
Response via : Multiple Level Calibration
DataAcq Meth : PESTN1LT.M

Volume Inj. : 1 uL
Signal #1 Phase : Stx-CLPesticides Signal #2 Phase: Stx-CLPesticides2 Serial # 1124629
Signal #1 Info : .32 Signal #2 Info : .32





LCS RAW DATA

SDG: 20B0093
CLASS: PEST
METHOD: EPA 8081B

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000452.D
Acq On : 11 Feb 2020 3:23 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00362-BS1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 23 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 15:40:19 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

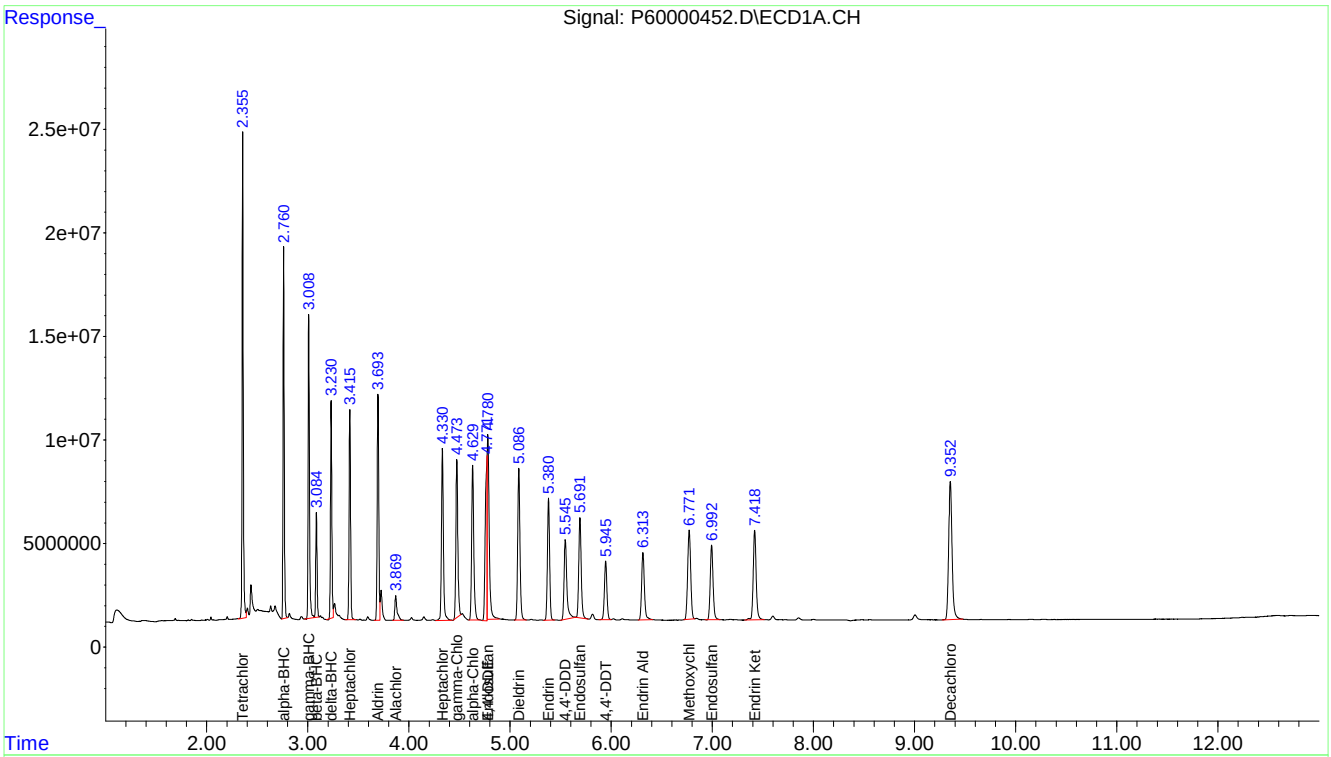
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	189050660	29.944 ng/mLm
2)	alpha-BHC	2.761	147516114	15.316 ng/mL
3)	gamma-BHC (Lindane)	3.009	134512906	16.052 ng/mL
4)	beta-BHC	3.085	45856250	14.519 ng/mL
5)	delta-BHC	3.231	96333058	13.520 ng/mL
6)	Heptachlor	3.415	102796522	14.891 ng/mL
7)	Aldrin	3.694	118586873	16.184 ng/mL
8)	Alachlor	3.870	18416157	14.013 ng/mL
9)	Heptachlor Epoxide	4.330	110327970	14.792 ng/mL
10)	gamma-Chlordane	4.473	103365319	13.666 ng/mL
11)	alpha-Chlordane	4.630	110413168	14.921 ng/mL
12)	Endosulfan I	4.780	122247774	13.830 ng/mLm
13)	4,4'-DDE	4.771	89876115	15.417 ng/mLm
14)	Dieldrin	5.086	114091216	16.239 ng/mL
15)	Endrin	5.380	88246048	15.150 ng/mL
16)	4,4'-DDD	5.546	72353928	13.060 ng/mL
17)	Endosulfan II	5.691	81146432	13.210 ng/mL
18)	4,4'-DDT	5.945	48010761	13.281 ng/mL
19)	Endrin Aldehyde	6.314	62024500	11.877 ng/mL
20)	Methoxychlor	6.771	89205125	15.125 ng/mL
21)	Endosulfan Sulfate	6.993	69974180	13.009 ng/mL
22)	Endrin Ketone	7.419	87772876	15.666 ng/mL
23)	Decachlorobiphenyl	9.353	157877257	29.834 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	433996422	35.508 ng/mL
26)	alpha-BHC #2	3.096	328750835	17.851 ng/mL
27)	gamma-BHC (lLindane) #2	3.427	292612903	17.786 ng/mL
28)	beta-BHC #2	3.513	117751072	17.058 ng/mL
29)	delta-BHC #2	3.814	238601455	15.601 ng/mL
30)	Heptachlor #2	3.873	241499955	17.650 ng/mL
31)	Aldrin #2	4.232	324066372	18.467 ng/mL
32)	Alachlor #2	4.136	32691296	15.295 ng/mL
33)	Heptachlor Epoxide #2	4.944	254672908	17.419 ng/mL
34)	gamma-Chlordane #2	5.200	270418244	16.906 ng/mL
35)	alpha-Chlordane #2	5.404	262599732	16.748 ng/mL
36)	Endosulfan I #2	5.473	249966824	17.341 ng/mL
37)	4,4'-DDE #2	5.686	263692808	15.616 ng/mL
38)	Dieldrin #2	5.873	271349364	16.855 ng/mL
39)	Endrin #2	6.328	206837856	17.959 ng/mL
40)	4.4'-DDD #2	6.585	174713213	14.778 ng/mL
41)	Endosulfan II #2	6.675	215635477	15.663 ng/mL
42)	4,4'-DDT #2	7.095	112056200	13.337 ng/mL
43)	Endrin Aldehyde #2	7.245	138405464	13.221 ng/mL
44)	Methoxychlor #2	8.373	59541620	15.631 ng/mL
45)	Endosulfan Sulfate #2	7.722	158793266	14.167 ng/mL
46)	Endrin Ketone #2	8.641	193772024	17.231 ng/mL
47)	Decachlorobiphenyl #2	11.108	355099592	33.527 ng/mL

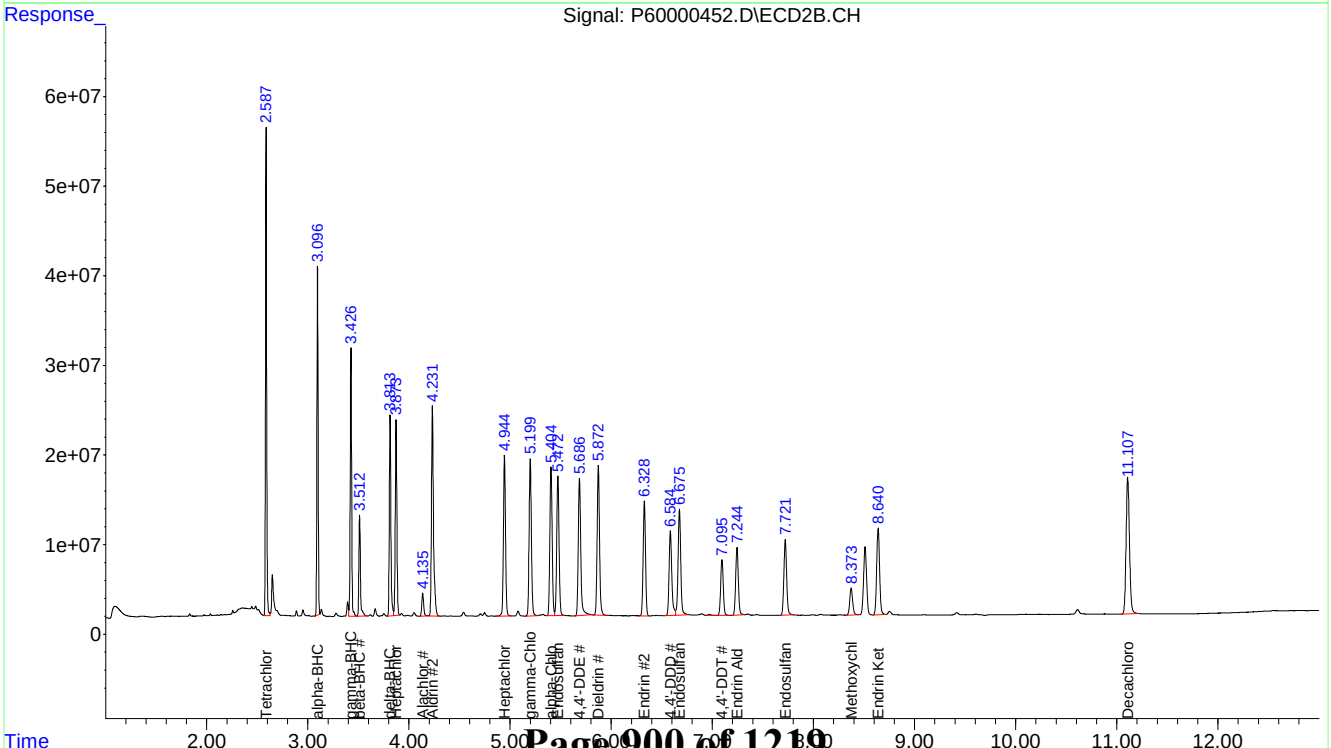
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000452.D
Acq On : 11 Feb 2020 3:23 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00362-BS1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 23 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 11 15:40:19 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





MATRIX SPIKE RAW DATA

SDG: 20B0093
CLASS: PEST
METHOD: EPA 8081B

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000563.D
Acq On : 13 Feb 2020 6:06 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00283-MS1
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 37 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 06:39:41 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

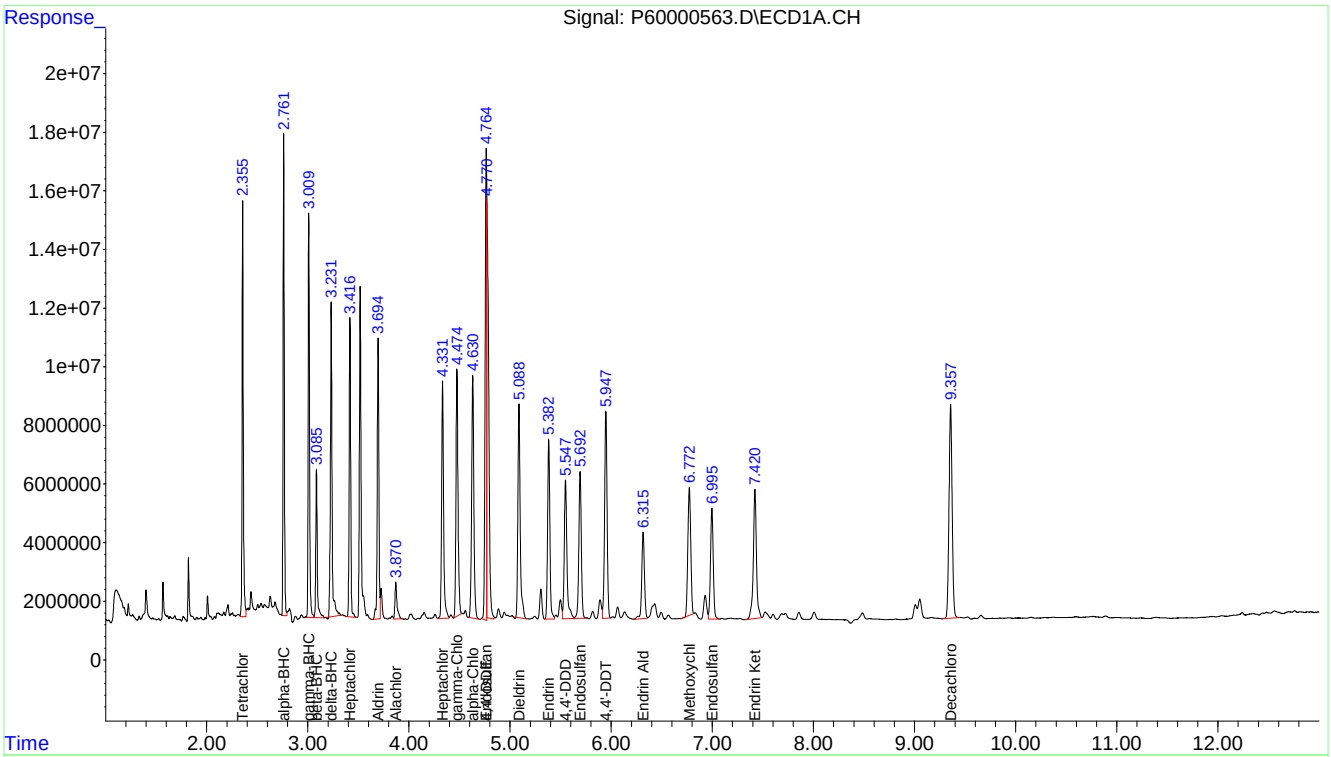
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	118688887	18.799 ng/mLm
2)	alpha-BHC	2.761	137801102	14.307 ng/mL
3)	gamma-BHC (Lindane)	3.009	127475236	15.212 ng/mL
4)	beta-BHC	3.086	52454321	16.608 ng/mL
5)	delta-BHC	3.232	121033818	16.987 ng/mL
6)	Heptachlor	3.416	105128498	15.229 ng/mL
7)	Aldrin	3.695	107356300	14.651 ng/mL
8)	Alachlor	3.870	18123326	13.790 ng/mL
9)	Heptachlor Epoxide	4.332	110107578	14.763 ng/mL
10)	gamma-Chlordane	4.475	117832578	15.578 ng/mL
11)	alpha-Chlordane	4.631	125371800	16.943 ng/mL
12)	Endosulfan I	4.770	174213329	19.708 ng/mLm
13)	4,4'-DDE	4.764	188078127	32.263 ng/mLm
14)	Dieldrin	5.088	115797970	16.482 ng/mL
15)	Endrin	5.382	95357219	16.371 ng/mL
16)	4,4'-DDD	5.548	86146597	15.550 ng/mL
17)	Endosulfan II	5.692	85426396	13.907 ng/mL
18)	4,4'-DDT	5.947	120189387	33.248 ng/mL
19)	Endrin Aldehyde	6.316	54514946	10.439 ng/mL
20)	Methoxychlor	6.773	87156253	14.778 ng/mL
21)	Endosulfan Sulfate	6.996	72034135	13.392 ng/mL
22)	Endrin Ketone	7.421	94724066	16.907 ng/mL
23)	Decachlorobiphenyl	9.357	157517776	29.766 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	249153438	20.385 ng/mL
26)	alpha-BHC #2	3.097	291950593	15.853 ng/mL
27)	gamma-BHC (lLindane) #2	3.428	270710354	16.455 ng/mL
28)	beta-BHC #2	3.514	108671547	15.743 ng/mL
29)	delta-BHC #2	3.814	233946047	15.297 ng/mL
30)	Heptachlor #2	3.874	242642272	17.733 ng/mL
31)	Aldrin #2	4.233	275782696	15.716 ng/mL
32)	Alachlor #2	4.136	36340825	17.002 ng/mL
33)	Heptachlor Epoxide #2	4.946	239782728	16.401 ng/mL
34)	gamma-Chlordane #2	5.201	309181365	19.330 ng/mL
35)	alpha-Chlordane #2	5.406	281795010	17.972 ng/mL
36)	Endosulfan I #2	5.475	230438351	15.986 ng/mL
37)	4,4'-DDE #2	5.688	585831120	34.692 ng/mL
38)	Dieldrin #2	5.874	253720920	15.760 ng/mL
39)	Endrin #2	6.329	208651052	18.117 ng/mL
40)	4.4'-DDD #2	6.588	179413991	15.175 ng/mL
41)	Endosulfan II #2	6.677	186414679	13.541 ng/mL
42)	4,4'-DDT #2	7.098	298938848	36.368 ng/mL
43)	Endrin Aldehyde #2	7.247	131165622	12.530 ng/mL
44)	Methoxychlor #2	8.377	76958896	20.204 ng/mL
45)	Endosulfan Sulfate #2	7.725	177595881	15.845 ng/mL
46)	Endrin Ketone #2	8.643	182288664	16.209 ng/mL
47)	Decachlorobiphenyl #2	11.111	351866870	33.222 ng/mL

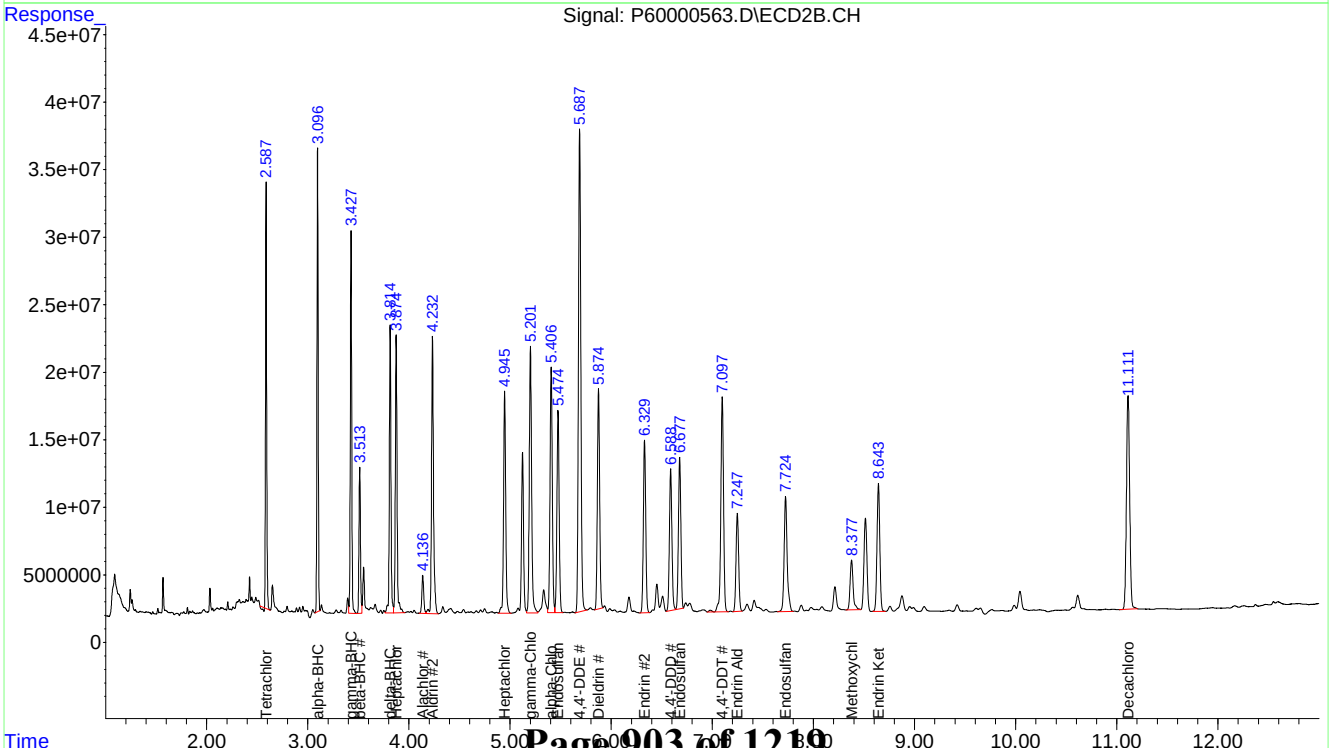
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000563.D
Acq On : 13 Feb 2020 6:06 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00283-MS1
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 37 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 06:39:41 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000564.D
Acq On : 13 Feb 2020 6:23 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00283-MSD1
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 38 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 06:41:45 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

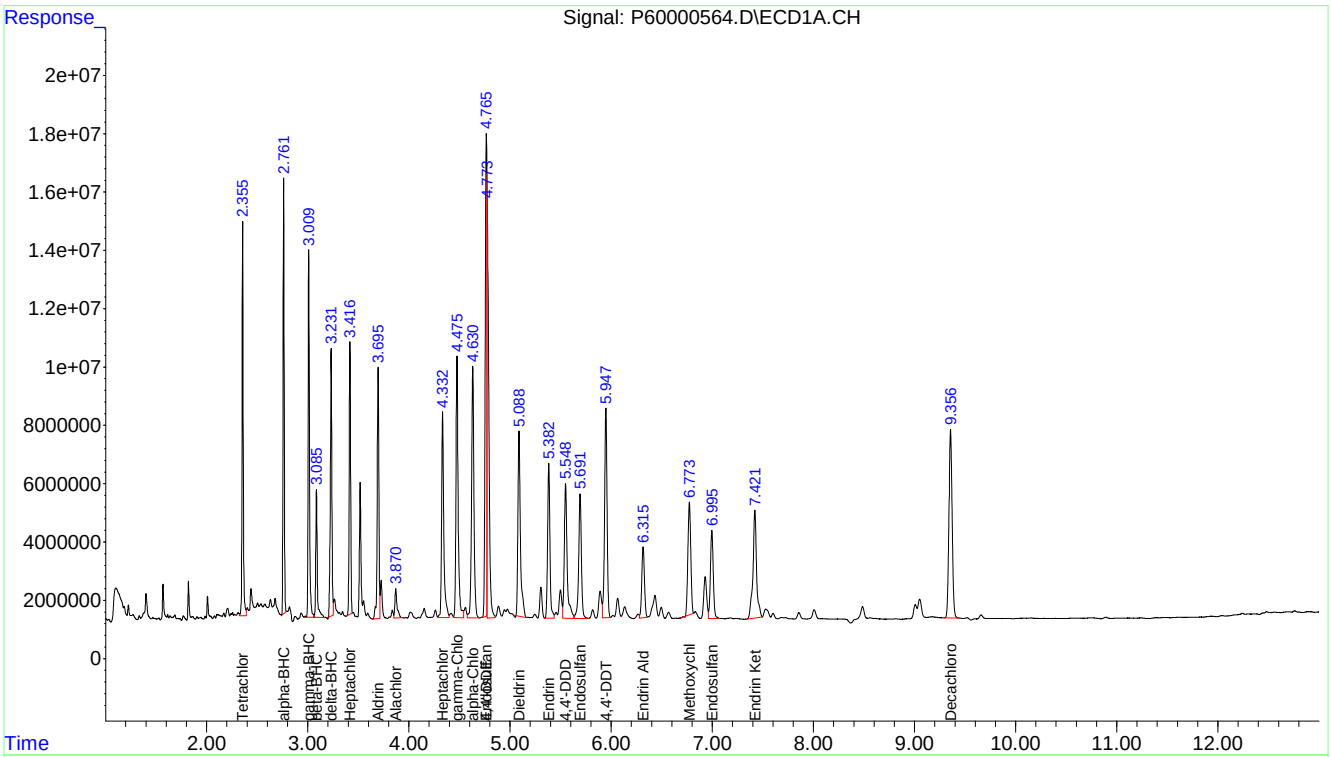
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	108651101	17.209 ng/mLm
2)	alpha-BHC	2.761	119602506	12.418 ng/mL
3)	gamma-BHC (Lindane)	3.009	114959550	13.718 ng/mL
4)	beta-BHC	3.086	45607274	14.440 ng/mL
5)	delta-BHC	3.231	95312344	13.377 ng/mL
6)	Heptachlor	3.416	91198864	13.211 ng/mL
7)	Aldrin	3.695	98530102	13.446 ng/mL
8)	Alachlor	3.870	15264262	11.614 ng/mL
9)	Heptachlor Epoxide	4.332	104852250	14.058 ng/mL
10)	gamma-Chlordane	4.475	134607704	17.796 ng/mL
11)	alpha-Chlordane	4.631	139151801	18.805 ng/mL
12)	Endosulfan I	4.773	159996479	18.100 ng/mLm
13)	4,4'-DDE	4.765	185931859	31.895 ng/mLm
14)	Dieldrin	5.088	108349565	15.422 ng/mL
15)	Endrin	5.383	84347728	14.481 ng/mL
16)	4,4'-DDD	5.549	89584518	16.170 ng/mL
17)	Endosulfan II	5.692	78923484	12.849 ng/mL
18)	4,4'-DDT	5.947	122364424	33.849 ng/mL
19)	Endrin Aldehyde	6.315	44552492	8.532 ng/mL
20)	Methoxychlor	6.773	76658586	12.998 ng/mL
21)	Endosulfan Sulfate	6.996	59158744	10.998 ng/mL
22)	Endrin Ketone	7.421	91533032	16.337 ng/mL
23)	Decachlorobiphenyl	9.356	141995680	26.833 ng/mL
25)	Tetrachloro-m-xylene #2	2.587	238805591	19.538 ng/mL
26)	alpha-BHC #2	3.096	265910598	14.439 ng/mL
27)	gamma-BHC (lLindane) #2	3.427	242573020	14.744 ng/mL
28)	beta-BHC #2	3.513	93811918	13.590 ng/mL
29)	delta-BHC #2	3.814	201550595	13.178 ng/mL
30)	Heptachlor #2	3.874	223861190	16.361 ng/mL
31)	Aldrin #2	4.232	260279564	14.832 ng/mL
32)	Alachlor #2	4.136	31364047	14.674 ng/mL
33)	Heptachlor Epoxide #2	4.946	225643299	15.434 ng/mL
34)	gamma-Chlordane #2	5.201	345872742	21.623 ng/mL
35)	alpha-Chlordane #2	5.406	294936766	18.810 ng/mL
36)	Endosulfan I #2	5.474	209993277	14.568 ng/mL
37)	4,4'-DDE #2	5.688	656593611	38.883 ng/mL
38)	Dieldrin #2	5.874	235559595	14.632 ng/mL
39)	Endrin #2	6.329	185160748	16.077 ng/mL
40)	4.4'-DDD #2	6.588	177753369	15.035 ng/mL
41)	Endosulfan II #2	6.677	161224005	11.711 ng/mL
42)	4,4'-DDT #2	7.098	315144528	38.415 ng/mL
43)	Endrin Aldehyde #2	7.247	125957272	12.032 ng/mL
44)	Methoxychlor #2	8.377	67434977	17.703 ng/mL
45)	Endosulfan Sulfate #2	7.724	164059852	14.637 ng/mL
46)	Endrin Ketone #2	8.642	155881940	13.861 ng/mL
47)	Decachlorobiphenyl #2	11.111	318611099	30.082 ng/mL

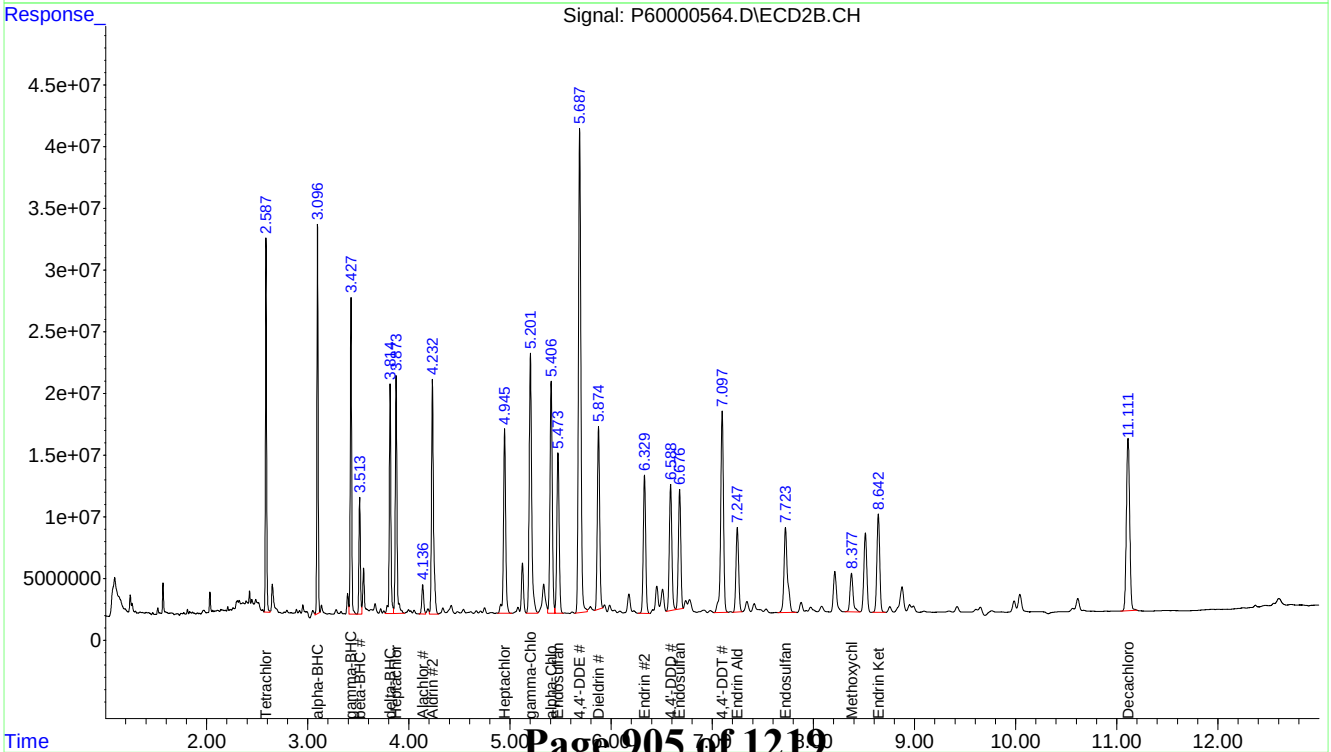
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021320A\
Data File : P60000564.D
Acq On : 13 Feb 2020 6:23 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00283-MSD1
Misc : QBPST6021320A
InstName : GCECD6
ALS Vial : 38 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 14 06:41:45 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





MATRIX SPIKE RAW DATA

SDG: 20B0093
CLASS: PEST
METHOD: EPA 8081B

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000463.D
Acq On : 11 Feb 2020 6:31 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00362-MS1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 32 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 12 06:23:06 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

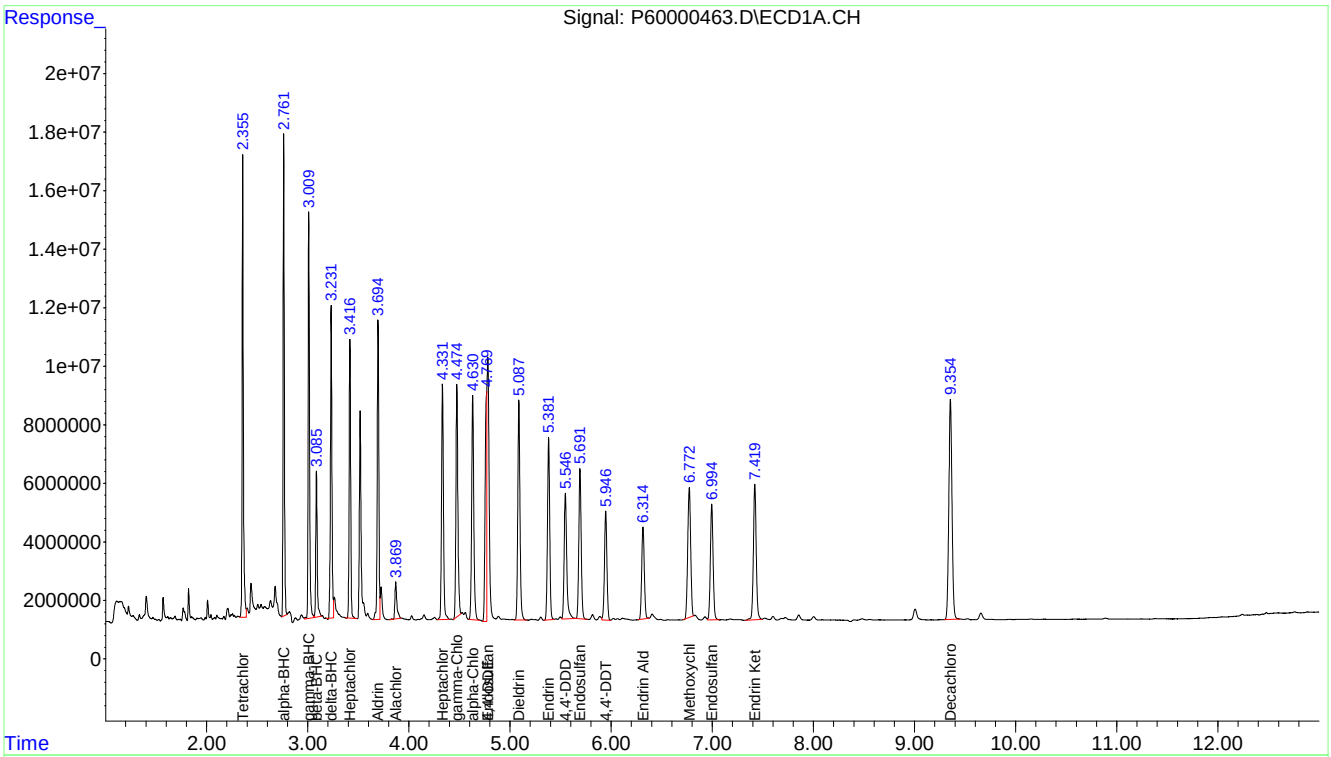
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	133623399	21.165 ng/mLm
2)	alpha-BHC	2.762	139839349	14.519 ng/mL
3)	gamma-BHC (Lindane)	3.010	131069462	15.641 ng/mL
4)	beta-BHC	3.086	50036410	15.842 ng/mL
5)	delta-BHC	3.232	108087383	15.170 ng/mL
6)	Heptachlor	3.416	98637136	14.289 ng/mL
7)	Aldrin	3.695	112938157	15.413 ng/mL
8)	Alachlor	3.870	17495326	13.312 ng/mL
9)	Heptachlor Epoxide	4.331	106106080	14.226 ng/mL
10)	gamma-Chlordane	4.474	106856228	14.127 ng/mL
11)	alpha-Chlordane	4.630	110803380	14.974 ng/mL
12)	Endosulfan I	4.780	139043159	15.730 ng/mLm
13)	4,4'-DDE	4.769	87184147	14.955 ng/mLm
14)	Dieldrin	5.087	112004500	15.942 ng/mL
15)	Endrin	5.381	94831208	16.281 ng/mL
16)	4,4'-DDD	5.547	76128785	13.741 ng/mL
17)	Endosulfan II	5.691	83465932	13.588 ng/mL
18)	4,4'-DDT	5.946	62861115	17.389 ng/mL
19)	Endrin Aldehyde	6.314	56242734	10.770 ng/mL
20)	Methoxychlor	6.773	89714703	15.212 ng/mL
21)	Endosulfan Sulfate	6.994	74168739	13.789 ng/mL
22)	Endrin Ketone	7.420	89715158	16.013 ng/mL
23)	Decachlorobiphenyl	9.355	164894934	31.160 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	299656500	24.517 ng/mL
26)	alpha-BHC #2	3.097	301709008	16.383 ng/mL
27)	gamma-BHC (lLindane) #2	3.427	278793352	16.946 ng/mL
28)	beta-BHC #2	3.514	110296888	15.978 ng/mL
29)	delta-BHC #2	3.814	240484563	15.724 ng/mL
30)	Heptachlor #2	3.874	236644260	17.295 ng/mL
31)	Aldrin #2	4.233	292618928	16.675 ng/mL
32)	Alachlor #2	4.137	34375160	16.083 ng/mL
33)	Heptachlor Epoxide #2	4.946	242357232	16.577 ng/mL
34)	gamma-Chlordane #2	5.201	269179179	16.829 ng/mL
35)	alpha-Chlordane #2	5.405	257581883	16.428 ng/mL
36)	Endosulfan I #2	5.473	237262508	16.459 ng/mL
37)	4,4'-DDE #2	5.687	272494184	16.137 ng/mL
38)	Dieldrin #2	5.874	260859359	16.203 ng/mL
39)	Endrin #2	6.329	213671912	18.553 ng/mL
40)	4.4'-DDD #2	6.587	175393881	14.835 ng/mL
41)	Endosulfan II #2	6.676	200873543	14.591 ng/mL
42)	4,4'-DDT #2	7.097	147654992	17.645 ng/mL
43)	Endrin Aldehyde #2	7.246	129381571	12.359 ng/mL
44)	Methoxychlor #2	8.376	70797200	18.586 ng/mL
45)	Endosulfan Sulfate #2	7.724	167584698	14.952 ng/mL
46)	Endrin Ketone #2	8.642	195031808	17.343 ng/mL
47)	Decachlorobiphenyl #2	11.111	369751672	34.910 ng/mL

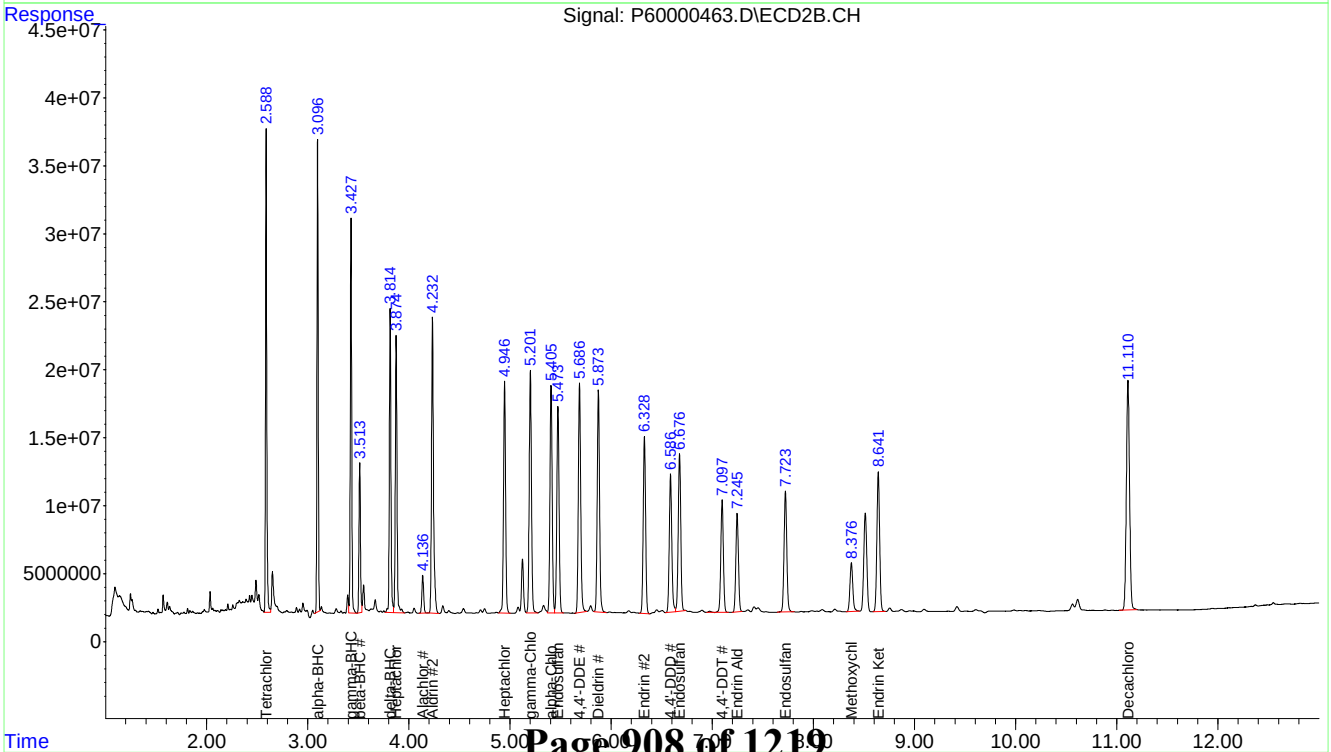
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000463.D
Acq On : 11 Feb 2020 6:31 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00362-MS1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 32 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 12 06:23:06 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000464.D
Acq On : 11 Feb 2020 6:48 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00362-MSD1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 33 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 12 06:23:58 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e

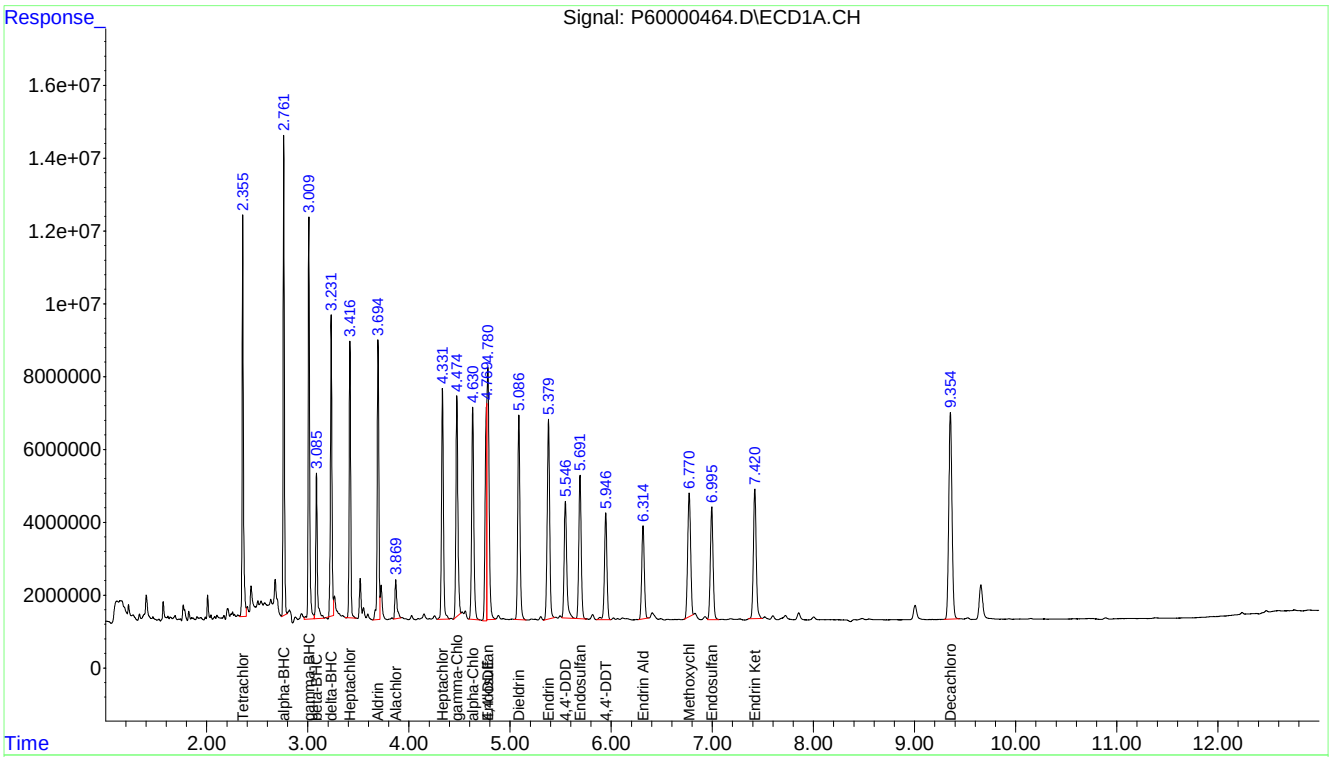
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Tetrachloro-m-Xylene	2.355	95800723	15.174 ng/mLm
2)	alpha-BHC	2.762	111858318	11.614 ng/mL
3)	gamma-BHC (Lindane)	3.010	106831672	12.749 ng/mL
4)	beta-BHC	3.086	43325436	13.718 ng/mL
5)	delta-BHC	3.232	84529131	11.864 ng/mL
6)	Heptachlor	3.416	77943486	11.291 ng/mL
7)	Aldrin	3.694	87533508	11.946 ng/mL
8)	Alachlor	3.870	14526064	11.053 ng/mL
9)	Heptachlor Epoxide	4.331	82699696	11.088 ng/mL
10)	gamma-Chlordane	4.474	82689031	10.932 ng/mL
11)	alpha-Chlordane	4.630	86070492	11.632 ng/mL
12)	Endosulfan I	4.780	103182755	11.673 ng/mLm
13)	4,4'-DDE	4.769	66084295	11.336 ng/mLm
14)	Dieldrin	5.087	86062288	12.250 ng/mL
15)	Endrin	5.380	91685336	15.741 ng/mL
16)	4,4'-DDD	5.547	57063433	10.300 ng/mL
17)	Endosulfan II	5.691	64671376	10.528 ng/mL
18)	4,4'-DDT	5.946	50572512	13.990 ng/mL
19)	Endrin Aldehyde	6.315	45355941	8.685 ng/mL
20)	Methoxychlor	6.771	68688424	11.647 ng/mL
21)	Endosulfan Sulfate	6.995	58198380	10.820 ng/mL
22)	Endrin Ketone	7.420	69188818	12.349 ng/mL
23)	Decachlorobiphenyl	9.355	126629839	23.929 ng/mL
25)	Tetrachloro-m-xylene #2	2.588	217631878	17.806 ng/mL
26)	alpha-BHC #2	3.097	246796545	13.401 ng/mL
27)	gamma-BHC (lLindane) #2	3.427	226439072	13.764 ng/mL
28)	beta-BHC #2	3.513	89347912	12.943 ng/mL
29)	delta-BHC #2	3.814	194458317	12.715 ng/mL
30)	Heptachlor #2	3.874	189432873	13.844 ng/mL
31)	Aldrin #2	4.232	229973048	13.105 ng/mL
32)	Alachlor #2	4.136	29061576	13.597 ng/mL
33)	Heptachlor Epoxide #2	4.945	193053936	13.205 ng/mL
34)	gamma-Chlordane #2	5.200	211180380	13.203 ng/mL
35)	alpha-Chlordane #2	5.405	202299745	12.902 ng/mL
36)	Endosulfan I #2	5.473	186075911	12.908 ng/mL
37)	4,4'-DDE #2	5.686	209578095	12.411 ng/mL
38)	Dieldrin #2	5.873	208369706	12.943 ng/mL
39)	Endrin #2	6.328	165521180	14.372 ng/mL
40)	4.4'-DDD #2	6.587	131875153	11.154 ng/mL
41)	Endosulfan II #2	6.676	156421887	11.362 ng/mL
42)	4,4'-DDT #2	7.096	113322962	13.489 ng/mL
43)	Endrin Aldehyde #2	7.245	104813320	10.012 ng/mL
44)	Methoxychlor #2	8.374	53879073	14.145 ng/mL
45)	Endosulfan Sulfate #2	7.723	131620814	11.743 ng/mL
46)	Endrin Ketone #2	8.641	151936156	13.510 ng/mL
47)	Decachlorobiphenyl #2	11.110	289868248	27.368 ng/mL

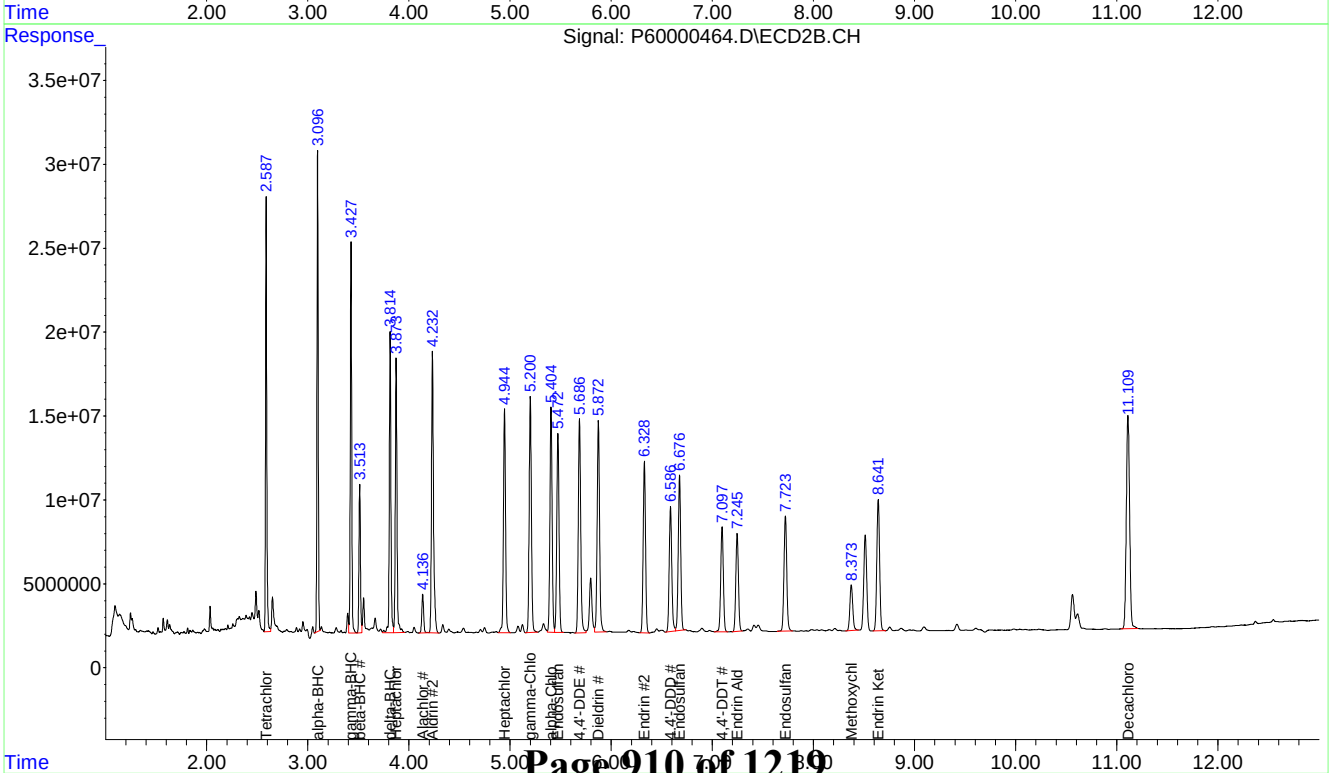
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\021120A\
Data File : P60000464.D
Acq On : 11 Feb 2020 6:48 pm
Operator : CM
DataAcq Meth:PEST6PULSEDACQ.M
Sample : BB00362-MSD1
Misc : QBPST6021120A
InstName : GCECD6
ALS Vial : 33 (Sig #1); 0 (Sig #2)
SmplMult : 1

Quant Time: Feb 12 06:23:58 2020
Quant Method : C:\msdchem\PS6011720.M
Quant Title : Pesticides 8081/608
QLast Update : Sun Jan 19 09:48:47 2020
Response via : Initial Calibration
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Integration File signal 1: autoint1.e
Integration File signal 2: events2.e





BENCHSHEETS

SDG: 20B0093

CLASS: PEST

METHOD: EPA 8081B

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00283

Preparation Date: 02/07/2020 07:48

York Analytical Laboratories, Inc. **Printed: 2/11/2020 9:37:26AM**

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20B076 100 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0027-01 A	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0027-02 A	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0027-03 A	Polychlorinated Biphenyls (PCB)	30.8	10				
20B0027-04 A	Polychlorinated Biphenyls (PCB)	30.6	10				
20B0027-05 A	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0027-06 A	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0027-07 A	Polychlorinated Biphenyls (PCB)	30.7	10				
20B0027-08 A	Polychlorinated Biphenyls (PCB)	30.4	10				MUD/WATER
20B0046-01 D	Polychlorinated Biphenyls (PCB)	30.3	10				STICKY
20B0046-02 D	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0046-03 B	Polychlorinated Biphenyls (PCB)	30.3	10				
20B0046-04 B	Polychlorinated Biphenyls (PCB)	30.8	10				
20B0046-05 C	Polychlorinated Biphenyls (PCB)	30.4	10				STICKY
20B0046-06 B	Polychlorinated Biphenyls (PCB)	30.5	10				
20B0046-07 B	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0046-08 B	Polychlorinated Biphenyls (PCB)	30.4	10				
20B0093-01 F	Pesticides, 8081 target list	30.4	10				
20B0093-01 F	Polychlorinated Biphenyls (PCB)	30.4	10				
20B0168-01 A	Polychlorinated Biphenyls (PCB)	30.7	10				
20B0168-10 A	Pesticides, 8081 target list	30.7	10				
20B0215-01 A	Polychlorinated Biphenyls (PCB)	30.8	10				WET
BB00283-BLK1	QC	30.1	10				
BB00283-BLK2	QC	30.1	10				
BB00283-BS1	QC	30.1	10	Y20A380		100	
BB00283-BS2	QC	30.1	10	Y20A346		100	
BB00283-MS1	QC	30.1	10	Y20A380	20B0093-01	100	
BB00283-MS2	QC	30.1	10	Y20A346	20B0093-01	100	
BB00283-MSD1	QC	30.1	10	Y20A380	20B0093-01	100	
BB00283-MSD2	QC	30.1	10	Y20A346	20B0093-01	100	

Preparations Performed by **LJ** **Date:** **02/07/2020 07:48**

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00283

Preparation Date: 02/07/2020 07:48

York Analytical Laboratories, Inc.

Printed: 2/11/2020 9:37:26AM

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20B076 100 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y20A142	ACETONE	0000240527	Y20A423	HEXANE	DX860-US
Y20A427	Sodium Sulfate, Anhydrous	0000246249	Y20B075	Ottawa Sand Mix	020520

Preparations Performed by **LJ** **Date:** **02/07/2020 07:48**

BENCHSHEETS

SDG: 20B0093

CLASS: PEST

METHOD: EPA 8081B

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00362

Preparation Date: 02/10/2020 07:17

York Analytical Laboratories, Inc. **Printed: 2/12/2020 9:40:18AM**

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20B076 100 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0046-09 B	Polychlorinated Biphenyls (PCB)	30.3	10				
20B0046-12 B	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0046-13 B	Polychlorinated Biphenyls (PCB)	30.4	10				
20B0046-14 B	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0071-07 E	Polychlorinated Biphenyls (PCB)	30.3	10				
20B0071-08 E	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0093-02 E	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0093-02 E	Pesticides, 8081 target list	30.1	10				
20B0093-03 E	Polychlorinated Biphenyls (PCB)	30.6	10				
20B0093-03 E	Pesticides, 8081 target list	30.6	10				
20B0093-05 E	Polychlorinated Biphenyls (PCB)	30.5	10				
20B0093-05 E	Pesticides, 8081 target list	30.5	10				
20B0093-06 E	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0093-06 E	Pesticides, 8081 target list	30.1	10				
20B0093-06 E	Pesticides, NYSDEC Part 375 Target List	30.1	10				Added for BatchQC in: BB0
20B0093-07 E	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0093-07 E	Pesticides, 8081 target list	30.1	10				
20B0122-08 A	Pesticides, NYSDEC Part 375 Target List	30.1	10				
20B0122-08 A	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0122-09 A	Pesticides, NYSDEC Part 375 Target List	30.2	10				
20B0122-09 A	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0124-01 A	Polychlorinated Biphenyls (PCB)	10.3	10				SLUDGE
20B0166-01 B	Pesticides, 8081 target list	30.4	10				CONCRETE SOIL MIX
20B0166-01 B	Polychlorinated Biphenyls (PCB)	30.4	10				CONCRETE SOIL MIX
20B0166-02 A	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0166-02 A	Pesticides, 8081 target list	30.1	10				
20B0166-04 B	Pesticides, 8081 target list	30.4	10				SOIL BRICK MIX
20B0166-04 B	Polychlorinated Biphenyls (PCB)	30.4	10				SOIL BRICK MIX
20B0166-05 A	Pesticides, 8081 target list	30.1	10				
20B0166-05 A	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0237-01 A	Pesticides, NYSDEC Part 375 Target List	30.4	10				MUD
20B0237-01 A	Polychlorinated Biphenyls (PCB)	30.4	10				MUD
20B0237-03 A	Pesticides, NYSDEC Part 375 Target List	30.4	10				MUD

Preparations Performed by **LM** **Date:** **02/10/2020 07:17**

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00362

Preparation Date: 02/10/2020 07:17

York Analytical Laboratories, Inc. **Printed: 2/12/2020 9:40:18AM**

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20B076 100 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0237-03 A	Polychlorinated Biphenyls (PCB)	30.4	10				MUD
BB00362-BLK1	QC	30.1	10				
BB00362-BLK2	QC	30.1	10				
BB00362-BS1	QC	30.1	10	Y20A380		100	
BB00362-BS2	QC	30.1	10	Y20A346		100	
BB00362-MS1	QC	30.1	10	Y20A380	20B0093-06	100	
BB00362-MS2	QC	30.1	10	Y20A346	20B0093-06	100	
BB00362-MSD1	QC	30.1	10	Y20A380	20B0093-06	100	
BB00362-MSD2	QC	30.1	10	Y20A346	20B0093-06	100	

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y20A142	ACETONE	0000240527	Y20A423	HEXANE	DX860-US
Y20A427	Sodium Sulfate, Anhydrous	0000246249	Y20B075	Ottawa Sand Mix	020520

Preparations Performed by **LM** **Date:** **02/10/2020 07:17**

York Analytical Laboratories, Inc.
SDG: 20B0093
CLASS: ARO
METHOD: EPA 8082A

DATA PACKAGE COVER PAGE

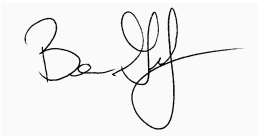
EPA 8082A

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093

Client: Roux Associates
Project: 3475.00014000 Lafayette

Client Sample Id:	Lab Sample Id:
SB-1 (0-2)	20B0093-01
SB-1 (11-13)	20B0093-02
SB-3 (0-2)	20B0093-03
SB-3 (13-15)	20B0093-05
SB-4 (0-2)	20B0093-06
SB-4 (13-15)	20B0093-07

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: 2/21/2020

Title: Laboratory Director

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

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B0739 Instrument: ECD#1

Calibration: YE90020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B0739-CCV1)			Lab File ID: P1063385.D		Analyzed: 02/07/20 11:06			
Tetrachloro-m-xylene	0.160	112	0 - 200	2.64	2.63	0.0100	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	154	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	132	0 - 200	8.8	8.781666	0.0183	+/-0.05	
Decachlorobiphenyl [2C]	0.160	179	80 - 120	7.58	7.63	-0.0500	+/-0.05	*
Calibration Check (Y0B0739-CCV2)			Lab File ID: P1063405.D		Analyzed: 02/07/20 15:40			
Tetrachloro-m-xylene	0.160	114	0 - 200	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	159	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	149	0 - 200	8.78	8.781666	-0.0017	+/-0.05	
Decachlorobiphenyl [2C]	0.160	201	80 - 120	7.58	7.63	-0.0500	+/-0.05	*
Calibration Check (Y0B0739-CCV3)			Lab File ID: P1063409.D		Analyzed: 02/07/20 16:34			
Tetrachloro-m-xylene	0.160	115	0 - 200	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	159	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	145	0 - 200	8.78	8.781666	-0.0017	+/-0.05	
Decachlorobiphenyl [2C]	0.160	194	80 - 120	7.58	7.63	-0.0500	+/-0.05	*
Blank (BB00283-BLK2)			Lab File ID: P1063422.D		Analyzed: 02/07/20 19:32			
Tetrachloro-m-xylene	0.0664	96.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0664	128	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0664	103	30 - 140	8.78	8.781666	-0.0017	+/-0.05	
Decachlorobiphenyl [2C]	0.0664	136	30 - 140	7.58	7.63	-0.0500	+/-0.05	
LCS (BB00283-BS2)			Lab File ID: P1063423.D		Analyzed: 02/07/20 19:45			
Tetrachloro-m-xylene	0.0664	88.0	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0664	121	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0664	84.5	30 - 140	8.78	8.781666	-0.0017	+/-0.05	
Decachlorobiphenyl [2C]	0.0664	110	30 - 140	7.58	7.63	-0.0500	+/-0.05	
Calibration Check (Y0B0739-CCV4)			Lab File ID: P1063430.D		Analyzed: 02/07/20 21:21			
Tetrachloro-m-xylene	0.160	115	80 - 120	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	157	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	137	80 - 120	8.78	8.781666	-0.0017	+/-0.05	*
Decachlorobiphenyl [2C]	0.160	174	80 - 120	7.58	7.63	-0.0500	+/-0.05	*
SB-1 (0-2) (20B0093-01)			Lab File ID: P1063441.D		Analyzed: 02/07/20 23:51			
Tetrachloro-m-xylene	0.0812	71.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0812	99.0	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0812	62.5	30 - 140	8.78	8.781666	-0.0017	+/-0.05	
Decachlorobiphenyl [2C]	0.0812	79.5	30 - 140	7.58	7.63	-0.0500	+/-0.05	

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

EPA 8082A

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B0739
Instrument: ECD#1
Calibration: YE90020

Surrogate Compound	Spike Level mg/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike (BB00283-MS2)				Lab File ID: P1063444.D		Analyzed: 02/08/20 00:32		
Tetrachloro-m-xylene	0.0820	77.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0820	104	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0820	76.0	30 - 140	8.78	8.781666	-0.0017	+/-0.05	
Decachlorobiphenyl [2C]	0.0820	92.0	30 - 140	7.58	7.63	-0.0500	+/-0.05	
Matrix Spike Dup (BB00283-MSD2)				Lab File ID: P1063445.D		Analyzed: 02/08/20 00:45		
Tetrachloro-m-xylene	0.0820	74.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0820	105	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0820	80.5	30 - 140	8.78	8.781666	-0.0017	+/-0.05	
Decachlorobiphenyl [2C]	0.0820	100	30 - 140	7.58	7.63	-0.0500	+/-0.05	
Calibration Check (Y0B0739-CCV5)				Lab File ID: P1063446.D		Analyzed: 02/08/20 00:59		
Tetrachloro-m-xylene	0.160	118	80 - 120	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	161	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	138	80 - 120	8.78	8.781666	-0.0017	+/-0.05	*
Decachlorobiphenyl [2C]	0.160	175	80 - 120	7.58	7.63	-0.0500	+/-0.05	*

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

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1025 Instrument: ECD#1

Calibration: YE90020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y0B1025-CCV1)			Lab File ID: P1063446.D		Analyzed: 02/10/20 12:36			
Tetrachloro-m-xylene	0.160	103	80 - 120	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	146	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	117	80 - 120	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.160	148	80 - 120	7.58	7.63	-0.0500	+/-0.05	*
Calibration Check (Y0B1025-CCV2)			Lab File ID: P1063455.D		Analyzed: 02/10/20 14:39			
Tetrachloro-m-xylene	0.160	108	80 - 120	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	153	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	118	80 - 120	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.160	159	80 - 120	7.58	7.63	-0.0500	+/-0.05	*
Blank (BB00362-BLK2)			Lab File ID: P1063474.D		Analyzed: 02/10/20 19:11			
Tetrachloro-m-xylene	0.0664	91.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0664	128	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0664	87.5	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0664	123	30 - 140	7.58	7.63	-0.0500	+/-0.05	
LCS (BB00362-BS2)			Lab File ID: P1063475.D		Analyzed: 02/10/20 19:24			
Tetrachloro-m-xylene	0.0664	96.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0664	136	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0664	96.0	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0664	136	30 - 140	7.58	7.63	-0.0500	+/-0.05	
Calibration Check (Y0B1025-CCV3)			Lab File ID: P1063476.D		Analyzed: 02/10/20 19:38			
Tetrachloro-m-xylene	0.160	112	80 - 120	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	156	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	131	80 - 120	8.77	8.781666	-0.0117	+/-0.05	*
Decachlorobiphenyl [2C]	0.160		80 - 120		7.63	-7.6300	+/-0.05	*
Matrix Spike (BB00362-MS2)			Lab File ID: P1063477.D		Analyzed: 02/10/20 19:52			
Tetrachloro-m-xylene	0.0747	77.0	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0747	107	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0747	76.5	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0747	104	30 - 140	7.58	7.63	-0.0500	+/-0.05	
Matrix Spike Dup (BB00362-MSD2)			Lab File ID: P1063478.D		Analyzed: 02/10/20 20:05			
Tetrachloro-m-xylene	0.0747	80.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0747	112	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0747	80.5	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0747	106	30 - 140	7.58	7.63	-0.0500	+/-0.05	

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

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Sequence: Y0B1025 Instrument: ECD#1

Calibration: YE90020

Surrogate Compound	Spike Level mg/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SB-1 (11-13) (20B0093-02)			Lab File ID: P1063485.D		Analyzed: 02/10/20 21:40			
Tetrachloro-m-xylene	0.0863	70.0	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0863	87.5	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0863	66.5	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0863	87.5	30 - 140	7.58	7.63	-0.0500	+/-0.05	
SB-3 (0-2) (20B0093-03)			Lab File ID: P1063486.D		Analyzed: 02/10/20 21:54			
Tetrachloro-m-xylene	0.0747	64.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0747	89.0	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0747	61.5	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0747	78.5	30 - 140	7.58	7.63	-0.0500	+/-0.05	
SB-3 (13-15) (20B0093-05)			Lab File ID: P1063487.D		Analyzed: 02/10/20 22:08			
Tetrachloro-m-xylene	0.0817	64.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0817	90.5	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0817	65.5	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0817	85.0	30 - 140	7.58	7.63	-0.0500	+/-0.05	
SB-4 (0-2) (20B0093-06)			Lab File ID: P1063488.D		Analyzed: 02/10/20 22:21			
Tetrachloro-m-xylene	0.0747	73.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0747	102	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0747	71.5	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0747	96.0	30 - 140	7.58	7.63	-0.0500	+/-0.05	
SB-4 (13-15) (20B0093-07)			Lab File ID: P1063489.D		Analyzed: 02/10/20 22:35			
Tetrachloro-m-xylene	0.0891	63.5	30 - 140	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.0891	92.5	30 - 140	2.05	2.07	-0.0200	+/-0.05	
Decachlorobiphenyl	0.0891	48.5	30 - 140	8.77	8.781666	-0.0117	+/-0.05	
Decachlorobiphenyl [2C]	0.0891	65.5	30 - 140	7.58	7.63	-0.0500	+/-0.05	
Calibration Check (Y0B1025-CCV4)			Lab File ID: P1063497.D		Analyzed: 02/11/20 00:23			
Tetrachloro-m-xylene	0.160	111	80 - 120	2.63	2.63	0.0000	+/-0.05	
Tetrachloro-m-xylene [2C]	0.160	161	80 - 120	2.05	2.07	-0.0200	+/-0.05	*
Decachlorobiphenyl	0.160	128	80 - 120	8.77	8.781666	-0.0117	+/-0.05	*
Decachlorobiphenyl [2C]	0.160	174	80 - 120	7.58	7.63	-0.0500	+/-0.05	*

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

SB-1 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00283	Laboratory ID:	BB00283-MS2
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Source Sample Name: SB-1 (0-2)

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Aroclor 1016	0.410	ND	0.206	50.2	40 - 140
Aroclor 1016 [2C]	0.410	ND	0.316	77.0	40 - 140
Aroclor 1260	0.410	0.0448	0.298	61.7	40 - 140
Aroclor 1260 [2C]	0.410	0.0699	0.433	88.6	40 - 140

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

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

SB-1 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00283	Laboratory ID:	BB00283-MSD2
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Source Sample Name: SB-1 (0-2)

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	0.410	0.264	64.3	24.6	50	40 - 140
Aroclor 1016 [2C]	0.410	0.385	93.9	19.7	50	40 - 140
Aroclor 1260	0.410	0.377	80.9	23.3	50	40 - 140
Aroclor 1260 [2C]	0.410	0.558	119	25.2	50	40 - 140

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

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00362	Laboratory ID:	BB00362-MS2
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Aroclor 1016	0.374	ND	0.213	57.1	40 - 140
Aroclor 1016 [2C]	0.374	ND	0.313	83.6	40 - 140
Aroclor 1260	0.374	ND	0.258	69.0	40 - 140
Aroclor 1260 [2C]	0.374	ND	0.411	110	40 - 140

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

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00362	Laboratory ID:	BB00362-MSD2
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	0.374	0.218	58.5	2.32	50	40 - 140
Aroclor 1016 [2C]	0.374	0.278	74.5	11.6	50	40 - 140
Aroclor 1260	0.374	0.264	70.6	2.21	50	40 - 140
Aroclor 1260 [2C]	0.374	0.416	111	1.21	50	40 - 140

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 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00283	Laboratory ID:	BB00283-BS2
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	0.332	0.313	94.1	40 - 130
Aroclor 1016 [2C]	0.332	0.443	133 *	40 - 130
Aroclor 1260	0.332	0.317	95.5	40 - 130
Aroclor 1260 [2C]	0.332	0.461	139	40 - 150

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 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00362	Laboratory ID:	BB00362-BS2
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	0.332	0.337	101	40 - 130
Aroclor 1016 [2C]	0.332	0.510	154 *	40 - 130
Aroclor 1260	0.332	0.336	101	40 - 130
Aroclor 1260 [2C]	0.332	0.563	170 *	40 - 150

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

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00283 Batch Matrix: Soil Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (0-2)	20B0093-01	P1063441.D	02/07/20 07:48	
Blank	BB00283-BLK2	P1063422.D	02/07/20 07:48	
LCS	BB00283-BS2	P1063423.D	02/07/20 07:48	
SB-1 (0-2)	BB00283-MS2	P1063444.D	02/07/20 07:48	
SB-1 (0-2)	BB00283-MSD2	P1063445.D	02/07/20 07:48	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00362 Batch Matrix: Soil Preparation: EPA 3550C

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (11-13)	20B0093-02	P1063485.D	02/10/20 07:17	
SB-3 (0-2)	20B0093-03	P1063486.D	02/10/20 07:17	
SB-3 (13-15)	20B0093-05	P1063487.D	02/10/20 07:17	
SB-4 (0-2)	20B0093-06	P1063488.D	02/10/20 07:17	
SB-4 (13-15)	20B0093-07	P1063489.D	02/10/20 07:17	
Blank	BB00362-BLK2	P1063474.D	02/10/20 07:17	
LCS	BB00362-BS2	P1063475.D	02/10/20 07:17	
SB-4 (0-2)	BB00362-MS2	P1063477.D	02/10/20 07:17	
SB-4 (0-2)	BB00362-MSD2	P1063478.D	02/10/20 07:17	

FORM I

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00283-BLK2	File ID:	P1063422.D
Prepared:	02/07/20 07:48	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/07/20 19:32	Instrument:	ECD#1		
Batch:	BB00283	Sequence:	Y0B0739	Calibration:	YE90020

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
12674-11-2	Aroclor 1016	0.0166	U
12674-11-2	Aroclor 1016 [2C]	0.0166	U
11104-28-2	Aroclor 1221	0.0166	U
11104-28-2	Aroclor 1221 [2C]	0.0166	U
11141-16-5	Aroclor 1232	0.0166	U
11141-16-5	Aroclor 1232 [2C]	0.0166	U
53469-21-9	Aroclor 1242	0.0166	U
53469-21-9	Aroclor 1242 [2C]	0.0166	U
12672-29-6	Aroclor 1248	0.0166	U
12672-29-6	Aroclor 1248 [2C]	0.0166	U
11097-69-1	Aroclor 1254	0.0166	U
11097-69-1	Aroclor 1254 [2C]	0.0166	U
11096-82-5	Aroclor 1260	0.0166	U
11096-82-5	Aroclor 1260 [2C]	0.0166	U
1336-36-3	Total PCBs	0.0166	U
1336-36-3	Total PCBs [2C]	0.0166	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0664	0.0684	103	30 - 140	
Decachlorobiphenyl [2C]	0.0664	0.0904	136	30 - 140	
Tetrachloro-m-xylene	0.0664	0.0641	96.5	30 - 140	
Tetrachloro-m-xylene [2C]	0.0664	0.0850	128	30 - 140	

FORM I

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00362-BLK2	File ID:	P1063474.D
Prepared:	02/10/20 07:17	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/10/20 19:11	Instrument:	ECD#1		
Batch:	BB00362	Sequence:	Y0B1025	Calibration:	YE90020

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
12674-11-2	Aroclor 1016	0.0166	U
12674-11-2	Aroclor 1016 [2C]	0.0166	U
11104-28-2	Aroclor 1221	0.0166	U
11104-28-2	Aroclor 1221 [2C]	0.0166	U
11141-16-5	Aroclor 1232	0.0166	U
11141-16-5	Aroclor 1232 [2C]	0.0166	U
53469-21-9	Aroclor 1242	0.0166	U
53469-21-9	Aroclor 1242 [2C]	0.0166	U
12672-29-6	Aroclor 1248	0.0166	U
12672-29-6	Aroclor 1248 [2C]	0.0166	U
11097-69-1	Aroclor 1254	0.0166	U
11097-69-1	Aroclor 1254 [2C]	0.0166	U
11096-82-5	Aroclor 1260	0.0166	U
11096-82-5	Aroclor 1260 [2C]	0.0166	U
1336-36-3	Total PCBs	0.0166	U
1336-36-3	Total PCBs [2C]	0.0166	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.0664	0.0581	87.5	30 - 140	
Decachlorobiphenyl [2C]	0.0664	0.0817	123	30 - 140	
Tetrachloro-m-xylene	0.0664	0.0608	91.5	30 - 140	
Tetrachloro-m-xylene [2C]	0.0664	0.0854	128	30 - 140	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0B0739	Instrument:	ECD#1
		Calibration:	YE90020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	Y0B0739-CCV1	P1063385.D	02/07/20 11:06
Aroclor Reference	Y0B0739-ARC1	P1063386.D	02/07/20 11:20
Calibration Check	Y0B0739-CCV2	P1063405.D	02/07/20 15:40
Calibration Check	Y0B0739-CCV3	P1063409.D	02/07/20 16:34
Blank	BB00283-BLK2	P1063422.D	02/07/20 19:32
LCS	BB00283-BS2	P1063423.D	02/07/20 19:45
Calibration Check	Y0B0739-CCV4	P1063430.D	02/07/20 21:21
SB-1 (0-2)	20B0093-01	P1063441.D	02/07/20 23:51
SB-1 (0-2)	BB00283-MS2	P1063444.D	02/08/20 00:32
SB-1 (0-2)	BB00283-MSD2	P1063445.D	02/08/20 00:45
Calibration Check	Y0B0739-CCV5	P1063446.D	02/08/20 00:59

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y0B1025	Instrument:	ECD#1
		Calibration:	YE90020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	Y0B1025-CCV1	P1063446.D	02/10/20 12:36
Aroclor Reference	Y0B1025-ARC1	P1063447.D	02/10/20 12:50
Calibration Check	Y0B1025-CCV2	P1063455.D	02/10/20 14:39
Blank	BB00362-BLK2	P1063474.D	02/10/20 19:11
LCS	BB00362-BS2	P1063475.D	02/10/20 19:24
Calibration Check	Y0B1025-CCV3	P1063476.D	02/10/20 19:38
SB-4 (0-2)	BB00362-MS2	P1063477.D	02/10/20 19:52
SB-4 (0-2)	BB00362-MSD2	P1063478.D	02/10/20 20:05
SB-1 (11-13)	20B0093-02	P1063485.D	02/10/20 21:40
SB-3 (0-2)	20B0093-03	P1063486.D	02/10/20 21:54
SB-3 (13-15)	20B0093-05	P1063487.D	02/10/20 22:08
SB-4 (0-2)	20B0093-06	P1063488.D	02/10/20 22:21
SB-4 (13-15)	20B0093-07	P1063489.D	02/10/20 22:35
Calibration Check	Y0B1025-CCV4	P1063497.D	02/11/20 00:23

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Sequence:	Y9E1632	Instrument:	ECD#1
		Calibration:	YE90020

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	Y9E1632-CAL1	P1049336.D	05/15/19 16:45
Cal Standard	Y9E1632-CAL2	P1049337.D	05/15/19 16:59
Cal Standard	Y9E1632-CAL3	P1049338.D	05/15/19 17:12
Cal Standard	Y9E1632-CAL4	P1049339.D	05/15/19 17:26
Cal Standard	Y9E1632-CAL5	P1049340.D	05/15/19 17:39
Cal Standard	Y9E1632-CAL6	P1049341.D	05/15/19 17:53
Secondary Cal Check	Y9E1632-SCV1	P1049342.D	05/15/19 18:06
Aroclor Reference	Y9E1632-ARC1	P1049351.D	05/15/19 20:08

HOLDING TIME SUMMARY

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

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
SB-1 (0-2)	02/04/20 09:40	02/04/20 19:35	02/07/20 07:48	2.92	14.00	02/07/20 23:51	0.67	40.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/10/20 07:17	5.88	14.00	02/10/20 21:40	0.60	40.00	
SB-3 (0-2)	02/04/20 12:45	02/04/20 19:35	02/10/20 07:17	5.77	14.00	02/10/20 21:54	0.61	40.00	
SB-3 (13-15)	02/04/20 13:25	02/04/20 19:35	02/10/20 07:17	5.74	14.00	02/10/20 22:08	0.62	40.00	
SB-4 (0-2)	02/04/20 14:50	02/04/20 19:35	02/10/20 07:17	5.69	14.00	02/10/20 22:21	0.63	40.00	
SB-4 (13-15)	02/04/20 15:00	02/04/20 19:35	02/10/20 07:17	5.68	14.00	02/10/20 22:35	0.64	40.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** ECD#1

Analyte	LOD	LOQ	Units
Aroclor 1016	0.0167	0.0167	mg/kg
Aroclor 1016 [2C]	0.0167	0.0167	mg/kg
Aroclor 1221	0.0167	0.0167	mg/kg
Aroclor 1221 [2C]	0.0167	0.0167	mg/kg
Aroclor 1232	0.0167	0.0167	mg/kg
Aroclor 1232 [2C]	0.0167	0.0167	mg/kg
Aroclor 1242	0.0167	0.0167	mg/kg
Aroclor 1242 [2C]	0.0167	0.0167	mg/kg
Aroclor 1248	0.0167	0.0167	mg/kg
Aroclor 1248 [2C]	0.0167	0.0167	mg/kg
Aroclor 1254	0.0167	0.0167	mg/kg
Aroclor 1254 [2C]	0.0167	0.0167	mg/kg
Aroclor 1260	0.0167	0.0167	mg/kg
Aroclor 1260 [2C]	0.0167	0.0167	mg/kg
Total PCBs	0.0167	0.0167	mg/kg
Total PCBs [2C]	0.0167	0.0167	mg/kg

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

SB-1 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-01	File ID:	P1063441.D
Sampled:	02/04/20 09:40	Prepared:	02/07/20 07:48	Analyzed:	02/07/20 23:51
Solids:	81.01	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL
Batch:	BB00283	Sequence:	Y0B0739	Calibration:	YE90020
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0203	U
11104-28-2	Aroclor 1221	1	0.0203	U
11141-16-5	Aroclor 1232	1	0.0203	U
53469-21-9	Aroclor 1242	1	0.0203	U
12672-29-6	Aroclor 1248	1	0.0203	U
11097-69-1	Aroclor 1254	1	0.0203	U
11096-82-5	Aroclor 1260	1	0.0448	P
1336-36-3	Total PCBs	1	0.0448	P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0812	0.0581	71.5	30 - 140	
Decachlorobiphenyl	0.0812	0.0508	62.5	30 - 140	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063441.D\ECD1A.CH Vial: 54
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063441.D\ECD2B.CH
Acq On : 2-7-2020 11:51:23 PM Operator: SR
Sample : 20B0093-01 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 10:59 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	2.63	2.05	934.0E6	1646.6E6	0.143	0.198	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		71.50%	99.00%	
45)	S Decachlorobiphen	8.78	7.58f	499.0E6	860.9E6	0.125	0.159	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		62.50%	79.50%	
	Target Compounds							
30)	T 1260 1	5.66	4.63f	32377496	59004843	0.096	0.145	#
31)	T 1260 2	5.99	4.87f	64411891	76301147	0.126	0.161	#
32)	T 1260 3	6.32	5.25f	43630614	104.1E6	0.093	0.187	m#
33)	T 1260 4	6.43	5.31f	28142452	58470218	0.124	0.205	m#
34)	T 1260 5	7.11	5.93f	60963089	109.1E6	0.113	0.163	#

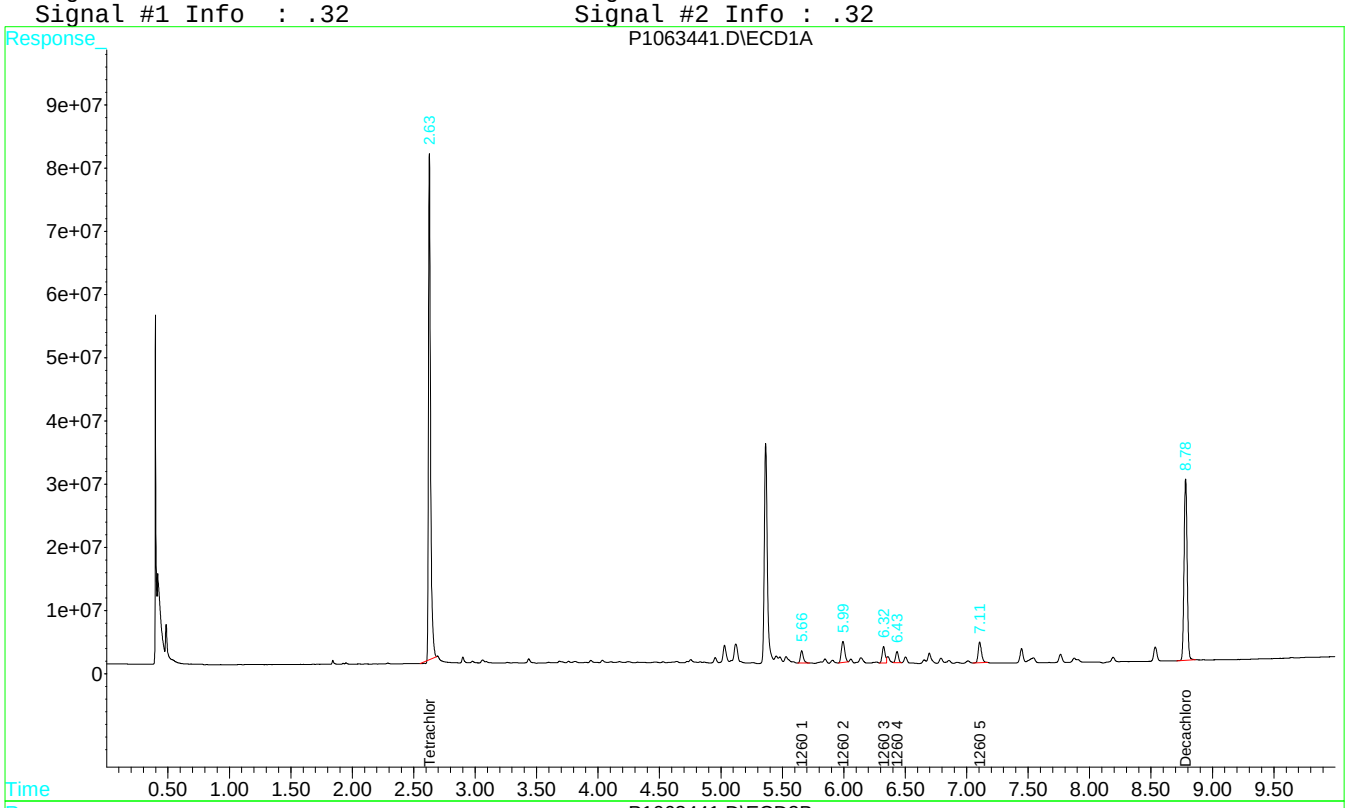
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063441.D P1051519.M Mon Feb 10 11:06:17 2020 Page 1

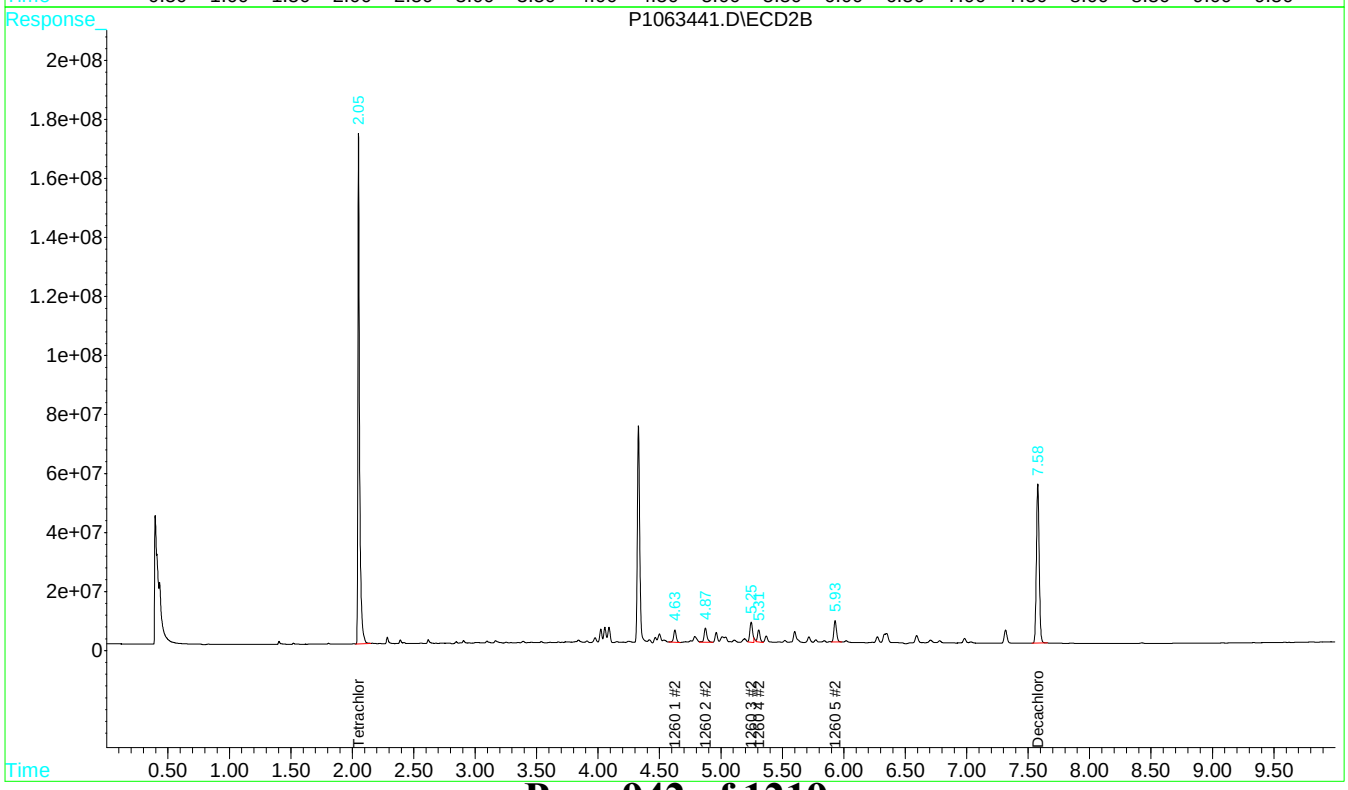
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063441.D\ECD1A.CH Vial: 54
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063441.D\ECD2B.CH
Acq On : 2-7-2020 11:51:23 PM Operator: SR
Sample : 20B0093-01 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 10:59 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

SB-1 (11-13)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-02	File ID:	P1063485.D
Sampled:	02/04/20 10:10	Prepared:	02/10/20 07:17	Analyzed:	02/10/20 21:40
Solids:	76.97	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BB00362	Sequence:	Y0B1025	Calibration:	YE90020
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0216	U
11104-28-2	Aroclor 1221	1	0.0216	U
11141-16-5	Aroclor 1232	1	0.0216	U
53469-21-9	Aroclor 1242	1	0.0216	U
12672-29-6	Aroclor 1248	1	0.0216	U
11097-69-1	Aroclor 1254	1	0.0216	U
11096-82-5	Aroclor 1260	1	0.0216	U
1336-36-3	Total PCBs	1	0.0216	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0863	0.0604	70.0	30 - 140	
Decachlorobiphenyl	0.0863	0.0574	66.5	30 - 140	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063485.D\ECD1A.CH Vial: 38
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063485.D\ECD2B.CH
Acq On : 2-10-2020 9:40:47 PM Operator: SR
Sample : 20B0093-02 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:42 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.63	2.05	913.9E6	1460.7E6	0.140	0.175 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		70.00%	87.50%
45) S Decachlorobiphen	8.77	7.58f	531.2E6	950.5E6	0.133	0.175 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		66.50%	87.50%
Target Compounds						

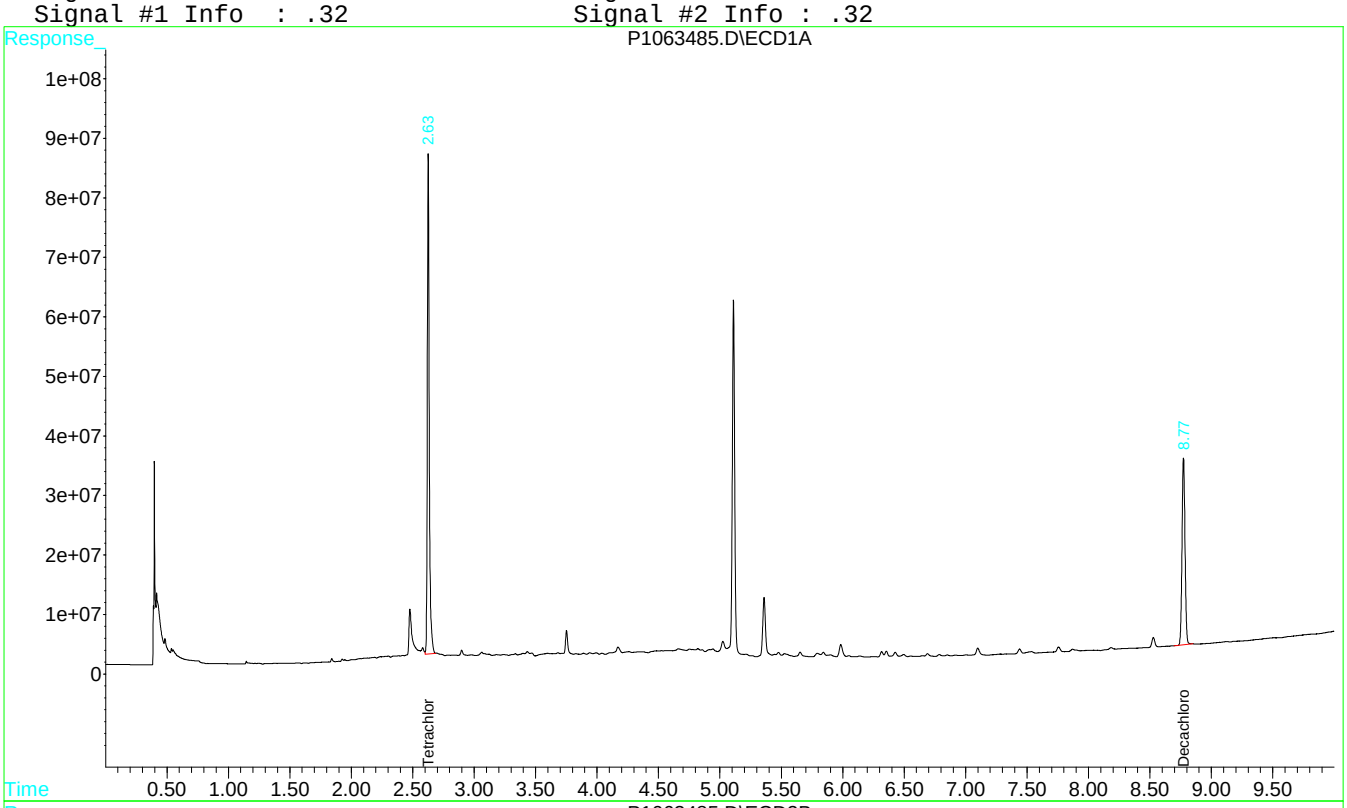
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

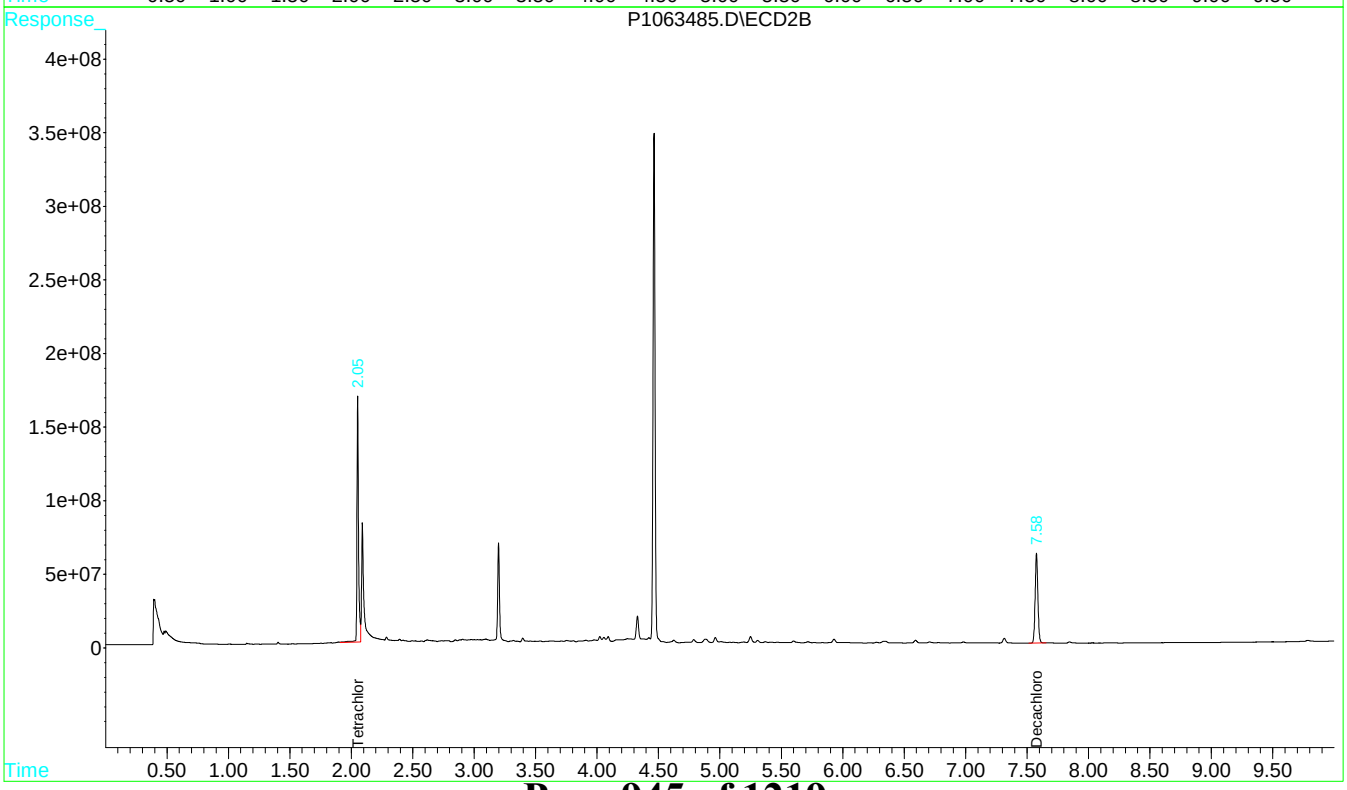
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063485.D\ECD1A.CH Vial: 38
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063485.D\ECD2B.CH
Acq On : 2-10-2020 9:40:47 PM Operator: SR
Sample : 20B0093-02 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:42 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

SB-3 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-03	File ID:	P1063486.D
Sampled:	02/04/20 12:45	Prepared:	02/10/20 07:17	Analyzed:	02/10/20 21:54
Solids:	87.50	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 10 mL
Batch:	BB00362	Sequence:	Y0B1025	Calibration:	YE90020
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0187	U
11104-28-2	Aroclor 1221	1	0.0187	U
11141-16-5	Aroclor 1232	1	0.0187	U
53469-21-9	Aroclor 1242	1	0.0187	U
12672-29-6	Aroclor 1248	1	0.0187	U
11097-69-1	Aroclor 1254	1	0.0187	U
11096-82-5	Aroclor 1260	1	0.0187	U
1336-36-3	Total PCBs	1	0.0187	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0747	0.0482	64.5	30 - 140	
Decachlorobiphenyl	0.0747	0.0459	61.5	30 - 140	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063486.D\ECD1A.CH Vial: 39
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063486.D\ECD2B.CH
Acq On : 2-10-2020 9:54:24 PM Operator: SR
Sample : 20B0093-03 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:42 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.63	2.05	844.4E6	1479.8E6	0.129	0.178 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		64.50%	89.00%
45) S Decachlorobiphen	8.77	7.58f	491.3E6	851.9E6	0.123	0.157 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		61.50%	78.50%
Target Compounds						

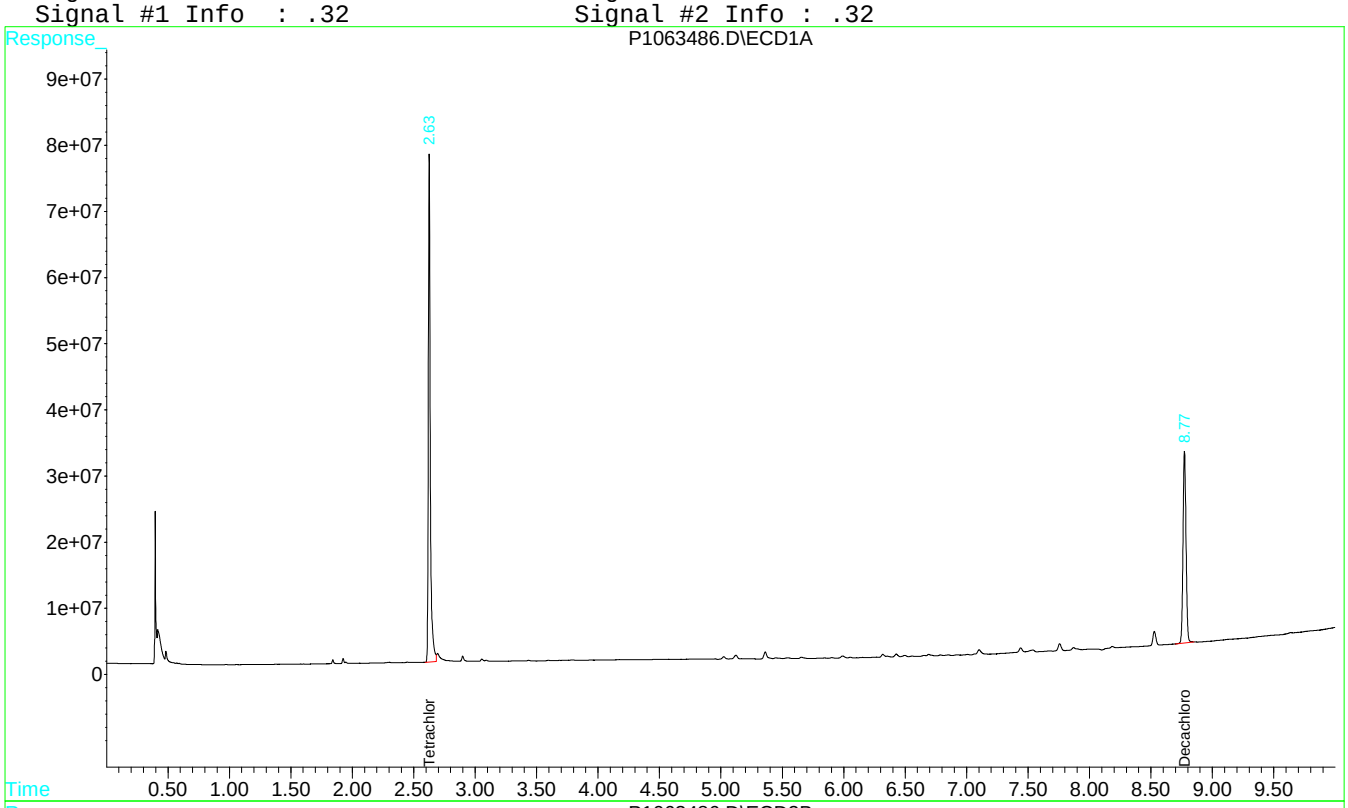
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063486.D P1051519.M Tue Feb 11 09:50:30 2020 Page 1

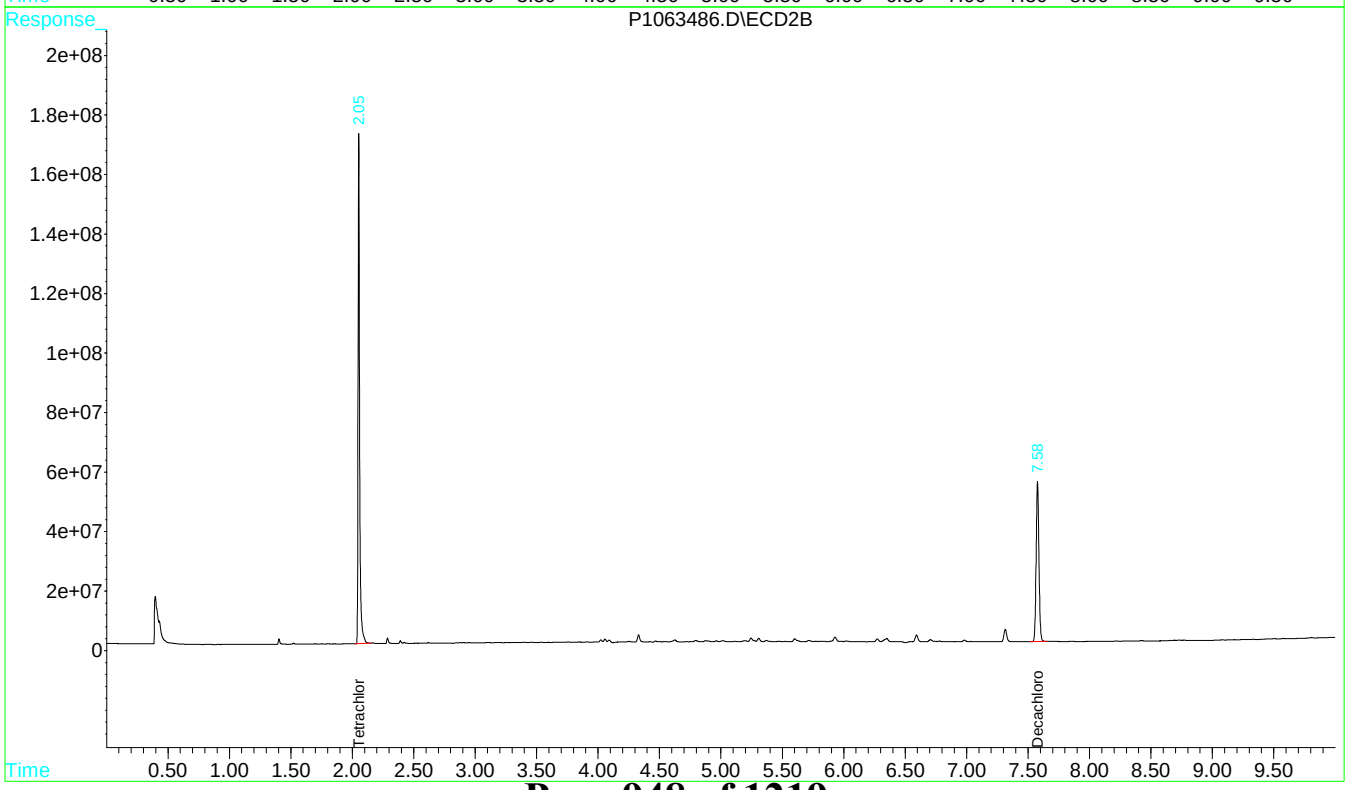
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063486.D\ECD1A.CH Vial: 39
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063486.D\ECD2B.CH
Acq On : 2-10-2020 9:54:24 PM Operator: SR
Sample : 20B0093-03 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:42 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

SB-3 (13-15)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-05	File ID:	P1063487.D
Sampled:	02/04/20 13:25	Prepared:	02/10/20 07:17	Analyzed:	02/10/20 22:08
Solids:	80.23	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BB00362	Sequence:	Y0B1025	Calibration:	YE90020
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0204	U
11104-28-2	Aroclor 1221	1	0.0204	U
11141-16-5	Aroclor 1232	1	0.0204	U
53469-21-9	Aroclor 1242	1	0.0204	U
12672-29-6	Aroclor 1248	1	0.0204	U
11097-69-1	Aroclor 1254	1	0.0204	U
11096-82-5	Aroclor 1260	1	0.0204	U
1336-36-3	Total PCBs	1	0.0204	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0817	0.0527	64.5	30 - 140	
Decachlorobiphenyl	0.0817	0.0535	65.5	30 - 140	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063487.D\ECD1A.CH Vial: 40
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063487.D\ECD2B.CH
Acq On : 2-10-2020 10:08:00 PM Operator: SR
Sample : 20B0093-05 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:42 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.63	2.05	844.8E6	1509.9E6	0.129	0.181 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		64.50%	90.50%
45) S Decachlorobiphen	8.77	7.58f	524.8E6	922.1E6	0.131	0.170 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		65.50%	85.00%
Target Compounds						

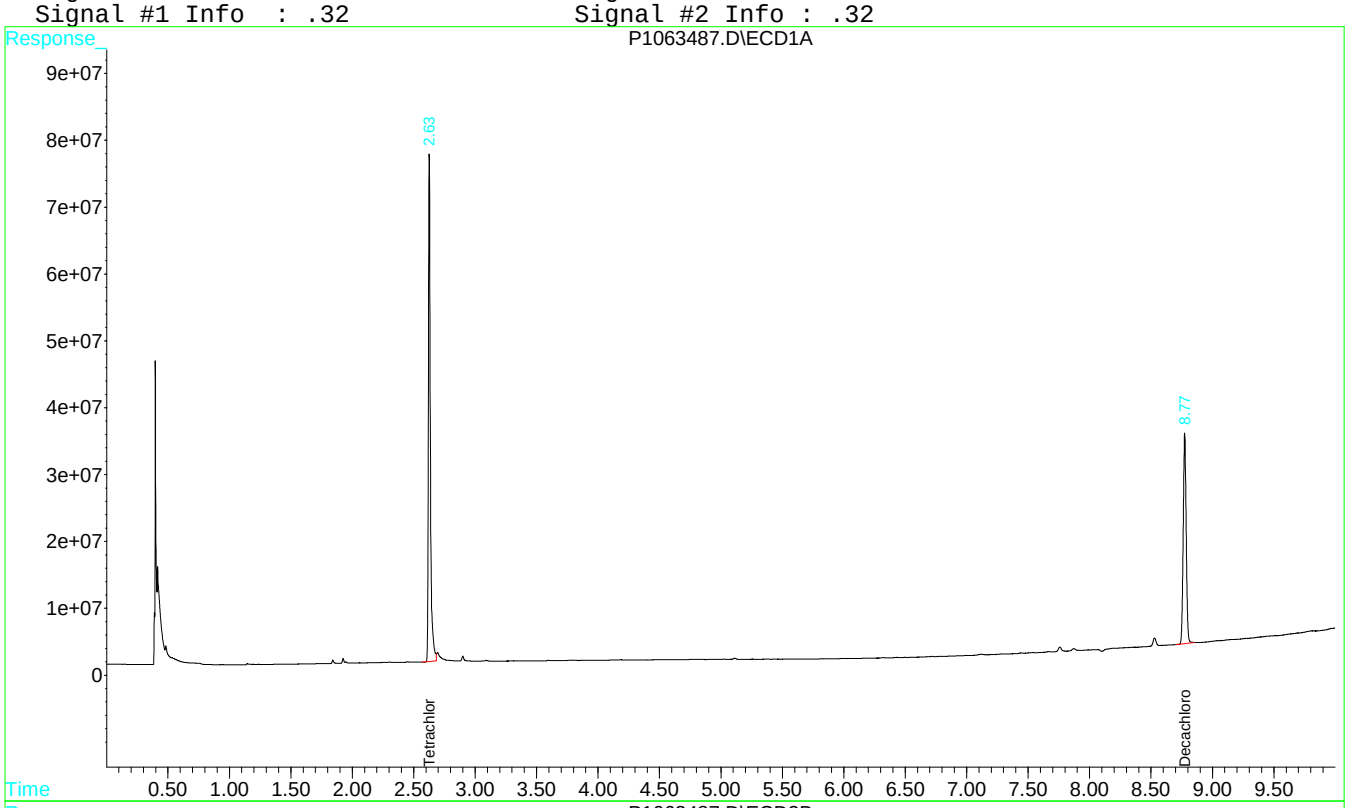
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063487.D P1051519.M Tue Feb 11 09:50:32 2020 Page 1

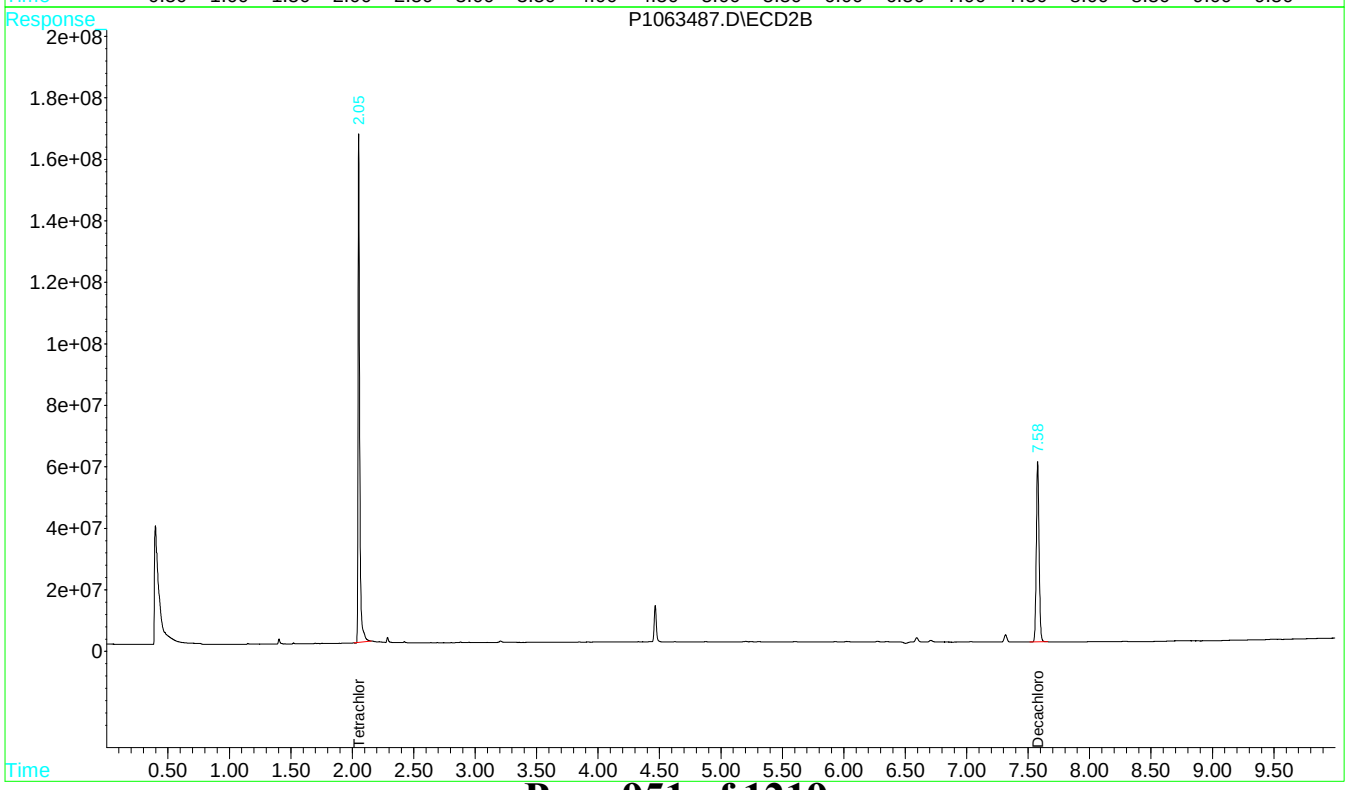
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063487.D\ECD1A.CH Vial: 40
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063487.D\ECD2B.CH
Acq On : 2-10-2020 10:08:00 PM Operator: SR
Sample : 20B0093-05 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:42 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-06	File ID:	P1063488.D
Sampled:	02/04/20 14:50	Prepared:	02/10/20 07:17	Analyzed:	02/10/20 22:21
Solids:	88.89	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BB00362	Sequence:	Y0B1025	Calibration:	YE90020
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0187	U
11104-28-2	Aroclor 1221	1	0.0187	U
11141-16-5	Aroclor 1232	1	0.0187	U
53469-21-9	Aroclor 1242	1	0.0187	U
12672-29-6	Aroclor 1248	1	0.0187	U
11097-69-1	Aroclor 1254	1	0.0187	U
11096-82-5	Aroclor 1260	1	0.0187	U
1336-36-3	Total PCBs	1	0.0187	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0747	0.0549	73.5	30 - 140	
Decachlorobiphenyl	0.0747	0.0534	71.5	30 - 140	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063488.D\ECD1A.CH Vial: 41
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063488.D\ECD2B.CH
Acq On : 2-10-2020 10:21:38 PM Operator: SR
Sample : 20B0093-06 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:43 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.63	2.05	959.8E6	1708.9E6	0.147	0.205 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		73.50%	102.50%
45) S Decachlorobiphen	8.77	7.58f	572.0E6	1040.8E6	0.143	0.192 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		71.50%	96.00%
Target Compounds						

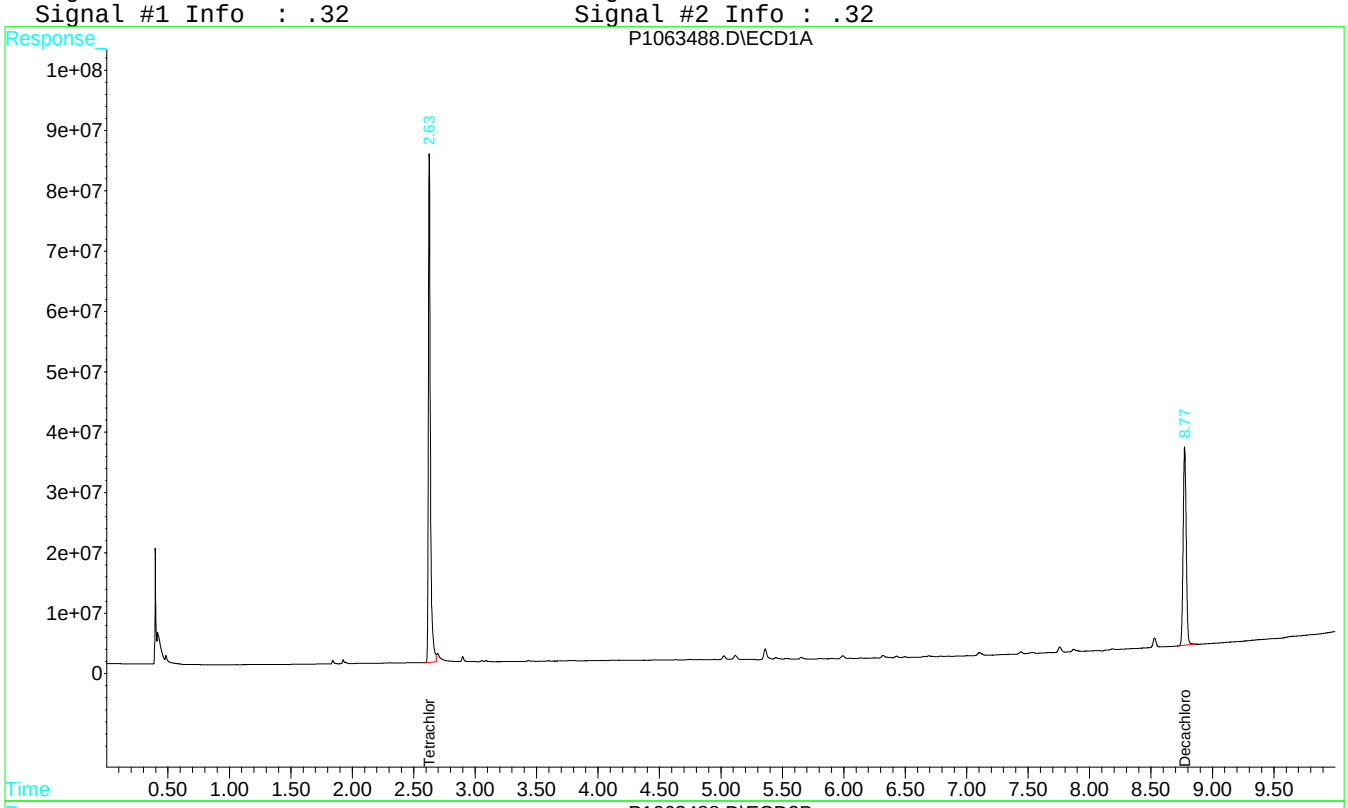
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063488.D P1051519.M Tue Feb 11 09:50:33 2020 Page 1

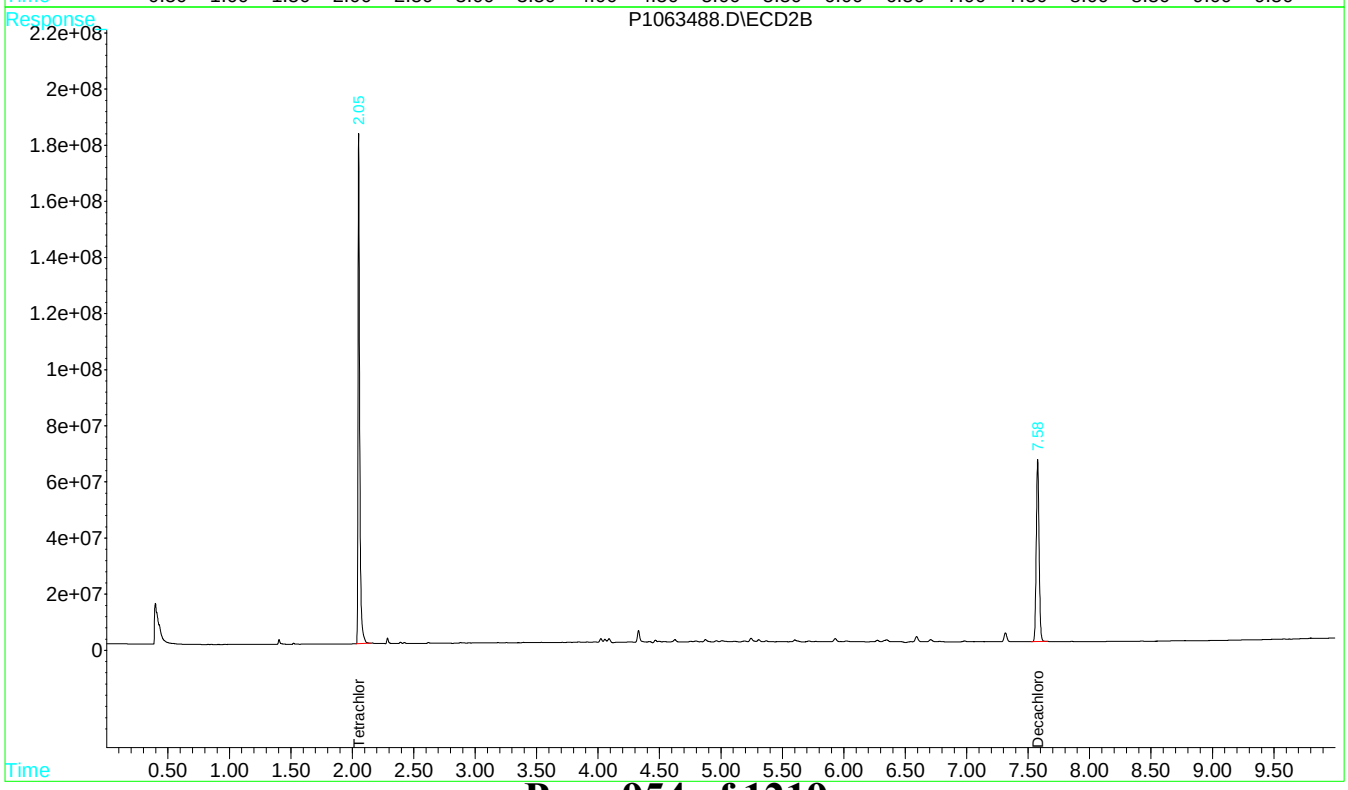
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063488.D\ECD1A.CH Vial: 41
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063488.D\ECD2B.CH
Acq On : 2-10-2020 10:21:38 PM Operator: SR
Sample : 20B0093-06 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:43 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

SB-4 (13-15)

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	20B0093-07	File ID:	P1063489.D
Sampled:	02/04/20 15:00	Prepared:	02/10/20 07:17	Analyzed:	02/10/20 22:35
Solids:	74.61	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BB00362	Sequence:	Y0B1025	Calibration:	YE90020
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0223	U
11104-28-2	Aroclor 1221	1	0.0223	U
11141-16-5	Aroclor 1232	1	0.0223	U
53469-21-9	Aroclor 1242	1	0.0223	U
12672-29-6	Aroclor 1248	1	0.0223	U
11097-69-1	Aroclor 1254	1	0.0223	U
11096-82-5	Aroclor 1260	1	0.0223	U
1336-36-3	Total PCBs	1	0.0223	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0891	0.0566	63.5	30 - 140	
Decachlorobiphenyl	0.0891	0.0432	48.5	30 - 140	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063489.D\ECD1A.CH Vial: 42
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063489.D\ECD2B.CH
Acq On : 2-10-2020 10:35:15 PM Operator: SR
Sample : 20B0093-07 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:43 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.63	2.05	831.2E6	1544.3E6	0.127	0.185 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		63.50%	92.50%
45) S Decachlorobiphen	8.77	7.58f	387.1E6	709.8E6	0.097	0.131 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		48.50%	65.50%
Target Compounds						

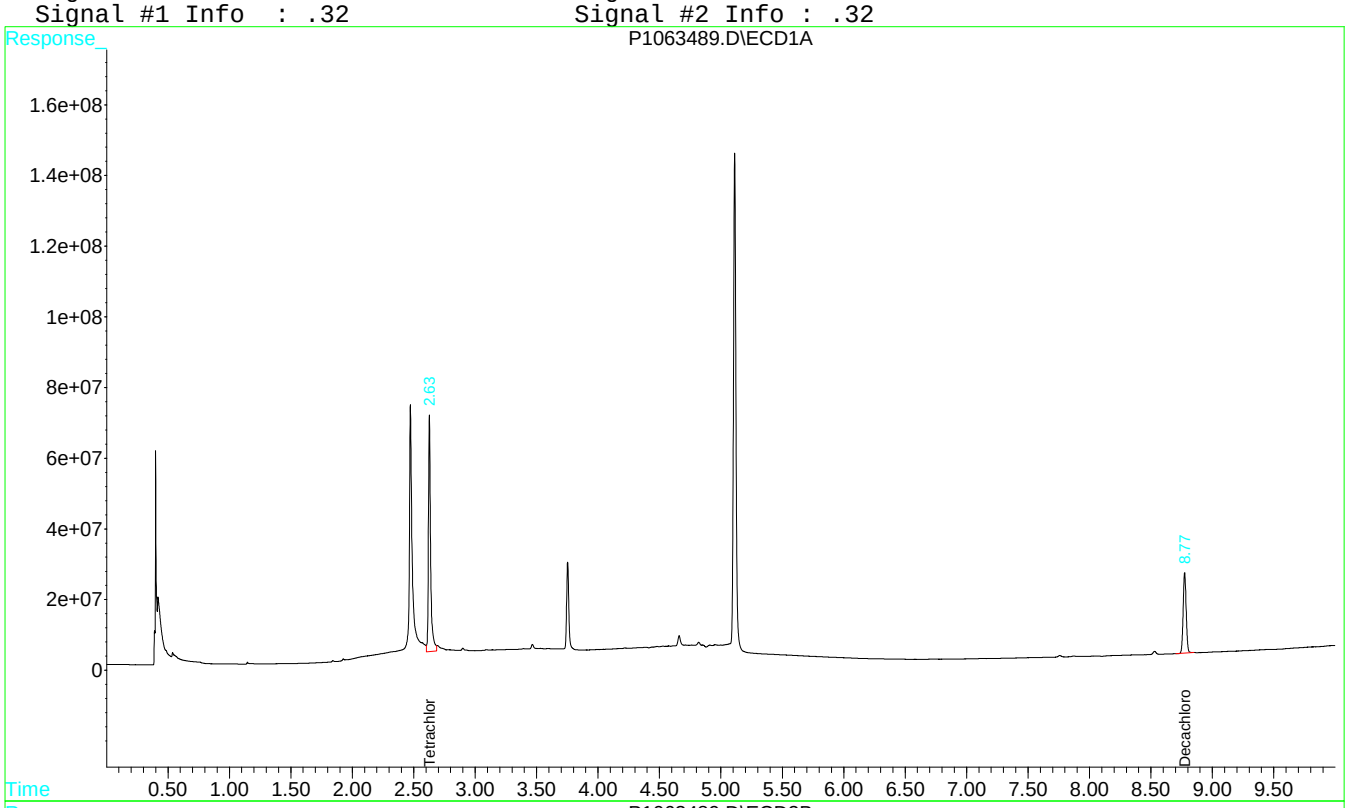
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063489.D P1051519.M Tue Feb 11 09:50:35 2020 Page 1

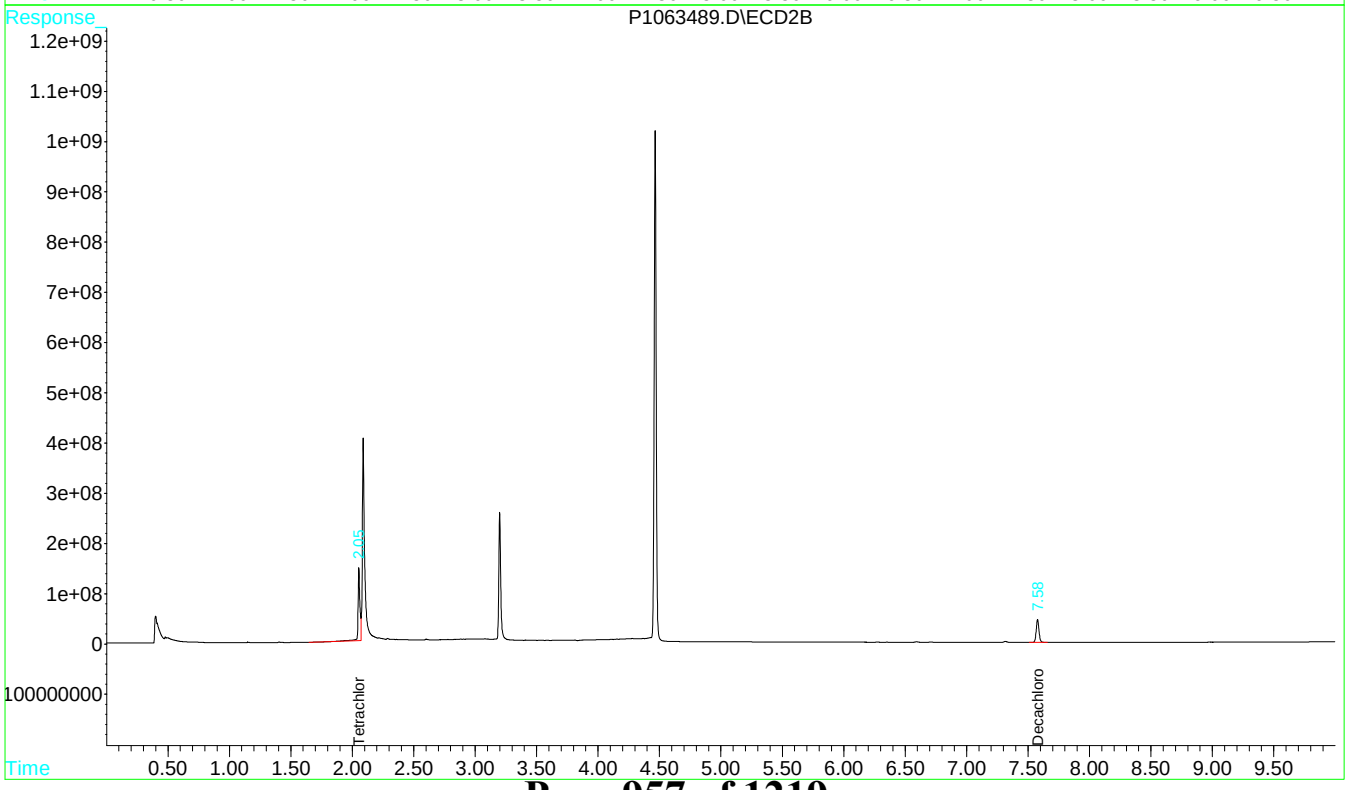
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063489.D\ECD1A.CH Vial: 42
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063489.D\ECD2B.CH
Acq On : 2-10-2020 10:35:15 PM Operator: SR
Sample : 20B0093-07 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:43 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID: P1063441.D

Sampled: 02/04/20 09:40 Prepared: 02/07/20 07:48 Analyzed: 02/07/20 23:51

Solids: 81.01 Preparation: EPA 3550C Initial/Final: 30.4 g / 10 mL

Batch: BB00283 Sequence: Y0B0739 Calibration: YE90020 Instrument: ECD#1

CAS NO.	COMPOUND	DILUTION	COL 1 (mg/kg dry)	COL 2 (mg/kg dry)	% Diff	Q
12674-11-2	Aroclor 1016	1	0.0203	0.0203		U
11104-28-2	Aroclor 1221	1	0.0203	0.0203		U
11141-16-5	Aroclor 1232	1	0.0203	0.0203		U
53469-21-9	Aroclor 1242	1	0.0203	0.0203		U
12672-29-6	Aroclor 1248	1	0.0203	0.0203		U
11097-69-1	Aroclor 1254	1	0.0203	0.0203		U
11096-82-5	Aroclor 1260	1	0.0448	0.0699	43.77	P
1336-36-3	Total PCBs	1	0.0448	0.0699	43.77	P

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0812	0.0581	71.5	30 - 140	
Decachlorobiphenyl	0.0812	0.0508	62.5	30 - 140	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID: P1063485.D

Sampled: 02/04/20 10:10 Prepared: 02/10/20 07:17 Analyzed: 02/10/20 21:40

Solids: 76.97 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BB00362 Sequence: Y0B1025 Calibration: YE90020 Instrument: ECD#1

CAS NO.	COMPOUND	DILUTION	COL 1 (mg/kg dry)	COL 2 (mg/kg dry)	% Diff	Q
12674-11-2	Aroclor 1016	1	0.0216	0.0216		U
11104-28-2	Aroclor 1221	1	0.0216	0.0216		U
11141-16-5	Aroclor 1232	1	0.0216	0.0216		U
53469-21-9	Aroclor 1242	1	0.0216	0.0216		U
12672-29-6	Aroclor 1248	1	0.0216	0.0216		U
11097-69-1	Aroclor 1254	1	0.0216	0.0216		U
11096-82-5	Aroclor 1260	1	0.0216	0.0216		U
1336-36-3	Total PCBs	1	0.0216	0.0216		U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0863	0.0604	70.0	30 - 140	
Decachlorobiphenyl	0.0863	0.0574	66.5	30 - 140	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID: P1063486.D

Sampled: 02/04/20 12:45 Prepared: 02/10/20 07:17 Analyzed: 02/10/20 21:54

Solids: 87.50 Preparation: EPA 3550C Initial/Final: 30.6 g / 10 mL

Batch: BB00362 Sequence: Y0B1025 Calibration: YE90020 Instrument: ECD#1

CAS NO.	COMPOUND	DILUTION	COL 1 (mg/kg dry)	COL 2 (mg/kg dry)	% Diff	Q
12674-11-2	Aroclor 1016	1	0.0187	0.0187		U
11104-28-2	Aroclor 1221	1	0.0187	0.0187		U
11141-16-5	Aroclor 1232	1	0.0187	0.0187		U
53469-21-9	Aroclor 1242	1	0.0187	0.0187		U
12672-29-6	Aroclor 1248	1	0.0187	0.0187		U
11097-69-1	Aroclor 1254	1	0.0187	0.0187		U
11096-82-5	Aroclor 1260	1	0.0187	0.0187		U
1336-36-3	Total PCBs	1	0.0187	0.0187		U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0747	0.0482	64.5	30 - 140	
Decachlorobiphenyl	0.0747	0.0459	61.5	30 - 140	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-3 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-05 File ID: P1063487.D

Sampled: 02/04/20 13:25 Prepared: 02/10/20 07:17 Analyzed: 02/10/20 22:08

Solids: 80.23 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BB00362 Sequence: Y0B1025 Calibration: YE90020 Instrument: ECD#1

CAS NO.	COMPOUND	DILUTION	COL 1 (mg/kg dry)	COL 2 (mg/kg dry)	% Diff	Q
12674-11-2	Aroclor 1016	1	0.0204	0.0204		U
11104-28-2	Aroclor 1221	1	0.0204	0.0204		U
11141-16-5	Aroclor 1232	1	0.0204	0.0204		U
53469-21-9	Aroclor 1242	1	0.0204	0.0204		U
12672-29-6	Aroclor 1248	1	0.0204	0.0204		U
11097-69-1	Aroclor 1254	1	0.0204	0.0204		U
11096-82-5	Aroclor 1260	1	0.0204	0.0204		U
1336-36-3	Total PCBs	1	0.0204	0.0204		U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0817	0.0527	64.5	30 - 140	
Decachlorobiphenyl	0.0817	0.0535	65.5	30 - 140	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-06 File ID: P1063488.D

Sampled: 02/04/20 14:50 Prepared: 02/10/20 07:17 Analyzed: 02/10/20 22:21

Solids: 88.89 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BB00362 Sequence: Y0B1025 Calibration: YE90020 Instrument: ECD#1

CAS NO.	COMPOUND	DILUTION	COL 1 (mg/kg dry)	COL 2 (mg/kg dry)	% Diff	Q
12674-11-2	Aroclor 1016	1	0.0187	0.0187		U
11104-28-2	Aroclor 1221	1	0.0187	0.0187		U
11141-16-5	Aroclor 1232	1	0.0187	0.0187		U
53469-21-9	Aroclor 1242	1	0.0187	0.0187		U
12672-29-6	Aroclor 1248	1	0.0187	0.0187		U
11097-69-1	Aroclor 1254	1	0.0187	0.0187		U
11096-82-5	Aroclor 1260	1	0.0187	0.0187		U
1336-36-3	Total PCBs	1	0.0187	0.0187		U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0747	0.0549	73.5	30 - 140	
Decachlorobiphenyl	0.0747	0.0534	71.5	30 - 140	

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID: P1063489.D

Sampled: 02/04/20 15:00 Prepared: 02/10/20 07:17 Analyzed: 02/10/20 22:35

Solids: 74.61 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BB00362 Sequence: Y0B1025 Calibration: YE90020 Instrument: ECD#1

CAS NO.	COMPOUND	DILUTION	COL 1 (mg/kg dry)	COL 2 (mg/kg dry)	% Diff	Q
12674-11-2	Aroclor 1016	1	0.0223	0.0223		U
11104-28-2	Aroclor 1221	1	0.0223	0.0223		U
11141-16-5	Aroclor 1232	1	0.0223	0.0223		U
53469-21-9	Aroclor 1242	1	0.0223	0.0223		U
12672-29-6	Aroclor 1248	1	0.0223	0.0223		U
11097-69-1	Aroclor 1254	1	0.0223	0.0223		U
11096-82-5	Aroclor 1260	1	0.0223	0.0223		U
1336-36-3	Total PCBs	1	0.0223	0.0223		U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0891	0.0566	63.5	30 - 140	
Decachlorobiphenyl	0.0891	0.0432	48.5	30 - 140	

* Values outside of QC limits

FORM VI

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory: York Analytical Laboratories, Inc.

Client: Roux Associates

Calibration: YE90020

SDG: 20B0093

Project: 3475.00014000 Lafayette

Instrument: ECD#1

Calibration Date: 05/16/19 15:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Aroclor 1016	0.05	2.079818E+08	0.2	1.860268E+08	0.5	1.475581E+08	1	1.5226E+08	2	1.4795E+08	3	1.483333E+08
Aroclor 1016 (1)	0.05	1.669089E+08	0.2	1.491076E+08	0.5	1.098185E+08	1	1.116E+08	2	1.0645E+08	3	1.071E+08
Aroclor 1016 (1) [2C]	0.05	1.842025E+08	0.2	1.726081E+08	0.5	1.287887E+08	1	1.327E+08	2	1.267E+08	3	1.243333E+08
Aroclor 1016 (2)	0.05	2.300504E+08	0.2	1.852321E+08	0.5	1.534474E+08	1	1.565E+08	2	1.504E+08	3	1.510333E+08
Aroclor 1016 (2) [2C]	0.05	2.454672E+08	0.2	2.295241E+08	0.5	1.745454E+08	1	1.82E+08	2	1.763E+08	3	1.730667E+08
Aroclor 1016 (3)	0.05	2.673128E+08	0.2	2.365338E+08	0.5	1.818013E+08	1	1.885E+08	2	1.838E+08	3	1.827333E+08
Aroclor 1016 (3) [2C]	0.05	2.96826E+08	0.2	2.37975E+08	0.5	2.184E+08	1	2.474E+08	2	2.4245E+08	3	2.417E+08
Aroclor 1016 (4)	0.05	2.036846E+08	0.2	1.971298E+08	0.5	1.472085E+08	1	1.538E+08	2	1.522E+08	3	1.531333E+08
Aroclor 1016 (4) [2C]	0.05	2.70543E+08	0.2	2.386897E+08	0.5	1.779452E+08	1	1.887E+08	2	1.8595E+08	3	1.844667E+08
Aroclor 1016 (5)	0.05	1.719519E+08	0.2	1.621311E+08	0.5	1.455148E+08	1	1.509E+08	2	1.469E+08	3	1.476667E+08
Aroclor 1016 (5) [2C]	0.05	2.359602E+08	0.2	2.171887E+08	0.5	1.794013E+08	1	1.893E+08	2	1.8695E+08	3	1.868667E+08
Aroclor 1016 [2C]	0.05	2.465998E+08	0.2	2.191971E+08	0.5	1.758161E+08	1	1.8802E+08	2	1.8367E+08	3	1.820867E+08
Aroclor 1260	0.05	5.455218E+08	0.2	4.648856E+08	0.5	3.574204E+08	1	3.7824E+08	2	3.8147E+08	3	3.800333E+08
Aroclor 1260 (1)	0.05	4.5493E+08	0.2	3.853752E+08	0.5	2.842E+08	1	2.996E+08	2	3.0215E+08	3	3.02E+08
Aroclor 1260 (1) [2C]	0.05	5.214942E+08	0.2	4.672252E+08	0.5	3.484E+08	1	3.688E+08	2	3.654E+08	3	3.638333E+08
Aroclor 1260 (2)	0.05	6.760566E+08	0.2	5.775E+08	0.5	4.428E+08	1	4.644E+08	2	4.604E+08	3	4.563333E+08
Aroclor 1260 (2) [2C]	0.05	6.092212E+08	0.2	5.4E+08	0.5	4.036E+08	1	4.322E+08	2	4.3E+08	3	4.277667E+08
Aroclor 1260 (3)	0.05	6.090482E+08	0.2	5.145E+08	0.5	4.056E+08	1	4.288E+08	2	4.346E+08	3	4.348333E+08
Aroclor 1260 (3) [2C]	0.05	6.715937E+08	0.2	5.87E+08	0.5	4.838E+08	1	5.277E+08	2	5.3215E+08	3	5.312333E+08
Aroclor 1260 (4)	0.05	2.948902E+08	0.2	2.480525E+08	0.5	1.979017E+08	1	2.084E+08	2	2.0755E+08	3	2.068667E+08
Aroclor 1260 (4) [2C]	0.05	3.530028E+08	0.2	3.03487E+08	0.5	2.5E+08	1	2.664E+08	2	2.691E+08	3	2.671667E+08
Aroclor 1260 (5)	0.05	6.926848E+08	0.2	5.99E+08	0.5	4.566E+08	1	4.9E+08	2	5.0265E+08	3	5.001333E+08
Aroclor 1260 (5) [2C]	0.05	8.100756E+08	0.2	7.48E+08	0.5	5.716E+08	1	6.25E+08	2	6.3585E+08	3	6.313667E+08
Aroclor 1260 [2C]	0.05	5.930776E+08	0.2	5.291425E+08	0.5	4.1148E+08	1	4.4402E+08	2	4.465E+08	3	4.442733E+08
Decachlorobiphenyl	0.04	4.2475E+09	0.08	3.81625E+09	0.12	3.825E+09	0.16	3.95625E+09	0.2	4.188E+09	0.24	8.2375E+08
Decachlorobiphenyl [2C]	0.04	5.6675E+09	0.08	5.18375E+09	0.12	5.221667E+09	0.16	5.39375E+09	0.2	5.6745E+09	0.24	1.093333E+09
Tetrachloro-m-xylene	0.04	6.625E+09	0.08	6.48E+09	0.12	6.5325E+09	0.16	6.528125E+09	0.2	6.555E+09	0.24	1.342083E+09
Tetrachloro-m-xylene [2C]	0.04	8.3825E+09	0.08	8.14625E+09	0.12	8.249167E+09	0.16	8.3775E+09	0.2	8.524E+09	0.24	1.62875E+09

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Calibration: YE90020
Instrument: ECD#1
Calibration Date: 05/16/19 15:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor 1016	1.650183E+08	15.6261	4.321667	9.372422E-02			20	
Aroclor 1016 (1)	1.251642E+08	20.87056	2.99	2.138931E-02			20	*
Aroclor 1016 (1) [2C]	1.448888E+08	18.1954	2.38	8.336674E-03			20	
Aroclor 1016 (2)	1.711105E+08	18.53775	3.51	9.988165E-03			20	
Aroclor 1016 (2) [2C]	1.968172E+08	16.28601	2.81	1.298856E-02			20	
Aroclor 1016 (3)	2.067802E+08	17.58878	3.88	1.881332E-02			20	
Aroclor 1016 (3) [2C]	2.474585E+08	10.58383	3.1	1.759607E-02			20	
Aroclor 1016 (4)	1.678594E+08	15.13312	3.981667	0.1013485			20	
Aroclor 1016 (4) [2C]	2.077158E+08	18.22925	3.21	1.557442E-02			20	
Aroclor 1016 (5)	1.541774E+08	6.866172	4.321667	9.372422E-02			20	
Aroclor 1016 (5) [2C]	1.992778E+08	11.14665	3.49	1.920615E-02			20	
Aroclor 1016 [2C]	1.992316E+08	13.9324	3.49	1.920615E-02			20	
Aroclor 1260	4.179285E+08	17.41513	7.11	1.346092E-02			20	
Aroclor 1260 (1)	3.380425E+08	20.00556	5.66	1.343933E-02			20	*
Aroclor 1260 (1) [2C]	4.058588E+08	17.49734	4.66	1.632331E-02			20	
Aroclor 1260 (2)	5.12915E+08	18.29248	6	0			20	
Aroclor 1260 (2) [2C]	4.73798E+08	17.25474	4.91	1.549219E-02			20	
Aroclor 1260 (3)	4.712303E+08	16.33889	6.323333	8.020835E-02			20	
Aroclor 1260 (3) [2C]	5.555795E+08	11.80776	5.28	1.458778E-02			20	
Aroclor 1260 (4)	2.272768E+08	16.49607	6.436667	8.233607E-02			20	
Aroclor 1260 (4) [2C]	2.848594E+08	13.23588	5.35	0.0142798			20	
Aroclor 1260 (5)	5.40178E+08	16.39857	7.11	1.346092E-02			20	
Aroclor 1260 (5) [2C]	6.703154E+08	13.3552	5.97	0.0235798			20	
Aroclor 1260 [2C]	4.780822E+08	14.36053	5.97	0.0235798			20	
Decachlorobiphenyl	3.476125E+09	37.73896	8.781666	4.480292E-02			20	*
Decachlorobiphenyl [2C]	4.70575E+09	37.87259	7.63	1.965684E-02			20	*
Tetrachloro-m-xylene	5.677118E+09	37.41776	2.63	7.544215E-03			20	*
Tetrachloro-m-xylene [2C]	7.218028E+09	37.97709	2.07	5.801038E-03			20	*

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049336.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049336.D\ECD2B.CH
Acq On : 5-15-2019 4:45:39 PM Operator: SR
Sample : SEQ-CAL1 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:49 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.07	265.0E6	335.3E6	0.039	0.048
	Spiked Amount 0.200	Range 30 - 150		Recovery =		19.50%#	24.00%#
45) S	Decachlorobiphen	8.79	7.63	169.9E6	226.7E6	0.056	0.057
	Spiked Amount 0.200	Range 30 - 150		Recovery =		28.00%#	28.50%#
	Target Compounds						
5) T	1016 1	2.99	2.38	8345444	9210124	0.054m	0.079m#
6) T	1016 2	3.51	2.81	11502521	12273360	0.039m	0.028m#
7) T	1016 3	3.88	3.10	13365635	14841297	0.114m	0.102m
8) T	1016 4	3.99	3.21	10184233	13527150	0.083m	0.114m#
9) T	1016 5	4.33	3.49	8597595	11798008	0.060m	0.070m
30) T	1260 1	5.66	4.66	22746496	26074713	0.058	0.088m#
31) T	1260 2	6.00	4.91	33802829	30461064	0.091m	0.087
32) T	1260 3	6.33	5.28	30452406	33579690	0.156m	0.078m#
33) T	1260 4	6.44	5.35	14744507	17650138	0.035m	0.035m
34) T	1260 5	7.11	5.97	34634235	40503785	0.137	0.106m

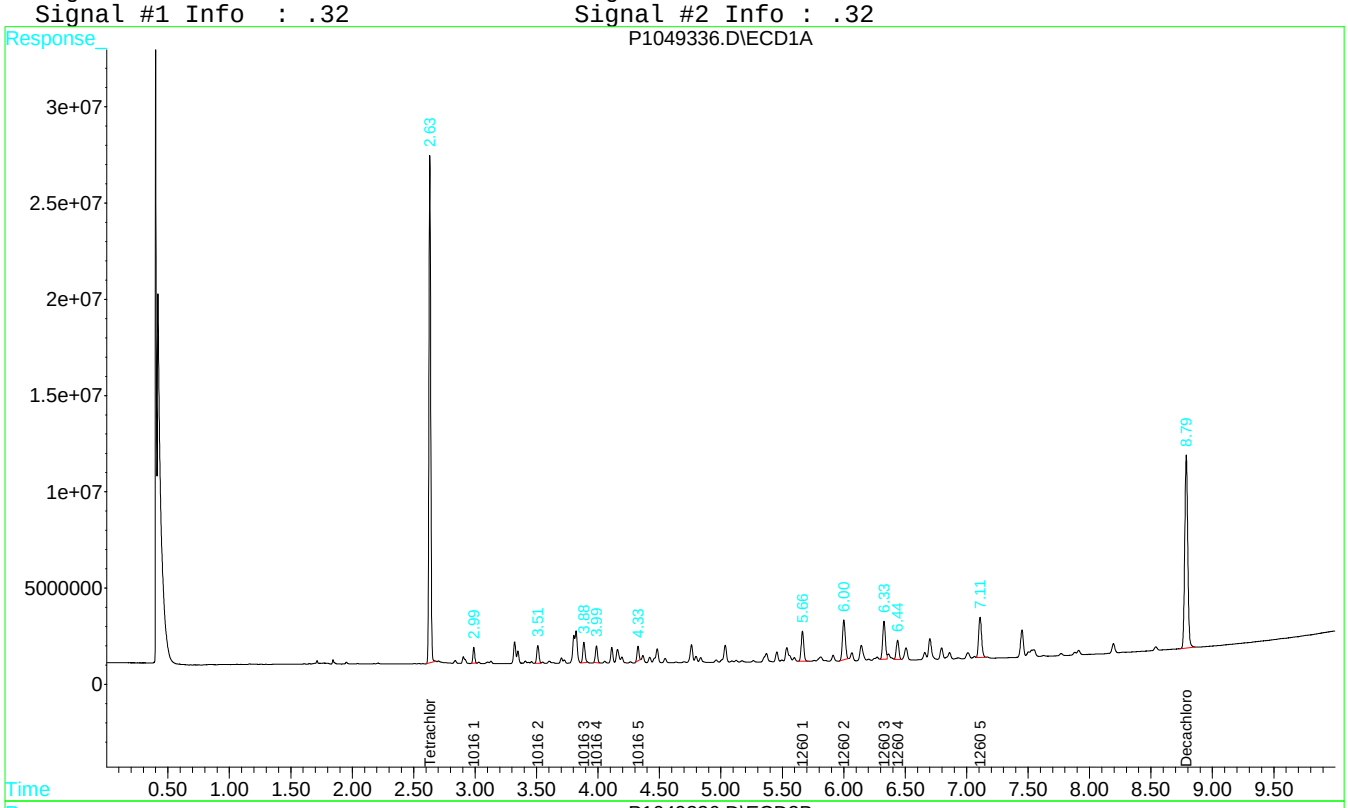
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1049336.D P1051519.M Thu May 16 13:45:42 2019 Page 1

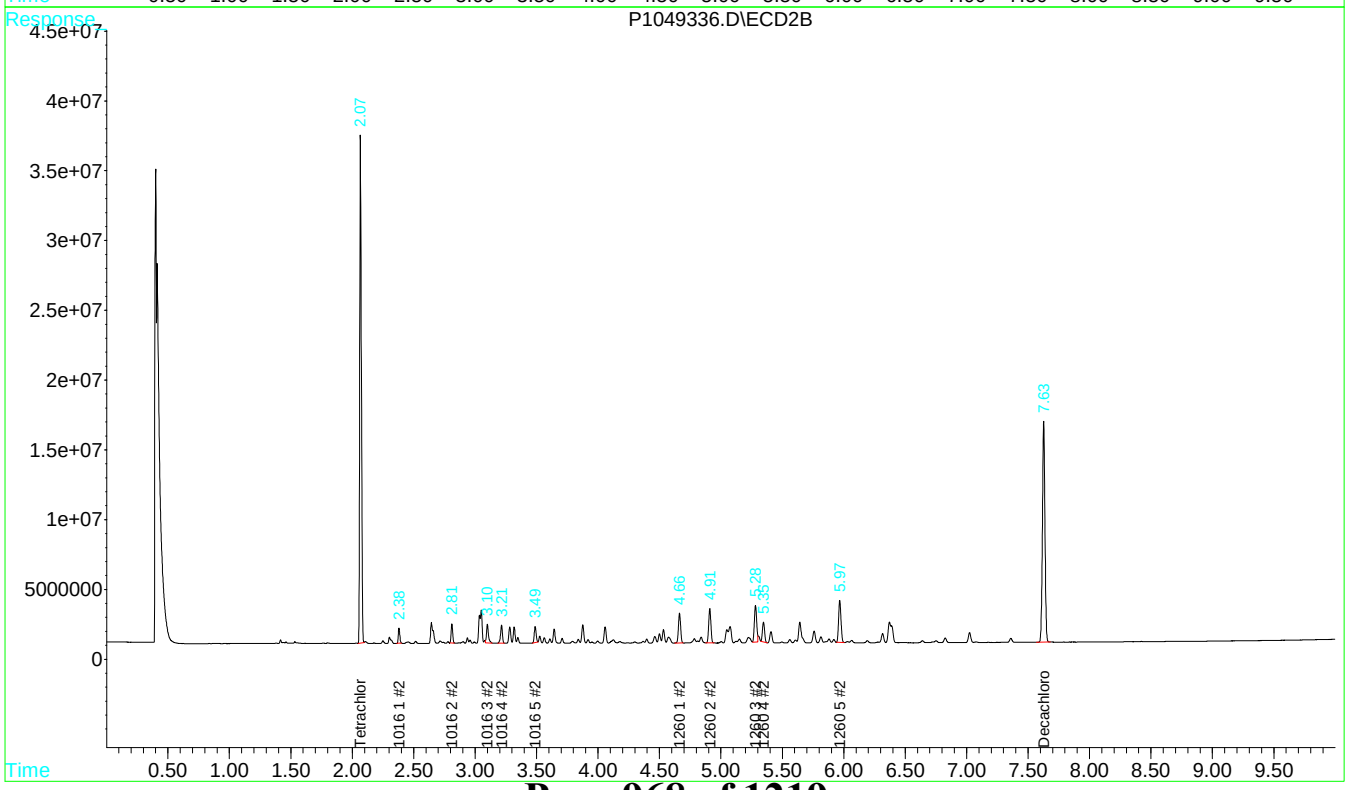
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049336.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049336.D\ECD2B.CH
Acq On : 5-15-2019 4:45:39 PM Operator: SR
Sample : SEQ-CAL1 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:49 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049337.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049337.D\ECD2B.CH
Acq On : 5-15-2019 4:59:07 PM Operator: SR
Sample : SEQ-CAL2 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:49 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.07	518.4E6	651.7E6	0.077	0.094
	Spiked Amount 0.200	Range 30 - 150		Recovery =		38.50%	47.00%
45) S	Decachlorobiphen	8.78	7.63	305.3E6	414.7E6	0.101	0.104
	Spiked Amount 0.200	Range 30 - 150		Recovery =		50.50%	52.00%
	Target Compounds						
5) T	1016 1	2.99	2.38	29821510	34521624	0.193m	0.297m#
6) T	1016 2	3.51	2.81	37046420	45904822	0.125	0.104m
7) T	1016 3	3.88	3.10	47306752	47594997	0.405m	0.326m
8) T	1016 4	3.98	3.21	39425959	47737935	0.323m	0.403m
9) T	1016 5	4.32	3.49	32426219	43437742	0.228m	0.258m
30) T	1260 1	5.66	4.66	77075043	93445030	0.195m	0.316m#
31) T	1260 2	6.00	4.91	115.5E6	108.0E6	0.311m	0.307m
32) T	1260 3	6.33	5.28	102.9E6	117.4E6	0.526m	0.272m#
33) T	1260 4	6.44	5.35	49610504	60697392	0.117m	0.122m
34) T	1260 5	7.11	5.97	119.8E6	149.6E6	0.475m	0.393m

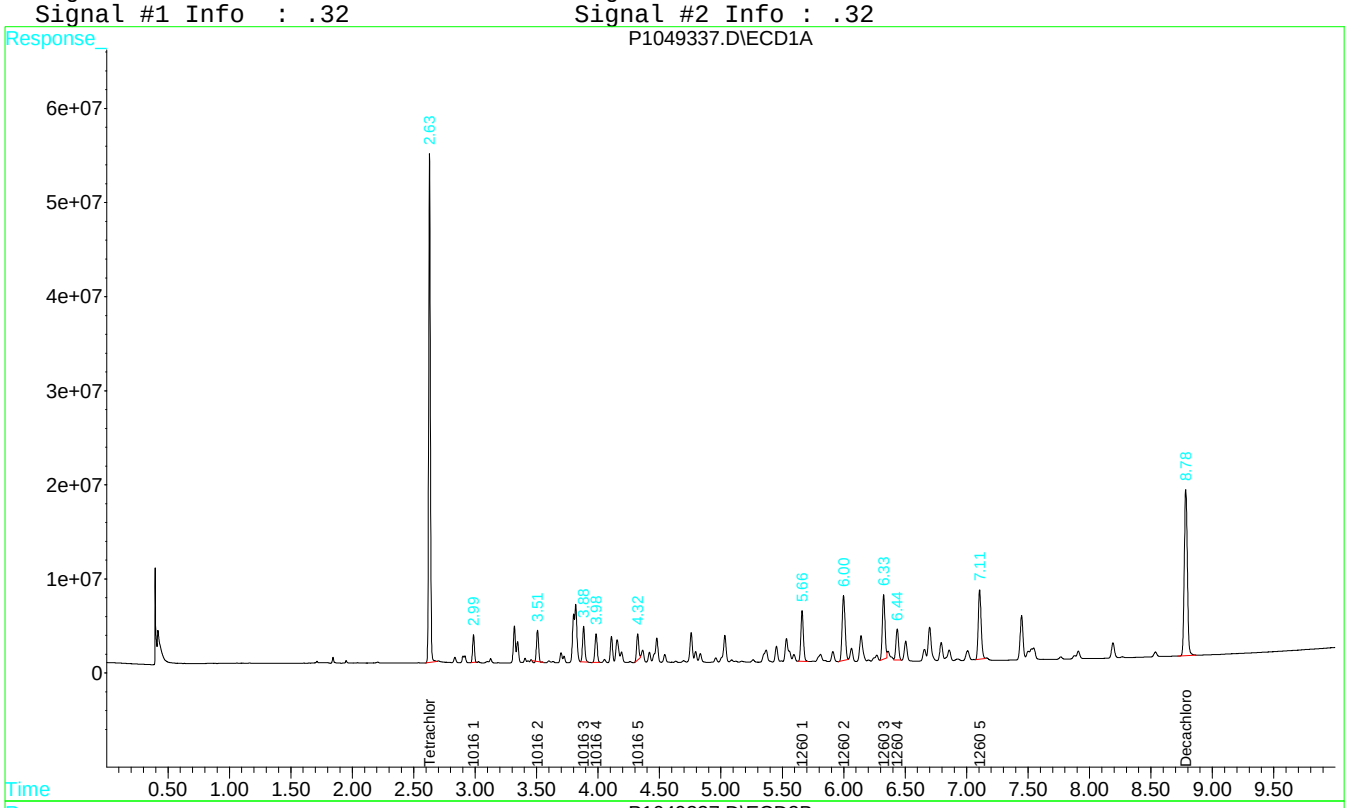
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1049337.D P1051519.M Thu May 16 13:45:43 2019 Page 1

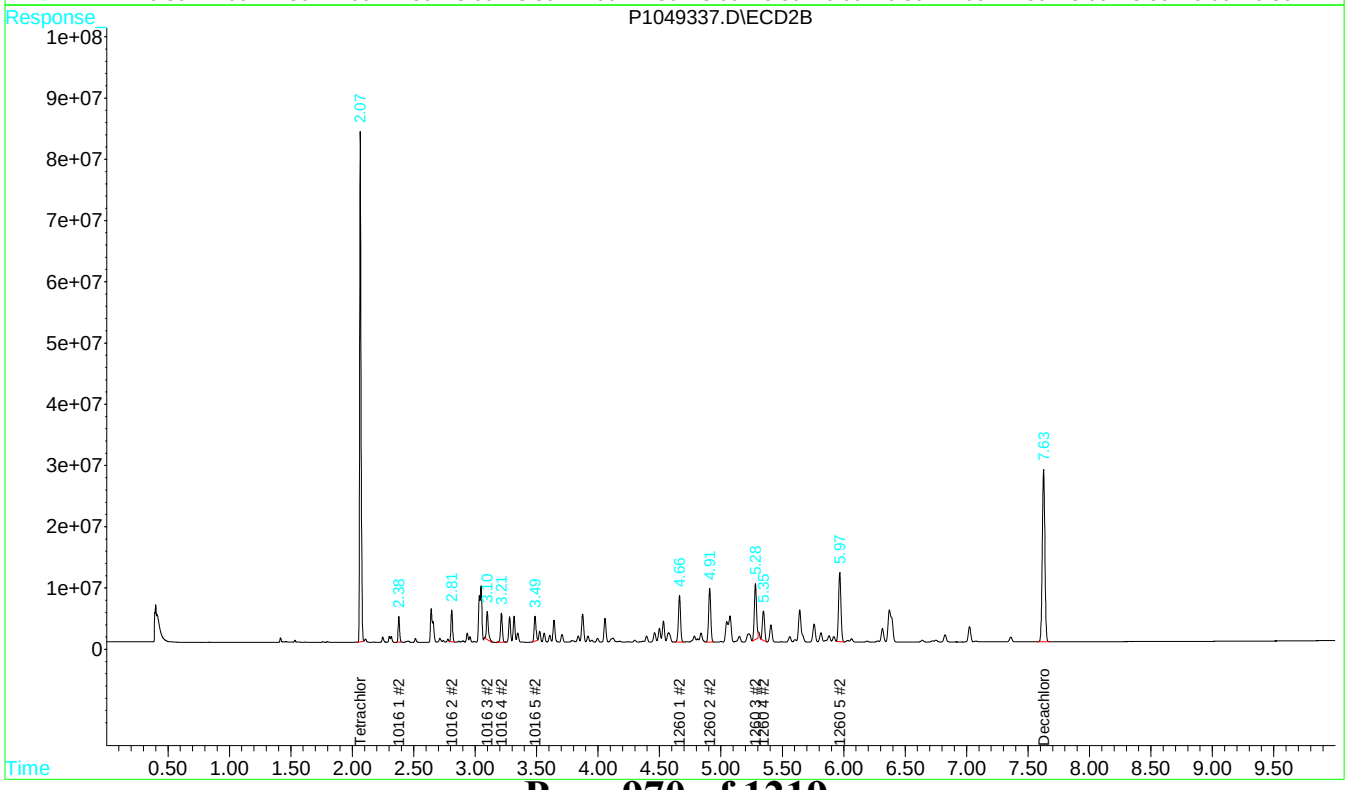
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049337.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049337.D\ECD2B.CH
Acq On : 5-15-2019 4:59:07 PM Operator: SR
Sample : SEQ-CAL2 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:49 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049338.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049338.D\ECD2B.CH
Acq On : 5-15-2019 5:12:36 PM Operator: SR
Sample : SEQ-CAL3 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:29 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.07	783.9E6	989.9E6	0.117	0.142
	Spiked Amount 0.200	Range 30 - 150		Recovery =		58.50%	71.00%
45) S	Decachlorobiphen	8.78	7.63	459.0E6	626.6E6	0.153	0.158
	Spiked Amount 0.200	Range 30 - 150		Recovery =		76.50%	79.00%
	Target Compounds						
5) T	1016 1	2.99	2.38	54909272	64394344	0.355	0.555 #
6) T	1016 2	3.51	2.81	76723688	87272705	0.258	0.198
7) T	1016 3	3.88	3.10	90900636	109.2E6	0.778	0.748m
8) T	1016 4	3.98	3.21	73604261	88972610	0.603	0.752
9) T	1016 5	4.32	3.49	72757408	89700655	0.511	0.534
30) T	1260 1	5.66	4.66	142.1E6	174.2E6	0.359	0.588 #
31) T	1260 2	6.00	4.91	221.4E6	201.8E6	0.597	0.573
32) T	1260 3	6.32	5.28	202.8E6	241.9E6	1.036m	0.560m#
33) T	1260 4	6.44	5.35	98950849	125.0E6	0.234	0.251
34) T	1260 5	7.11	5.97	228.3E6	285.8E6	0.904m	0.751

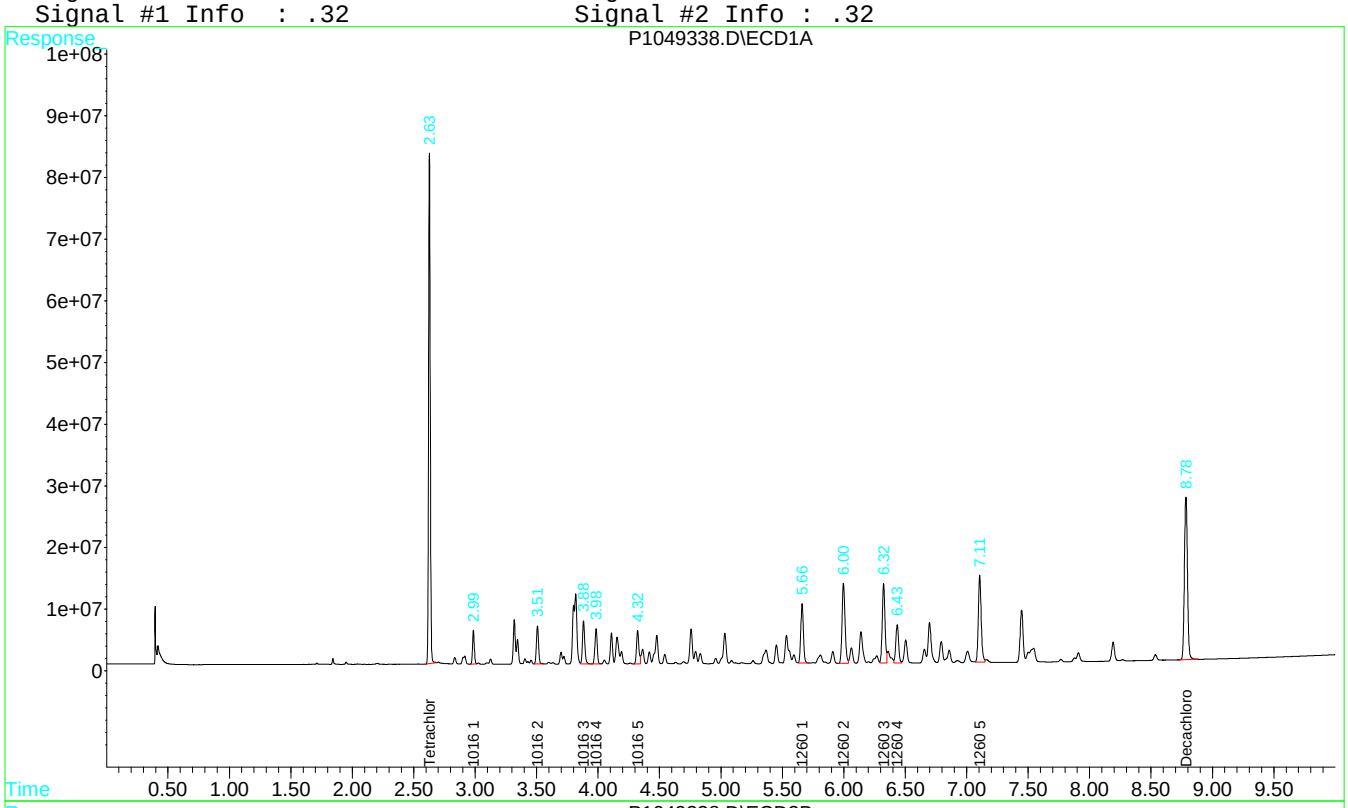
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1049338.D P1051519.M Thu May 16 13:45:45 2019 Page 1

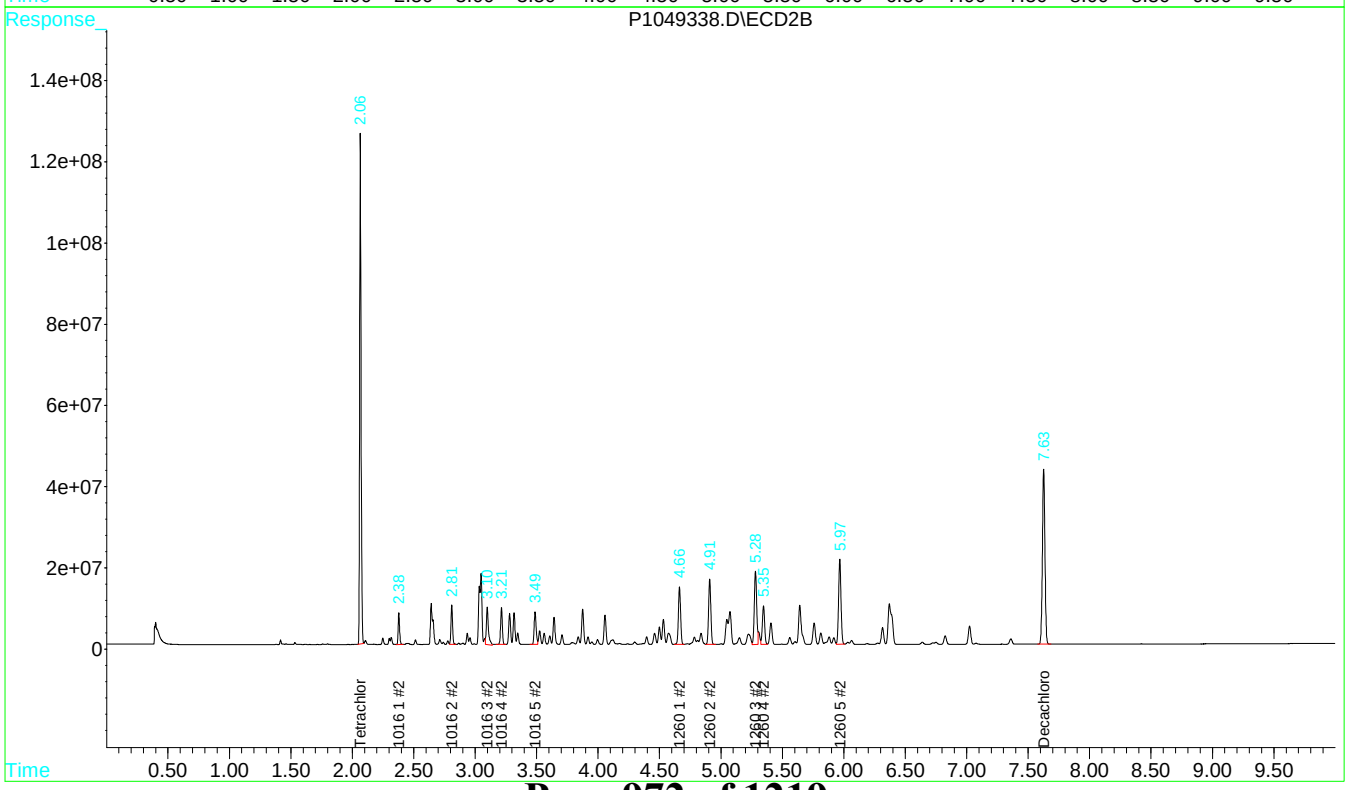
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049338.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049338.D\ECD2B.CH
Acq On : 5-15-2019 5:12:36 PM Operator: SR
Sample : SEQ-CAL3 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:29 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049339.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049339.D\ECD2B.CH
Acq On : 5-15-2019 5:26:12 PM Operator: SR
Sample : SEQ-CAL4 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:30 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	2.63	2.07	1044.5E6	1340.4E6	0.156	0.193	
	Spiked Amount 0.200	Range 30 - 150		Recovery =		78.00%	96.50%	
45)	S Decachlorobiphen	8.78	7.63	633.0E6	863.0E6	0.210	0.217	
	Spiked Amount 0.200	Range 30 - 150		Recovery =		105.00%	108.50%	
	Target Compounds							
5)	T 1016 1	2.99	2.38	111.6E6	132.7E6	0.721	1.143	#
6)	T 1016 2	3.51	2.81	156.5E6	182.0E6	0.527	0.413	
7)	T 1016 3	3.88	3.10	188.5E6	247.4E6	1.613	1.694	
8)	T 1016 4	3.98	3.21	153.8E6	188.7E6	1.260	1.594	#
9)	T 1016 5	4.32	3.49	150.9E6	189.3E6	1.060	1.126	
30)	T 1260 1	5.66	4.66	299.6E6	368.8E6	0.758	1.245	#
31)	T 1260 2	6.00	4.91	464.4E6	432.2E6	1.252	1.228	
32)	T 1260 3	6.32	5.28	428.8E6	527.7E6	2.191m	1.222m	#
33)	T 1260 4	6.44	5.35	208.4E6	266.4E6	0.492	0.535	
34)	T 1260 5	7.11	5.97	490.0E6	625.0E6	1.941m	1.643	

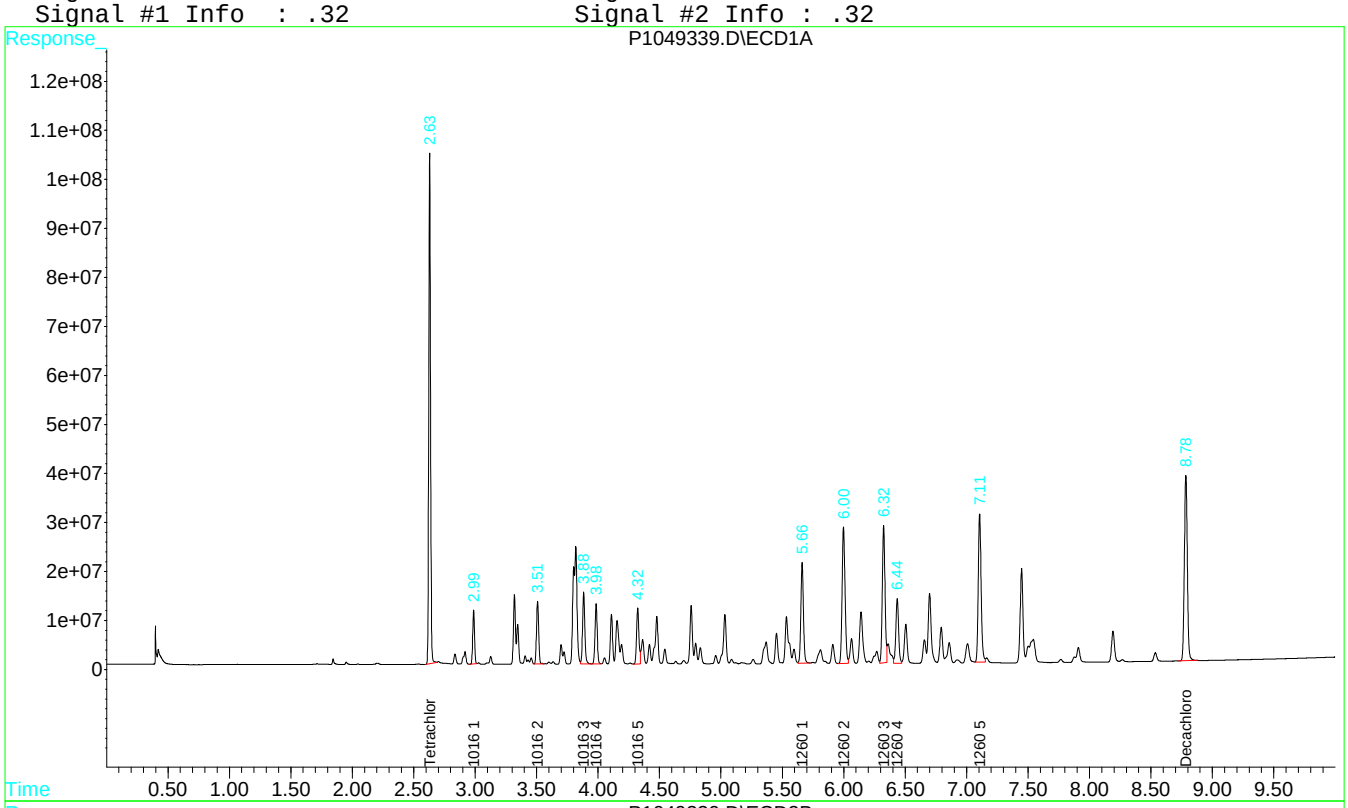
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1049339.D P1051519.M Thu May 16 13:45:47 2019 Page 1

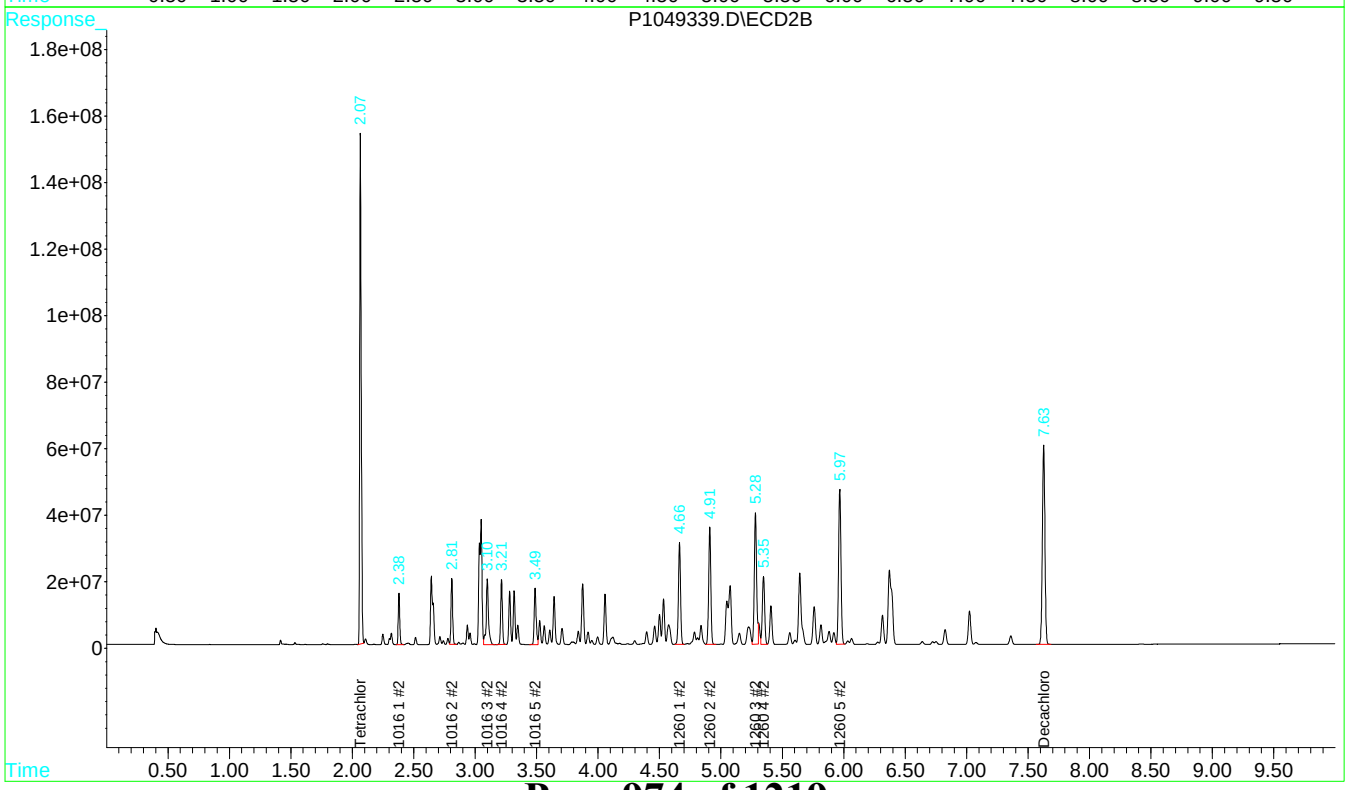
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049339.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049339.D\ECD2B.CH
Acq On : 5-15-2019 5:26:12 PM Operator: SR
Sample : SEQ-CAL4 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:30 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\051519A\P1049340.D\ECD1A.CH Vial: 6
Acq On : 5-15-2019 5:39:43 PM Operator: SR
Sample : SEQ-CAL5 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\051519A\P1049340.D\ECD2B.CH Vial: 6
Acq On : 5-15-2019 5:39:44 PM Operator: SR
Sample : SEQ-CAL5 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 16 12:31 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.07	1311.0E6	1704.8E6	0.195	0.245 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		97.50%	122.50%
45) S	Decachlorobiphen	8.78	7.63	837.6E6	1134.9E6	0.278	0.286
	Spiked Amount 0.200	Range 30 - 150		Recovery =		139.00%	143.00%
	Target Compounds						
5) T	1016 1	2.99	2.38	212.9E6	253.4E6	1.376	2.183 #
6) T	1016 2	3.51	2.81	300.8E6	352.6E6	1.013	0.799
7) T	1016 3	3.88	3.10	367.6E6	484.9E6	3.146	3.321
8) T	1016 4	3.98	3.21	304.4E6	371.9E6	2.495	3.142 #
9) T	1016 5	4.32	3.49	293.8E6	373.9E6	2.065	2.224
30) T	1260 1	5.66	4.66	604.3E6	730.8E6	1.529	2.468 #
31) T	1260 2	6.00	4.91	920.8E6	860.0E6	2.482	2.442
32) T	1260 3	6.32	5.28	869.2E6	1064.3E6	4.441m	2.464m#
33) T	1260 4	6.43	5.35	415.1E6	538.2E6	0.980	1.080
34) T	1260 5	7.11	5.97	1005.3E6	1271.7E6	3.982	3.343

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1049340.D P1051519.M Thu May 16 13:45:49 2019 Page 1

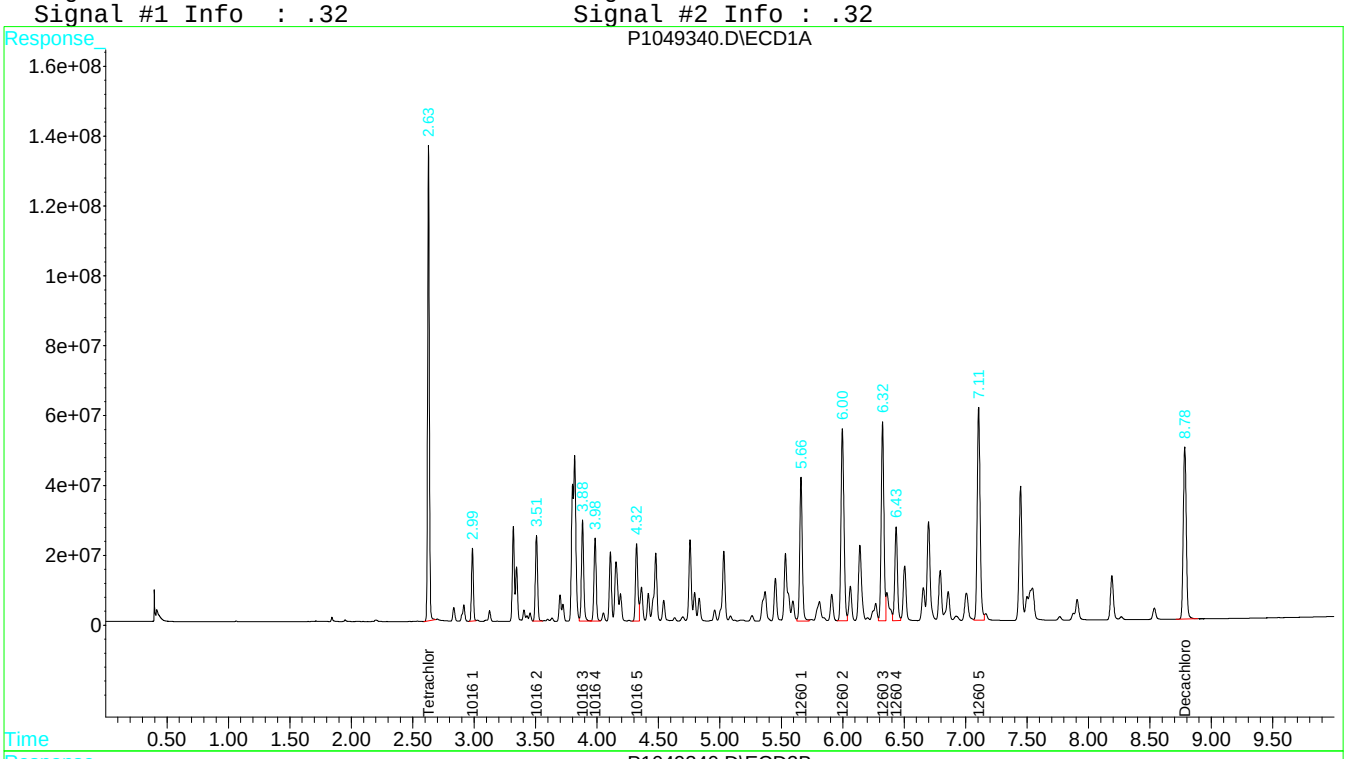
Quantitation Report

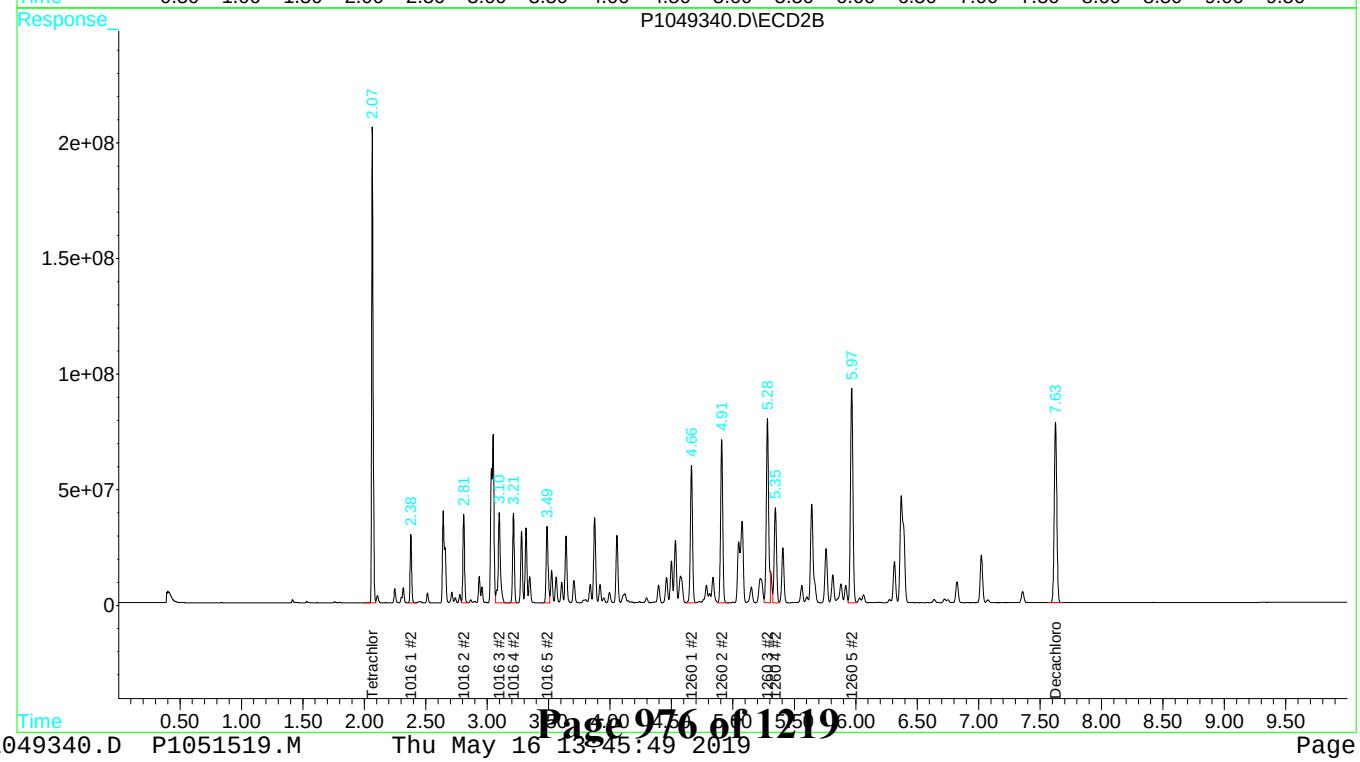
Data File : C:\HPCHEM\1\DATA\051519A\P1049340.D\ECD1A.CH Vial: 6
Acq On : 5-15-2019 5:39:43 PM Operator: SR
Sample : SEQ-CAL5 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\051519A\P1049340.D\ECD2B.CH Vial: 6
Acq On : 5-15-2019 5:39:44 PM Operator: SR
Sample : SEQ-CAL5 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 16 12:31 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049341.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049341.D\ECD2B.CH
Acq On : 5-15-2019 5:53:13 PM Operator: SR
Sample : SEQ-CAL6 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:32 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.07	322.1E6	390.9E6	0.048	0.056
	Spiked Amount 0.200	Range 30 - 150		Recovery =		24.00%#	28.00%#
45) S	Decachlorobiphen	8.78	7.63	197.7E6	262.4E6	0.066	0.066
	Spiked Amount 0.200	Range 30 - 150		Recovery =		33.00%	33.00%
	Target Compounds						
5) T	1016 1	2.99	2.38	321.3E6	373.0E6	2.076	3.215 #
6) T	1016 2	3.51	2.81	453.1E6	519.2E6	1.525	1.177
7) T	1016 3	3.88	3.10	548.2E6	725.1E6	4.692	4.966
8) T	1016 4	3.98	3.21	459.4E6	553.4E6	3.765	4.675
9) T	1016 5	4.32	3.49	443.0E6	560.6E6	3.114	3.335
30) T	1260 1	5.66	4.66	906.0E6	1091.5E6	2.292	3.685 #
31) T	1260 2	6.00	4.91	1369.0E6	1283.3E6	3.690	3.645
32) T	1260 3	6.32	5.28	1304.5E6	1593.7E6	6.665	3.690m#
33) T	1260 4	6.43	5.35	620.6E6	801.5E6	1.465	1.608
34) T	1260 5	7.11	5.97	1500.4E6	1894.1E6	5.942	4.979

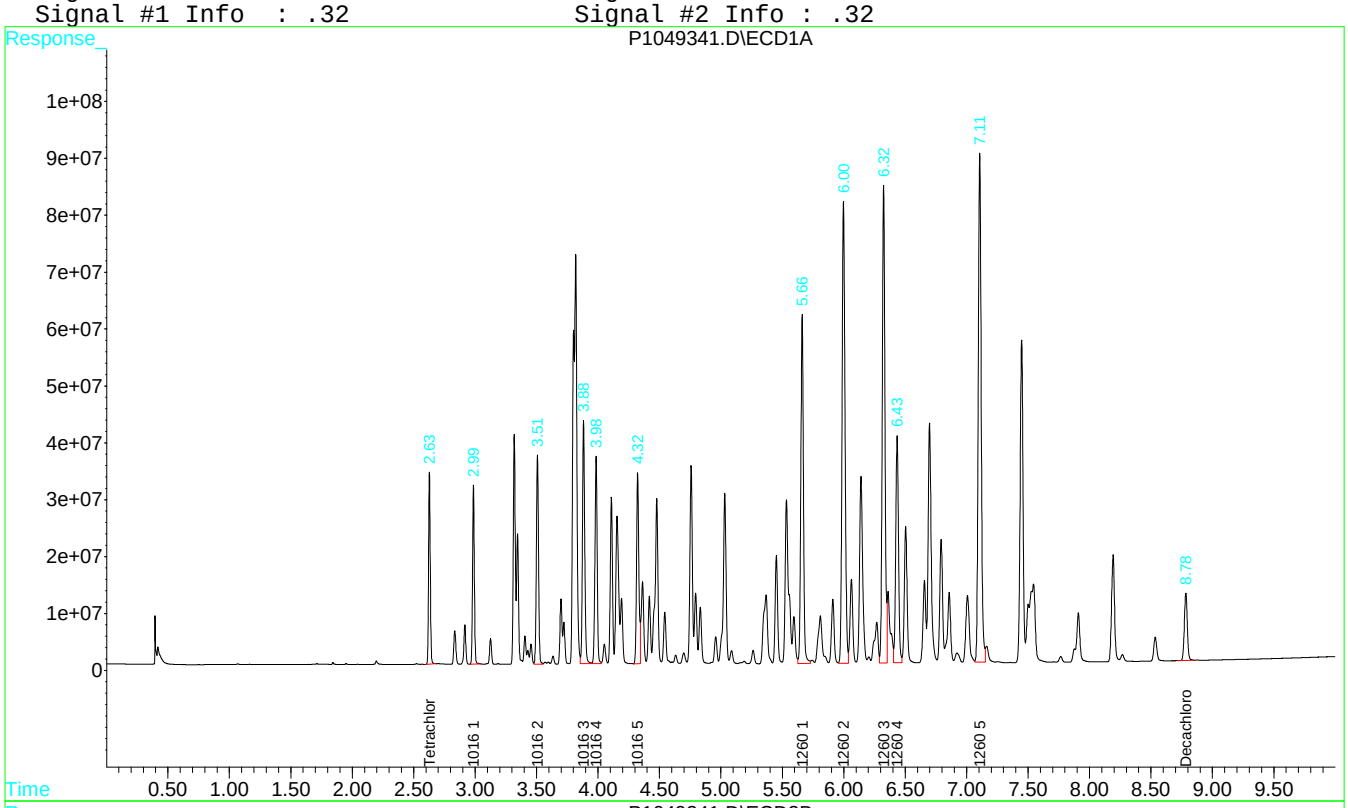
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1049341.D P1051519.M Thu May 16 13:45:50 2019 Page 1

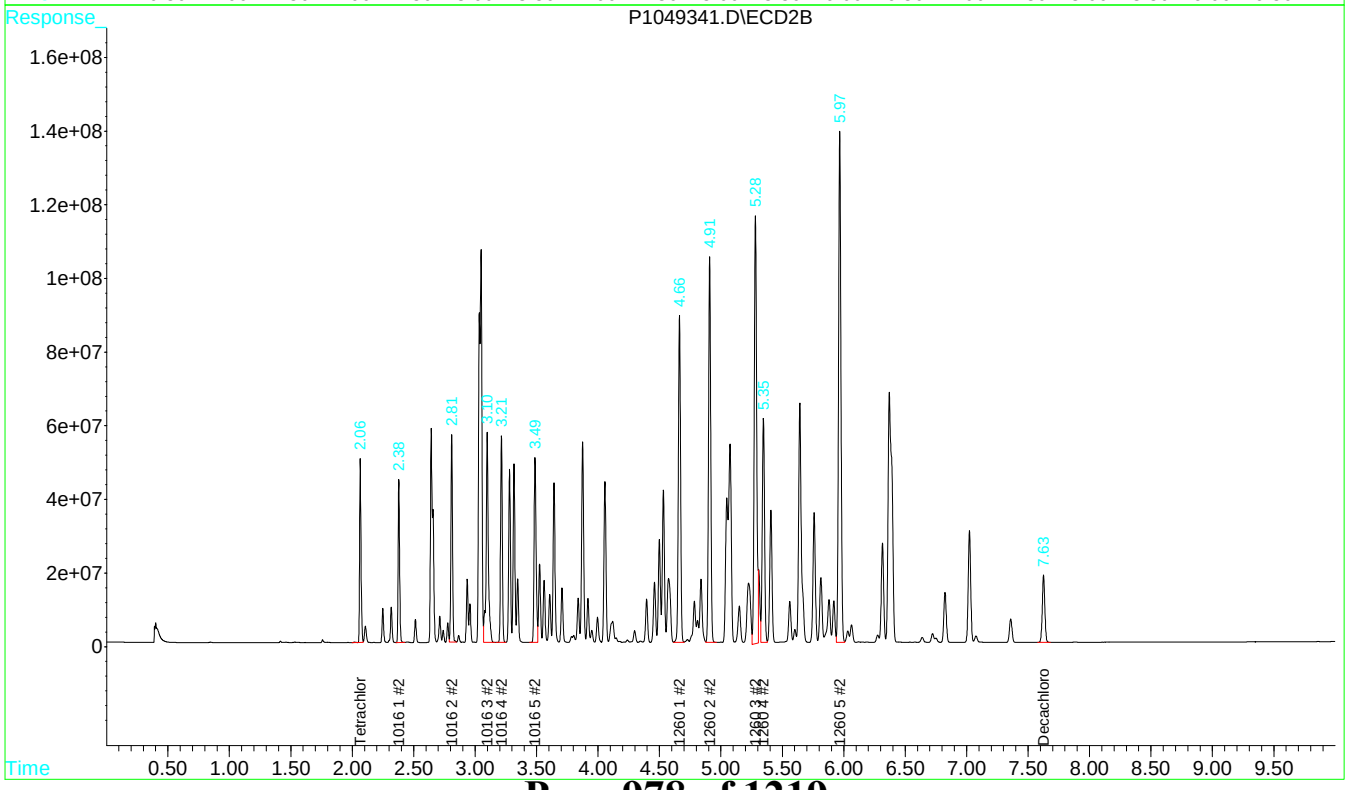
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049341.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049341.D\ECD2B.CH
Acq On : 5-15-2019 5:53:13 PM Operator: SR
Sample : SEQ-CAL6 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:32 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 12:20:48 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Calibration: YE90020 **Laboratory ID:** Y9E1632-SCV1

Sequence: Y9E1632 **Standard ID:** Y19B354

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Aroclor 1016	1.00	0.921	-7.9	20.00
Aroclor 1016 (1)	1.00	0.894	-10.6	20.00
Aroclor 1016 (2)	1.00	0.910	-9.0	20.00
Aroclor 1016 (3)	1.00	0.907	-9.3	20.00
Aroclor 1016 (4)	1.00	0.915	-8.5	20.00
Aroclor 1016 (5)	1.00	0.978	-2.2	20.00
Aroclor 1016 [2C]	1.00	0.942	-5.8	20.00
Aroclor 1016 (1) [2C]	1.00	0.948	-5.2	20.00
Aroclor 1016 (2) [2C]	1.00	0.921	-7.9	20.00
Aroclor 1016 (3) [2C]	1.00	0.994	-0.6	20.00
Aroclor 1016 (4) [2C]	1.00	0.901	-9.9	20.00
Aroclor 1016 (5) [2C]	1.00	0.946	-5.4	20.00
Aroclor 1260	1.00	0.905	-9.5	20.00
Aroclor 1260 (1)	1.00	0.888	-11.2	20.00
Aroclor 1260 (2)	1.00	0.908	-9.2	20.00
Aroclor 1260 (3)	1.00	0.927	-7.3	20.00
Aroclor 1260 (4)	1.00	0.921	-7.9	20.00
Aroclor 1260 (5)	1.00	0.881	-11.9	20.00
Aroclor 1260 [2C]	1.00	0.946	-5.4	20.00
Aroclor 1260 (1) [2C]	1.00	0.908	-9.2	20.00
Aroclor 1260 (2) [2C]	1.00	0.911	-8.9	20.00
Aroclor 1260 (3) [2C]	1.00	1.04	4.4	20.00
Aroclor 1260 (4) [2C]	1.00	0.936	-6.4	20.00
Aroclor 1260 (5) [2C]	1.00	0.930	-7.0	20.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049342.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049342.D\ECD2B.CH
Acq On : 5-15-2019 6:06:47 PM Operator: SR
Sample : SEQ-SCV1 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:43 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 13:42:26 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.06	1046.3E6	1327.5E6	0.160	0.159
	Spiked Amount 0.200	Range 30 - 150		Recovery =		80.00%	79.50%
45) S	Decachlorobiphen	8.78	7.63	635.8E6	859.1E6	0.159	0.158
	Spiked Amount 0.200	Range 30 - 150		Recovery =		79.50%	79.00%
	Target Compounds						
5) T	1016 1	2.99	2.38	111.9E6	137.4E6	0.894m	0.948m
6) T	1016 2	3.51	2.81	155.6E6	181.2E6	0.910	0.921
7) T	1016 3	3.88	3.10	187.6E6	246.0E6	0.907	0.994
8) T	1016 4	3.98	3.21	153.5E6	187.2E6	0.915	0.901
9) T	1016 5	4.32	3.49	150.7E6	188.5E6	0.978	0.946
30) T	1260 1	5.66	4.66	300.3E6	368.7E6	0.888	0.908
31) T	1260 2	6.00	4.91	465.9E6	431.6E6	0.908	0.911
32) T	1260 3	6.32	5.28	436.8E6	580.3E6	0.927	1.044
33) T	1260 4	6.43	5.35	209.4E6	266.7E6	0.921	0.936
34) T	1260 5	7.11	5.97	476.1E6	623.7E6	0.881	0.930

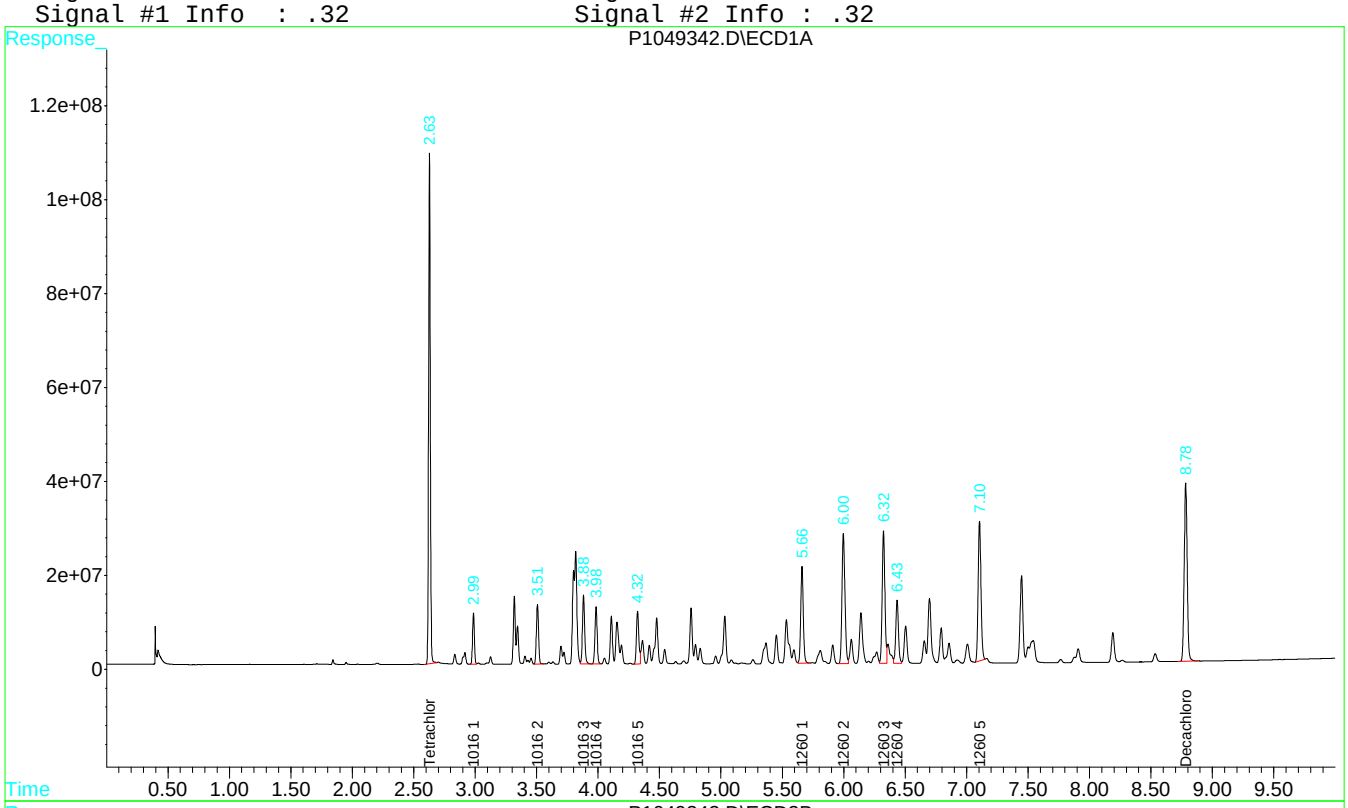
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

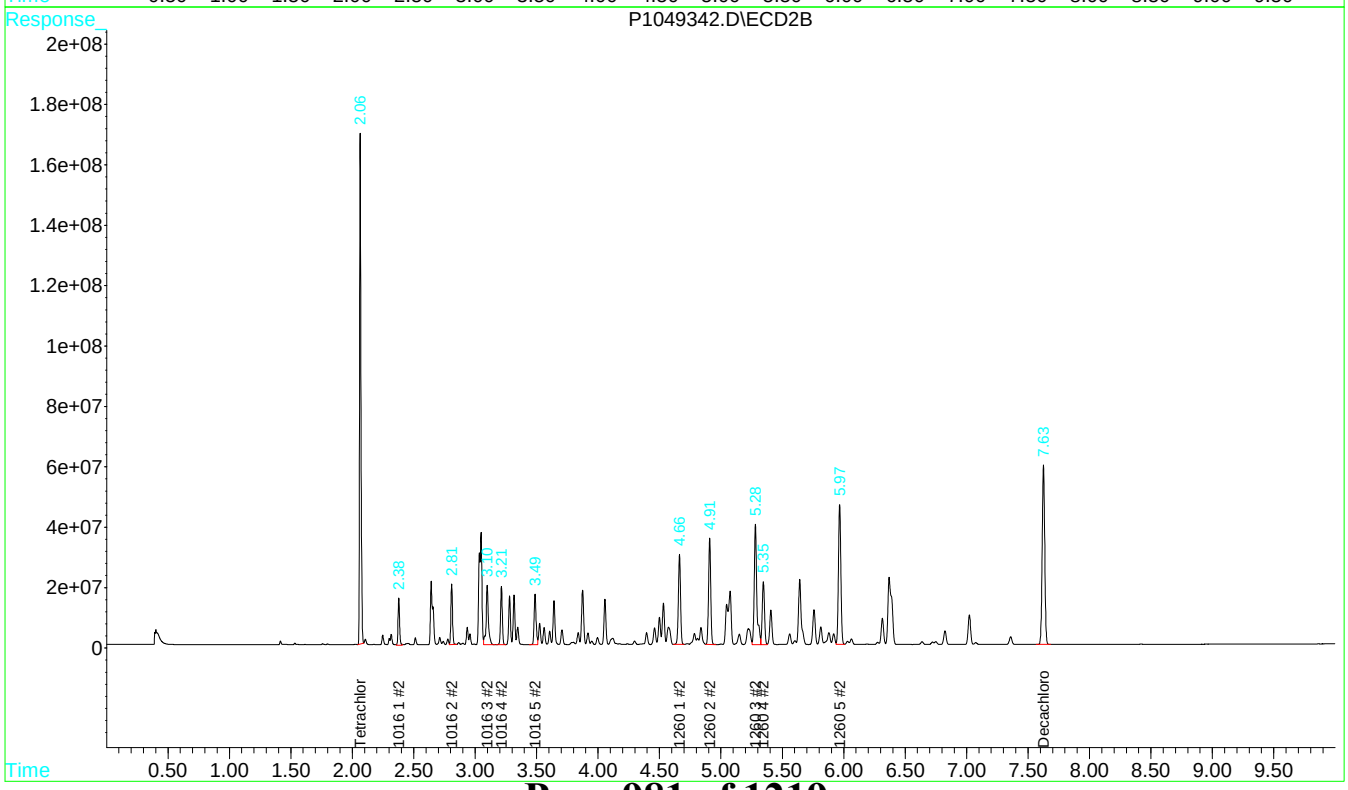
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049342.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049342.D\ECD2B.CH
Acq On : 5-15-2019 6:06:47 PM Operator: SR
Sample : SEQ-SCV1 Inst : ECD#1
Misc : QBP1051519A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:43 2019 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 13:42:26 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063385.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B0739	Injection Date:	02/07/20
Lab Sample ID:	Y0B0739-CCV1	Injection Time:	11:06

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	1.02	1.650183E+08	1.7204E+08		4.3	20	
Aroclor 1016 (1)	A	1.00	0.849	1.251642E+08	1.063E+08		-15.1	20	
Aroclor 1016 (1) [2C]	A	1.00	1.38	1.448888E+08	1.998E+08		37.9	20	*
Aroclor 1016 (2)	A	1.00	0.972	1.711105E+08	1.664E+08		-2.8	20	
Aroclor 1016 (2) [2C]	A	1.00	1.52	1.968172E+08	2.996E+08		52.2	20	*
Aroclor 1016 (3)	A	1.00	1.22	2.067802E+08	2.533E+08		22.5	20	*
Aroclor 1016 (3) [2C]	A	1.00	1.63	2.474585E+08	4.03E+08		62.9	20	*
Aroclor 1016 (4)	A	1.00	1.09	1.678594E+08	1.823E+08		8.6	20	
Aroclor 1016 (4) [2C]	A	1.00	1.48	2.077158E+08	3.083E+08		48.4	20	*
Aroclor 1016 (5)	A	1.00	0.986	1.541774E+08	1.519E+08		-1.5	20	
Aroclor 1016 (5) [2C]	A	1.00	1.52	1.992778E+08	3.026E+08		51.8	20	*
Aroclor 1016 [2C]	A	1.00	1.51	1.992316E+08	3.0266E+08		51.9	20	*
Aroclor 1260	A	1.00	1.10	4.179285E+08	4.547E+08		8.8	20	
Aroclor 1260 (1)	A	1.00	1.03	3.380425E+08	3.489E+08		3.2	20	
Aroclor 1260 (1) [2C]	A	1.00	1.51	4.058588E+08	6.132E+08		51.1	20	*
Aroclor 1260 (2)	A	1.00	1.02	5.12915E+08	5.222E+08		1.8	20	
Aroclor 1260 (2) [2C]	A	1.00	1.75	4.73798E+08	8.282E+08		74.8	20	*
Aroclor 1260 (3)	A	1.00	1.04	4.712303E+08	4.924E+08		4.5	20	
Aroclor 1260 (3) [2C]	A	1.00	1.59	5.555795E+08	8.828E+08		58.9	20	*
Aroclor 1260 (4)	A	1.00	1.20	2.272768E+08	2.737E+08		20.4	20	*
Aroclor 1260 (4) [2C]	A	1.00	1.74	2.848594E+08	4.97E+08		74.5	20	*
Aroclor 1260 (5)	A	1.00	1.18	5.40178E+08	6.363E+08		17.8	20	
Aroclor 1260 (5) [2C]	A	1.00	1.93	6.703154E+08	1.2919E+09		92.7	20	*
Aroclor 1260 [2C]	A	1.00	1.70	4.780822E+08	8.2262E+08		72.1	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)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063385.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063385.D\ECD2B.CH
Acq On : 2-7-2020 11:06:38 AM Operator: SR
Sample : SEQ-CCV1 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 7 11:18 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	2.64	2.05	1173.1E6	2047.0E6	0.179	0.246	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		89.50%	123.00%	
45)	S Decachlorobiphen	8.80	7.58f	849.5E6	1558.0E6	0.212	0.287	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		106.00%	143.50%	
	Target Compounds							
5)	T 1016 1	2.99	2.36	106.3E6	199.8E6	0.849	1.379	#
6)	T 1016 2	3.52	2.78f	166.4E6	299.6E6	0.972	1.522	#
7)	T 1016 3	3.89	3.07f	253.3E6	403.0E6	1.225	1.628	#
8)	T 1016 4	4.00	3.18f	182.3E6	308.3E6	1.086	1.484	#
9)	T 1016 5	4.33	3.46	151.9E6	302.6E6	0.986	1.519	#
30)	T 1260 1	5.67	4.63f	348.9E6	613.2E6	1.032	1.511	#
31)	T 1260 2	6.01	4.87f	522.2E6	828.2E6	1.018	1.748	#
32)	T 1260 3	6.34	5.24f	492.4E6	882.8E6	1.045m	1.589m	#
33)	T 1260 4	6.45	5.31f	273.7E6	497.0E6	1.204	1.745m	#
34)	T 1260 5	7.12	5.93f	636.3E6	1291.9E6	1.178m	1.927	#

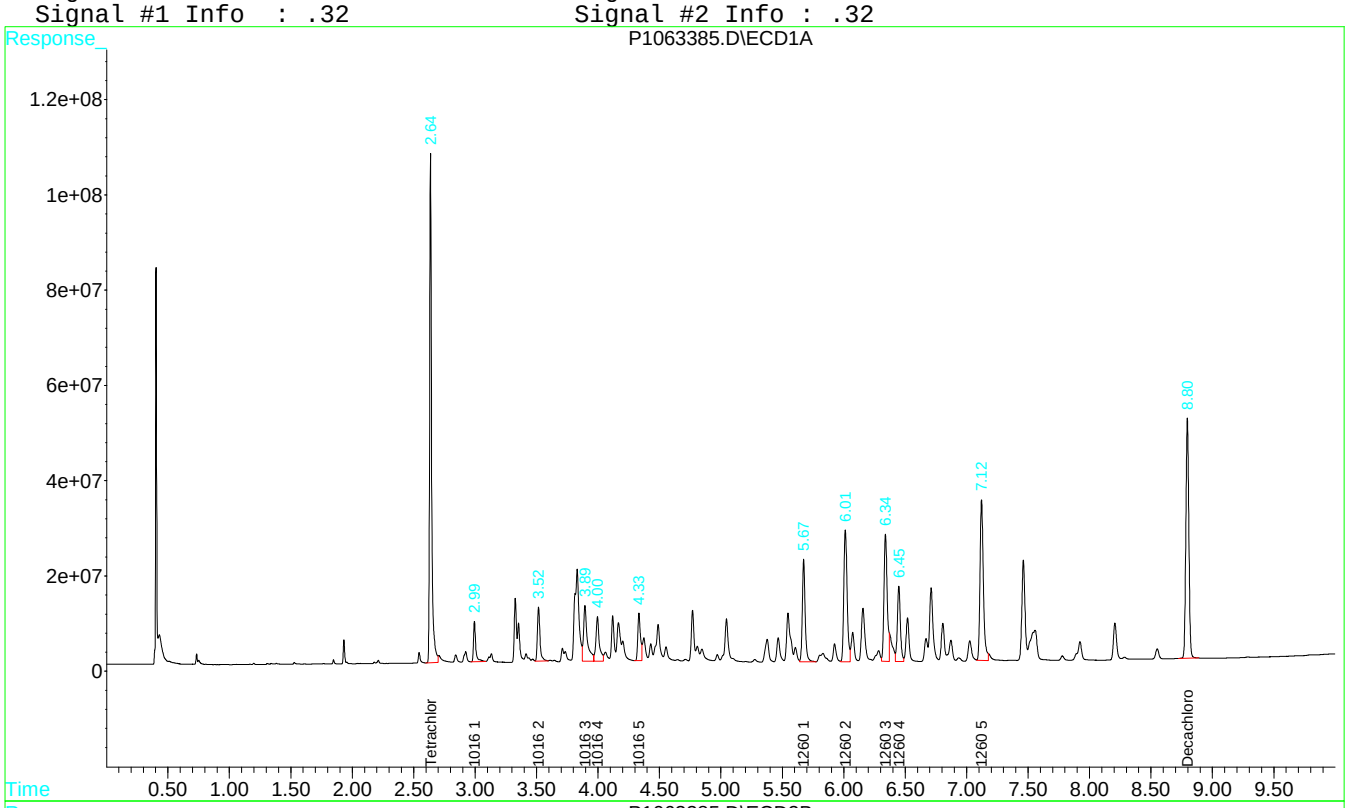
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063385.D P1051519.M Fri Feb 07 17:00:43 2020 Page 1

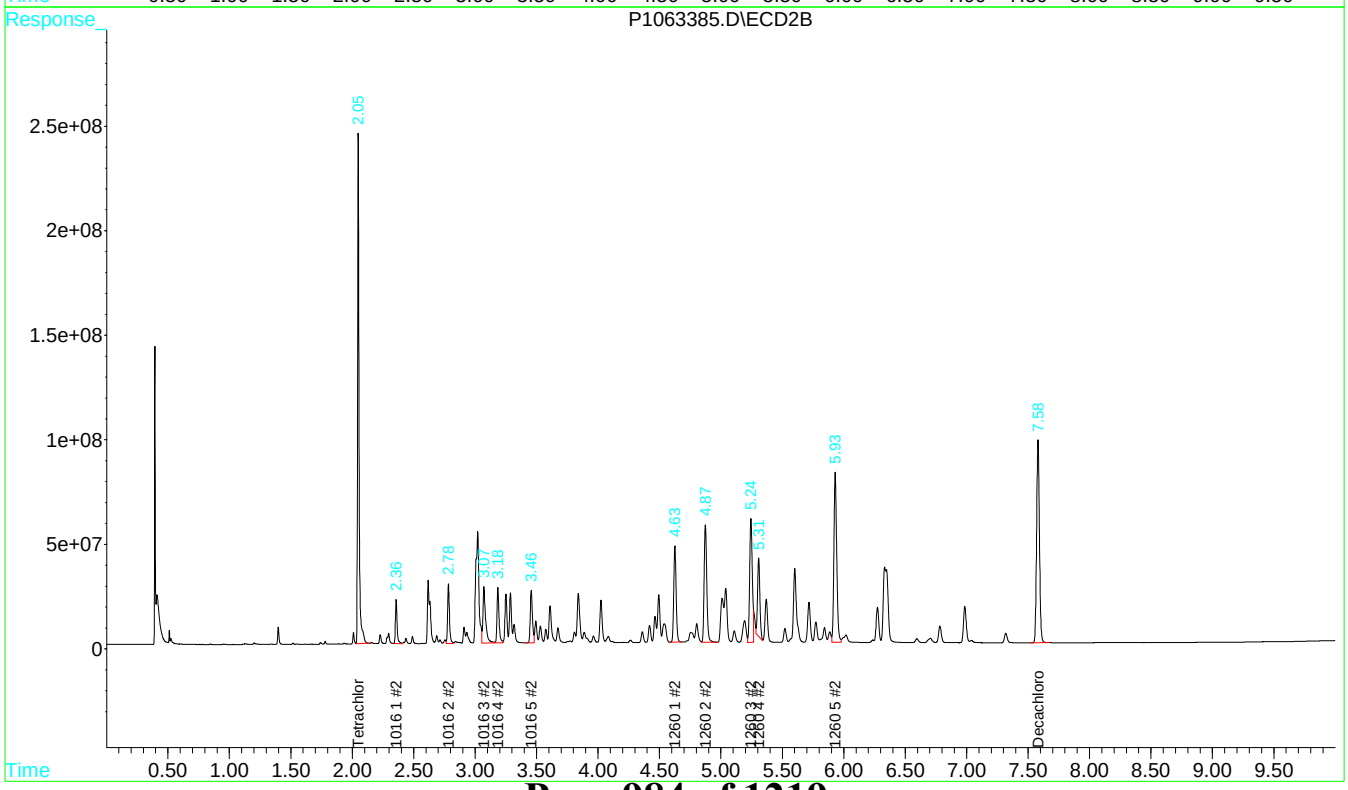
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063385.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063385.D\ECD2B.CH
Acq On : 2-7-2020 11:06:38 AM Operator: SR
Sample : SEQ-CCV1 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 7 11:18 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063405.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B0739	Injection Date:	02/07/20
Lab Sample ID:	Y0B0739-CCV2	Injection Time:	15:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	1.04	1.650183E+08	1.756E+08		6.4	20	
Aroclor 1016 (1)	A	1.00	0.845	1.251642E+08	1.058E+08		-15.5	20	
Aroclor 1016 (1) [2C]	A	1.00	1.44	1.448888E+08	2.085E+08		43.9	20	*
Aroclor 1016 (2)	A	1.00	0.973	1.711105E+08	1.665E+08		-2.7	20	
Aroclor 1016 (2) [2C]	A	1.00	1.58	1.968172E+08	3.101E+08		57.6	20	*
Aroclor 1016 (3)	A	1.00	1.25	2.067802E+08	2.591E+08		25.3	20	*
Aroclor 1016 (3) [2C]	A	1.00	1.65	2.474585E+08	4.081E+08		64.9	20	*
Aroclor 1016 (4)	A	1.00	1.13	1.678594E+08	1.894E+08		12.8	20	
Aroclor 1016 (4) [2C]	A	1.00	1.55	2.077158E+08	3.213E+08		54.7	20	*
Aroclor 1016 (5)	A	1.00	1.02	1.541774E+08	1.572E+08		2.0	20	
Aroclor 1016 (5) [2C]	A	1.00	1.59	1.992778E+08	3.166E+08		58.9	20	*
Aroclor 1016 [2C]	A	1.00	1.56	1.992316E+08	3.1292E+08		57.1	20	*
Aroclor 1260	A	1.00	1.12	4.179285E+08	4.6532E+08		11.3	20	
Aroclor 1260 (1)	A	1.00	1.11	3.380425E+08	3.749E+08		10.9	20	
Aroclor 1260 (1) [2C]	A	1.00	1.61	4.058588E+08	6.538E+08		61.1	20	*
Aroclor 1260 (2)	A	1.00	1.03	5.12915E+08	5.296E+08		3.3	20	
Aroclor 1260 (2) [2C]	A	1.00	1.88	4.73798E+08	8.906E+08		88.0	20	*
Aroclor 1260 (3)	A	1.00	1.06	4.712303E+08	4.985E+08		5.8	20	
Aroclor 1260 (3) [2C]	A	1.00	1.61	5.555795E+08	8.941E+08		60.9	20	*
Aroclor 1260 (4)	A	1.00	1.18	2.272768E+08	2.686E+08		18.2	20	
Aroclor 1260 (4) [2C]	A	1.00	1.91	2.848594E+08	5.43E+08		90.6	20	*
Aroclor 1260 (5)	A	1.00	1.21	5.40178E+08	6.55E+08		21.3	20	*
Aroclor 1260 (5) [2C]	A	1.00	2.10	6.703154E+08	1.4097E+09		110	20	*
Aroclor 1260 [2C]	A	1.00	1.82	4.780822E+08	8.7824E+08		83.7	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)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063405.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063405.D\ECD2B.CH
Acq On : 2-7-2020 3:40:13 PM Operator: SR
Sample : SEQ-CCV2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 7 16:03 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.05	1196.0E6	2116.9E6	0.183	0.254 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		91.50%	127.00%
45) S	Decachlorobiphen	8.78	7.58f	959.0E6	1749.9E6	0.239	0.322 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		119.50%	161.00%#
	Target Compounds						
5) T	1016 1	2.98	2.36	105.8E6	208.5E6	0.845	1.439 #
6) T	1016 2	3.50	2.78f	166.5E6	310.1E6	0.973	1.575 #
7) T	1016 3	3.88	3.07f	259.1E6	408.1E6	1.253	1.649 #
8) T	1016 4	3.98	3.19f	189.4E6	321.3E6	1.128	1.547 #
9) T	1016 5	4.32	3.46	157.2E6	316.6E6	1.020	1.589 #
30) T	1260 1	5.66	4.63f	374.9E6	653.8E6	1.109	1.611 #
31) T	1260 2	6.00	4.87f	529.6E6	890.6E6	1.032	1.880 #
32) T	1260 3	6.32	5.24f	498.5E6	894.1E6	1.058m	1.609m#
33) T	1260 4	6.43	5.31f	268.6E6	543.0E6	1.182m	1.906m#
34) T	1260 5	7.11	5.93f	655.0E6	1409.7E6	1.213m	2.103 #

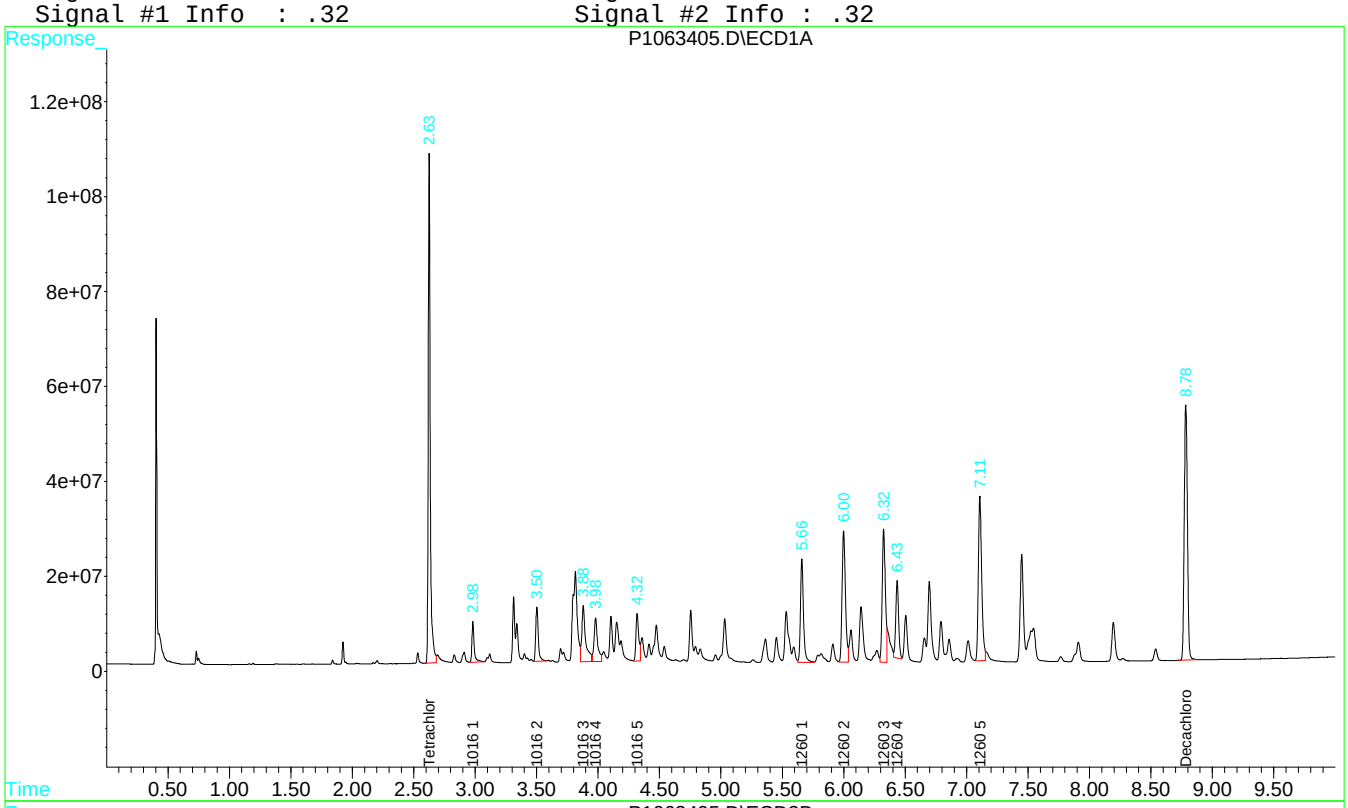
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063405.D P1051519.M Fri Feb 07 17:01:12 2020 Page 1

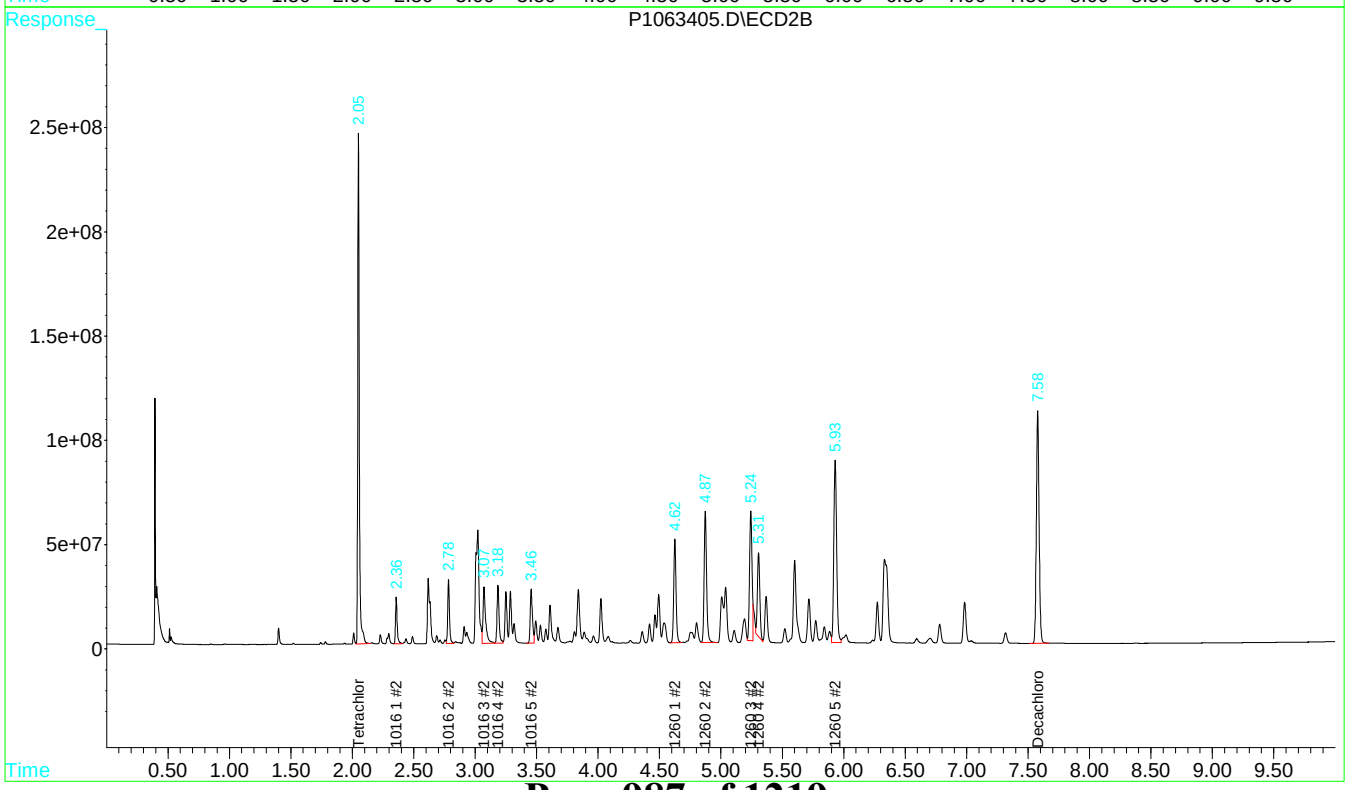
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063405.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063405.D\ECD2B.CH
Acq On : 2-7-2020 3:40:13 PM Operator: SR
Sample : SEQ-CCV2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 7 16:03 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063409.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B0739	Injection Date:	02/07/20
Lab Sample ID:	Y0B0739-CCV3	Injection Time:	16:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	1.04	1.650183E+08	1.7458E+08		5.8	20	
Aroclor 1016 (1)	A	1.00	0.842	1.251642E+08	1.053E+08		-15.9	20	
Aroclor 1016 (1) [2C]	A	1.00	1.44	1.448888E+08	2.081E+08		43.6	20	*
Aroclor 1016 (2)	A	1.00	0.965	1.711105E+08	1.652E+08		-3.5	20	
Aroclor 1016 (2) [2C]	A	1.00	1.57	1.968172E+08	3.095E+08		57.3	20	*
Aroclor 1016 (3)	A	1.00	1.25	2.067802E+08	2.582E+08		24.9	20	*
Aroclor 1016 (3) [2C]	A	1.00	1.63	2.474585E+08	4.028E+08		62.8	20	*
Aroclor 1016 (4)	A	1.00	1.12	1.678594E+08	1.886E+08		12.4	20	
Aroclor 1016 (4) [2C]	A	1.00	1.54	2.077158E+08	3.192E+08		53.7	20	*
Aroclor 1016 (5)	A	1.00	1.01	1.541774E+08	1.556E+08		0.9	20	
Aroclor 1016 (5) [2C]	A	1.00	1.58	1.992778E+08	3.141E+08		57.6	20	*
Aroclor 1016 [2C]	A	1.00	1.55	1.992316E+08	3.1074E+08		56.0	20	*
Aroclor 1260	A	1.00	1.09	4.179285E+08	4.5504E+08		8.9	20	
Aroclor 1260 (1)	A	1.00	1.10	3.380425E+08	3.714E+08		9.9	20	
Aroclor 1260 (1) [2C]	A	1.00	1.60	4.058588E+08	6.488E+08		59.9	20	*
Aroclor 1260 (2)	A	1.00	1.01	5.12915E+08	5.178E+08		1.0	20	
Aroclor 1260 (2) [2C]	A	1.00	1.86	4.73798E+08	8.799E+08		85.7	20	*
Aroclor 1260 (3)	A	1.00	1.00	4.712303E+08	4.726E+08		0.3	20	
Aroclor 1260 (3) [2C]	A	1.00	1.64	5.555795E+08	9.128E+08		64.3	20	*
Aroclor 1260 (4)	A	1.00	1.14	2.272768E+08	2.589E+08		13.9	20	
Aroclor 1260 (4) [2C]	A	1.00	1.77	2.848594E+08	5.041E+08		77.0	20	*
Aroclor 1260 (5)	A	1.00	1.21	5.40178E+08	6.545E+08		21.2	20	*
Aroclor 1260 (5) [2C]	A	1.00	2.06	6.703154E+08	1.3838E+09		106	20	*
Aroclor 1260 [2C]	A	1.00	1.79	4.780822E+08	8.6588E+08		81.1	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)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063409.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063409.D\ECD2B.CH
Acq On : 2-7-2020 4:34:51 PM Operator: SR
Sample : SEQ-CCV3 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 7 17:00 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.05	1202.3E6	2120.9E6	0.184	0.254 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		92.00%	127.00%
45) S	Decachlorobiphen	8.78	7.58f	928.3E6	1688.7E6	0.232	0.311 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		116.00%	155.50%#
	Target Compounds						
5) T	1016 1	2.98	2.36	105.3E6	208.1E6	0.842	1.436 #
6) T	1016 2	3.50	2.78f	165.2E6	309.5E6	0.965	1.573 #
7) T	1016 3	3.88	3.07f	258.2E6	402.8E6	1.249	1.628 #
8) T	1016 4	3.98	3.19f	188.6E6	319.2E6	1.124	1.537 #
9) T	1016 5	4.32	3.46	155.6E6	314.1E6	1.009	1.576 #
30) T	1260 1	5.66	4.63f	371.4E6	648.8E6	1.099	1.599 #
31) T	1260 2	6.00	4.87f	517.8E6	879.9E6	1.010	1.857 #
32) T	1260 3	6.33	5.24f	472.6E6	912.8E6	1.003m	1.643m#
33) T	1260 4	6.43	5.31f	258.9E6	504.1E6	1.139m	1.770m#
34) T	1260 5	7.11	5.93f	654.5E6	1383.8E6	1.212m	2.064 #

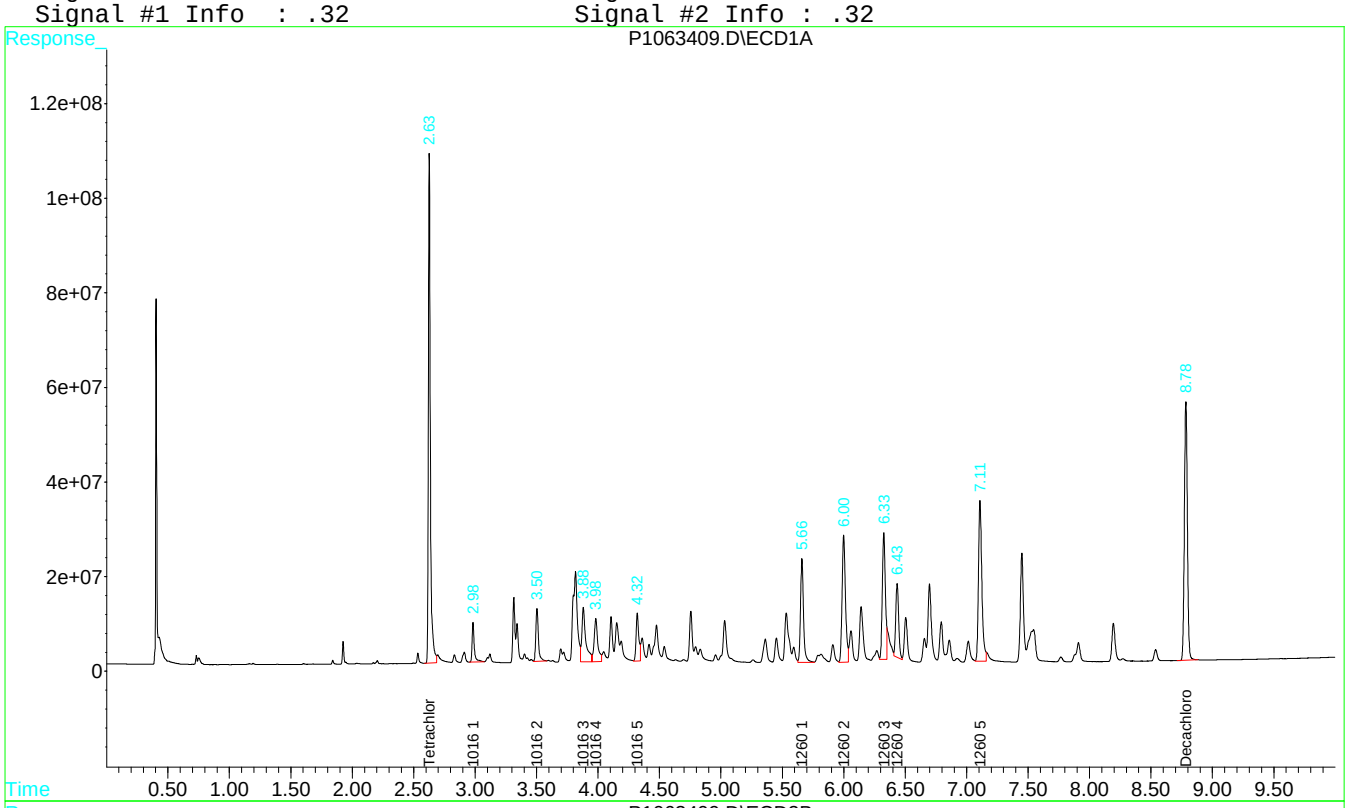
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063409.D P1051519.M Fri Feb 07 17:01:18 2020 Page 1

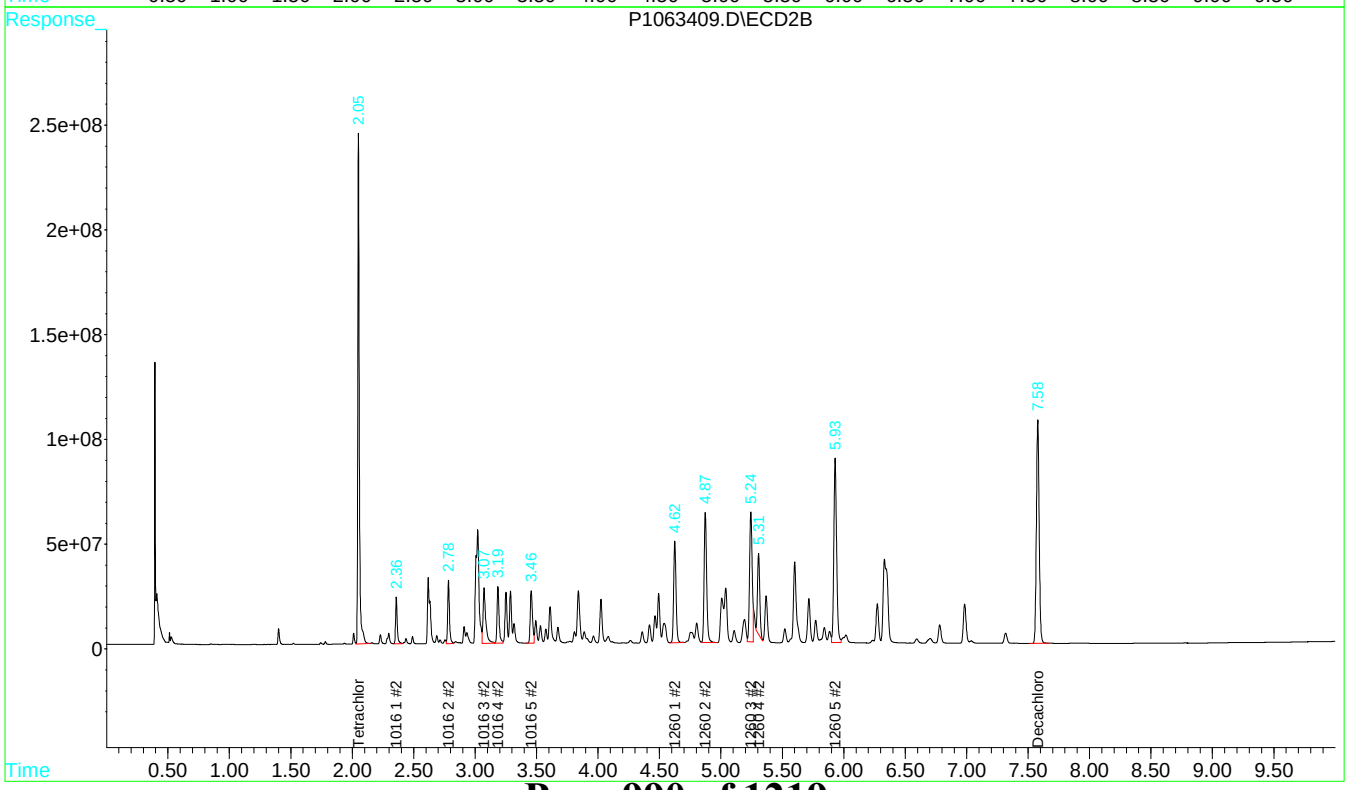
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063409.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063409.D\ECD2B.CH
Acq On : 2-7-2020 4:34:51 PM Operator: SR
Sample : SEQ-CCV3 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 7 17:00 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063430.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B0739	Injection Date:	02/07/20
Lab Sample ID:	Y0B0739-CCV4	Injection Time:	21:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	1.05	1.650183E+08	1.767E+08		7.1	20	
Aroclor 1016 (1)	A	1.00	0.856	1.251642E+08	1.071E+08		-14.4	20	
Aroclor 1016 (1) [2C]	A	1.00	1.39	1.448888E+08	2.013E+08		38.9	20	*
Aroclor 1016 (2)	A	1.00	0.974	1.711105E+08	1.666E+08		-2.6	20	
Aroclor 1016 (2) [2C]	A	1.00	1.49	1.968172E+08	2.934E+08		49.1	20	*
Aroclor 1016 (3)	A	1.00	1.28	2.067802E+08	2.643E+08		27.8	20	*
Aroclor 1016 (3) [2C]	A	1.00	1.58	2.474585E+08	3.896E+08		57.4	20	*
Aroclor 1016 (4)	A	1.00	1.13	1.678594E+08	1.896E+08		13.0	20	
Aroclor 1016 (4) [2C]	A	1.00	1.49	2.077158E+08	3.097E+08		49.1	20	*
Aroclor 1016 (5)	A	1.00	1.01	1.541774E+08	1.559E+08		1.1	20	
Aroclor 1016 (5) [2C]	A	1.00	1.54	1.992778E+08	3.077E+08		54.4	20	*
Aroclor 1016 [2C]	A	1.00	1.50	1.992316E+08	3.0034E+08		50.7	20	*
Aroclor 1260	A	1.00	1.07	4.179285E+08	4.4456E+08		6.4	20	
Aroclor 1260 (1)	A	1.00	1.05	3.380425E+08	3.549E+08		5.0	20	
Aroclor 1260 (1) [2C]	A	1.00	1.53	4.058588E+08	6.216E+08		53.2	20	*
Aroclor 1260 (2)	A	1.00	0.996	5.12915E+08	5.108E+08		-0.4	20	
Aroclor 1260 (2) [2C]	A	1.00	1.78	4.73798E+08	8.439E+08		78.1	20	*
Aroclor 1260 (3)	A	1.00	0.980	4.712303E+08	4.619E+08		-2.0	20	
Aroclor 1260 (3) [2C]	A	1.00	1.56	5.555795E+08	8.697E+08		56.5	20	*
Aroclor 1260 (4)	A	1.00	1.16	2.272768E+08	2.631E+08		15.8	20	
Aroclor 1260 (4) [2C]	A	1.00	1.06	2.848594E+08	3.02E+08		6.0	20	
Aroclor 1260 (5)	A	1.00	1.17	5.40178E+08	6.321E+08		17.0	20	
Aroclor 1260 (5) [2C]	A	1.00	1.92	6.703154E+08	1.2857E+09		91.8	20	*
Aroclor 1260 [2C]	A	1.00	1.57	4.780822E+08	7.8458E+08		64.1	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)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063430.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063430.D\ECD2B.CH
Acq On : 2-7-2020 9:21:36 PM Operator: SR
Sample : SEQ-CCV4 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 10:46 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	2.63	2.05	1207.1E6	2093.8E6	0.184	0.251	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		92.00%	125.50%	
45)	S Decachlorobiphen	8.78	7.58f	878.5E6	1507.2E6	0.219	0.278	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		109.50%	139.00%	
	Target Compounds							
5)	T 1016 1	2.98	2.36	107.1E6	201.3E6	0.856	1.390	#
6)	T 1016 2	3.50	2.78f	166.6E6	293.4E6	0.974	1.491	#
7)	T 1016 3	3.88	3.07f	264.3E6	389.6E6	1.278	1.575	
8)	T 1016 4	3.98	3.19f	189.6E6	309.7E6	1.129	1.491	#
9)	T 1016 5	4.32	3.46	155.9E6	307.7E6	1.011	1.544	#
30)	T 1260 1	5.66	4.63f	354.9E6	621.6E6	1.050	1.532	#
31)	T 1260 2	6.00	4.87f	510.8E6	843.9E6	0.996	1.781	#
32)	T 1260 3	6.32	5.24f	461.9E6	869.7E6	0.980m	1.565m	#
33)	T 1260 4	6.43	5.37	263.1E6	302.0E6	1.158m	1.060	
34)	T 1260 5	7.11	5.93f	632.1E6	1285.7E6	1.170m	1.918	#

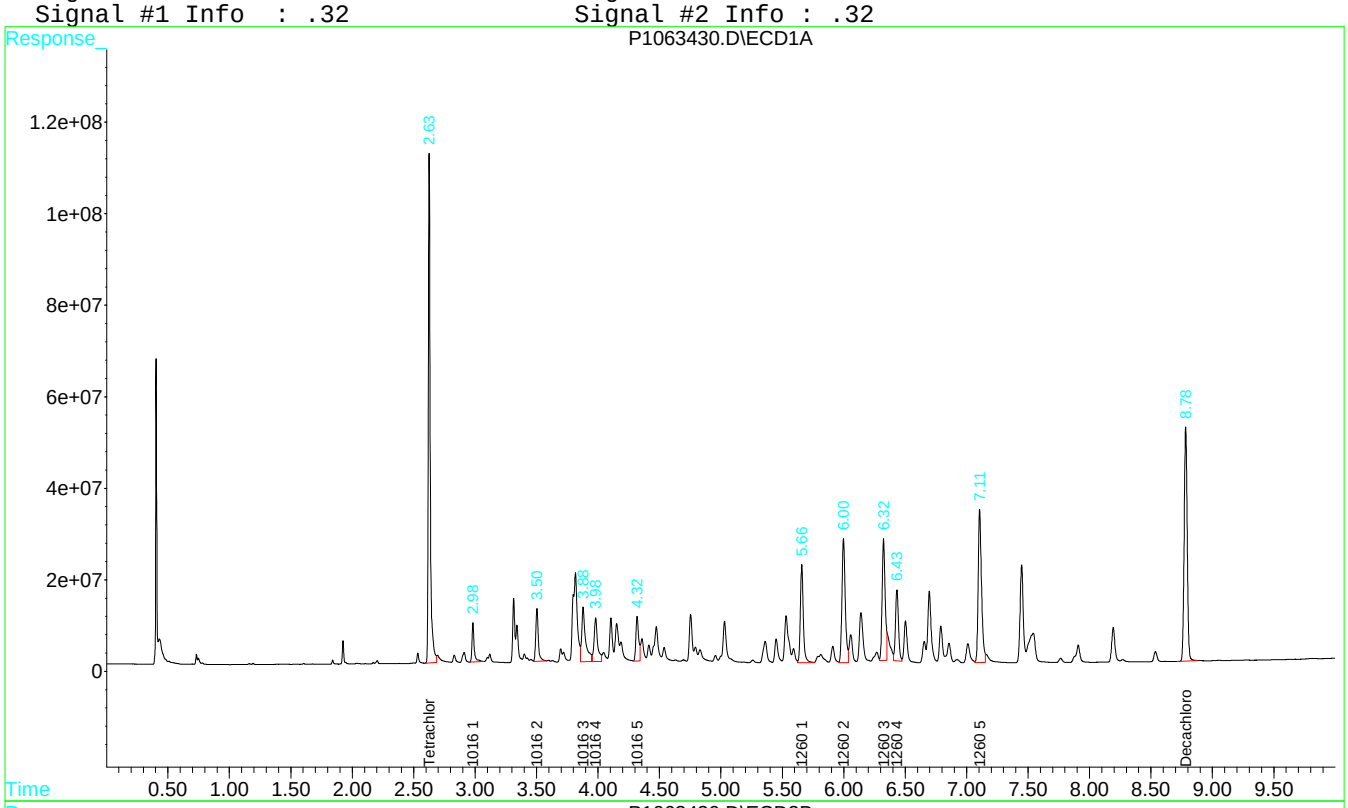
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063430.D P1051519.M Mon Feb 10 11:06:01 2020 Page 1

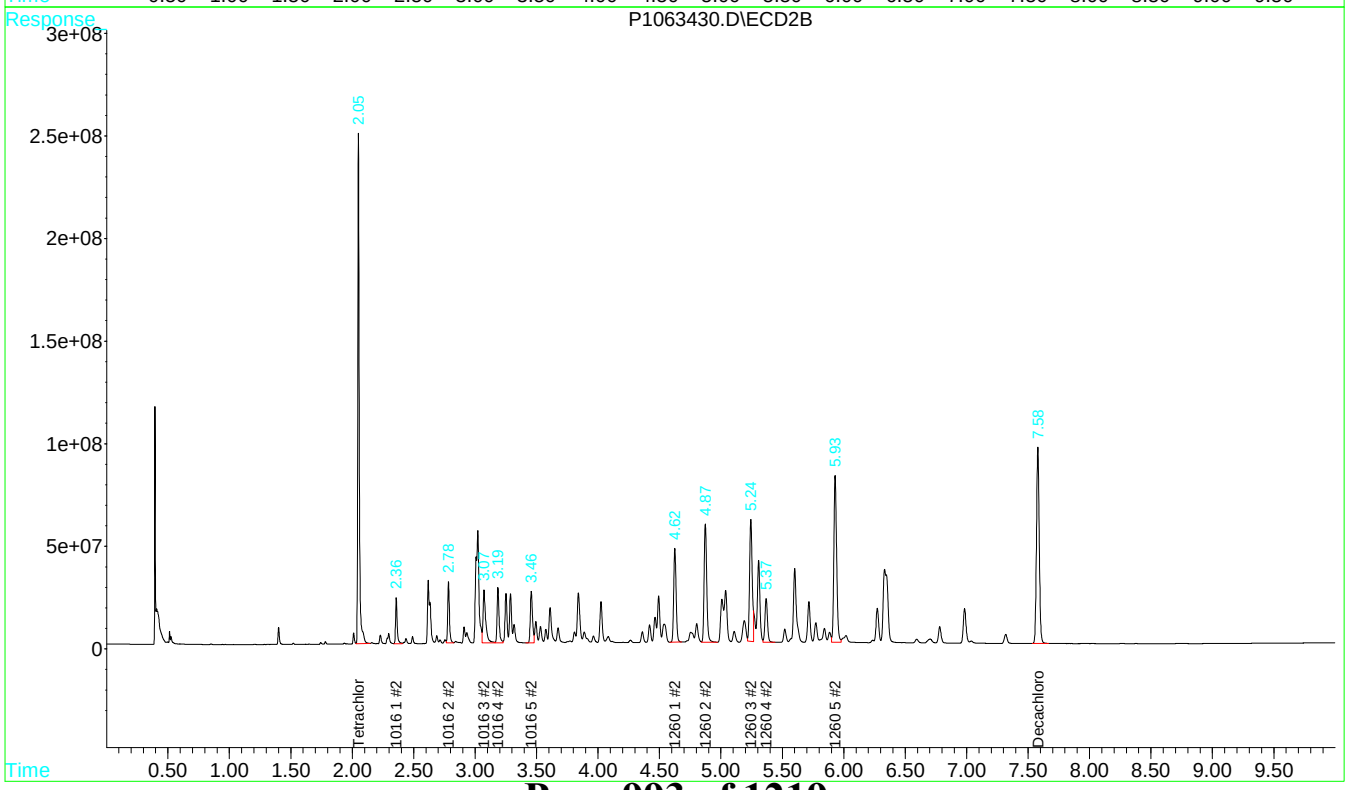
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063430.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063430.D\ECD2B.CH
Acq On : 2-7-2020 9:21:36 PM Operator: SR
Sample : SEQ-CCV4 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 10:46 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063446.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B0739	Injection Date:	02/08/20
Lab Sample ID:	Y0B0739-CCV5	Injection Time:	00:59

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	1.02	1.650183E+08	1.7074E+08		3.5	20	
Aroclor 1016 (1)	A	1.00	0.857	1.251642E+08	1.073E+08		-14.3	20	
Aroclor 1016 (1) [2C]	A	1.00	1.43	1.448888E+08	2.066E+08		42.6	20	*
Aroclor 1016 (2)	A	1.00	0.960	1.711105E+08	1.642E+08		-4.0	20	
Aroclor 1016 (2) [2C]	A	1.00	1.52	1.968172E+08	2.995E+08		52.2	20	*
Aroclor 1016 (3)	A	1.00	1.20	2.067802E+08	2.488E+08		20.3	20	*
Aroclor 1016 (3) [2C]	A	1.00	1.56	2.474585E+08	3.855E+08		55.8	20	*
Aroclor 1016 (4)	A	1.00	1.07	1.678594E+08	1.795E+08		6.9	20	
Aroclor 1016 (4) [2C]	A	1.00	1.50	2.077158E+08	3.116E+08		50.0	20	*
Aroclor 1016 (5)	A	1.00	0.998	1.541774E+08	1.539E+08		-0.2	20	
Aroclor 1016 (5) [2C]	A	1.00	1.52	1.992778E+08	3.031E+08		52.1	20	*
Aroclor 1016 [2C]	A	1.00	1.51	1.992316E+08	3.0126E+08		51.2	20	*
Aroclor 1260	A	1.00	1.09	4.179285E+08	4.4776E+08		7.1	20	
Aroclor 1260 (1)	A	1.00	1.06	3.380425E+08	3.581E+08		5.9	20	
Aroclor 1260 (1) [2C]	A	1.00	1.52	4.058588E+08	6.15E+08		51.5	20	*
Aroclor 1260 (2)	A	1.00	0.976	5.12915E+08	5.004E+08		-2.4	20	
Aroclor 1260 (2) [2C]	A	1.00	1.77	4.73798E+08	8.403E+08		77.4	20	*
Aroclor 1260 (3)	A	1.00	1.03	4.712303E+08	4.837E+08		2.6	20	
Aroclor 1260 (3) [2C]	A	1.00	1.66	5.555795E+08	9.197E+08		65.5	20	*
Aroclor 1260 (4)	A	1.00	1.22	2.272768E+08	2.782E+08		22.4	20	*
Aroclor 1260 (4) [2C]	A	1.00	1.71	2.848594E+08	4.866E+08		70.8	20	*
Aroclor 1260 (5)	A	1.00	1.14	5.40178E+08	6.184E+08		14.5	20	
Aroclor 1260 (5) [2C]	A	1.00	1.93	6.703154E+08	1.2943E+09		93.1	20	*
Aroclor 1260 [2C]	A	1.00	1.72	4.780822E+08	8.3118E+08		73.9	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 File : C:\HPCHEM\1\DATA\020720A\P1063446.D\ECD1A.CH Vial: 1
Acq On : 2-8-2020 12:59:27 AM Operator: SR
Sample : SEQ-CCV5 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\020720A\P1063446.D\ECD2B.CH Vial: 1
Acq On : 2-8-2020 12:59:27 AM Operator: SR
Sample : SEQ-CCV5 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Feb 10 9:42 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.05	1236.4E6	2139.6E6	0.189	0.257 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		94.50%	128.50%
45) S	Decachlorobiphen	8.78	7.58f	879.9E6	1521.2E6	0.220	0.280 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		110.00%	140.00%
	Target Compounds						
5) T	1016 1	2.98	2.36	107.3E6	206.6E6	0.857	1.426 #
6) T	1016 2	3.50	2.78	164.2E6	299.5E6	0.960	1.521 #
7) T	1016 3	3.88	3.07	248.8E6	385.5E6	1.203	1.558 #
8) T	1016 4	3.98	3.19f	179.5E6	311.6E6	1.069	1.500 #
9) T	1016 5	4.32	3.46	153.9E6	303.1E6	0.998	1.521 #
30) T	1260 1	5.66	4.63f	358.1E6	615.0E6	1.060	1.515 #
31) T	1260 2	6.00	4.87f	500.4E6	840.3E6	0.976	1.773 #
32) T	1260 3	6.32	5.24f	483.7E6	919.7E6	1.026m	1.655m#
33) T	1260 4	6.43	5.31f	278.2E6	486.6E6	1.224	1.708m#
34) T	1260 5	7.11	5.93f	618.4E6	1294.3E6	1.145m	1.931 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

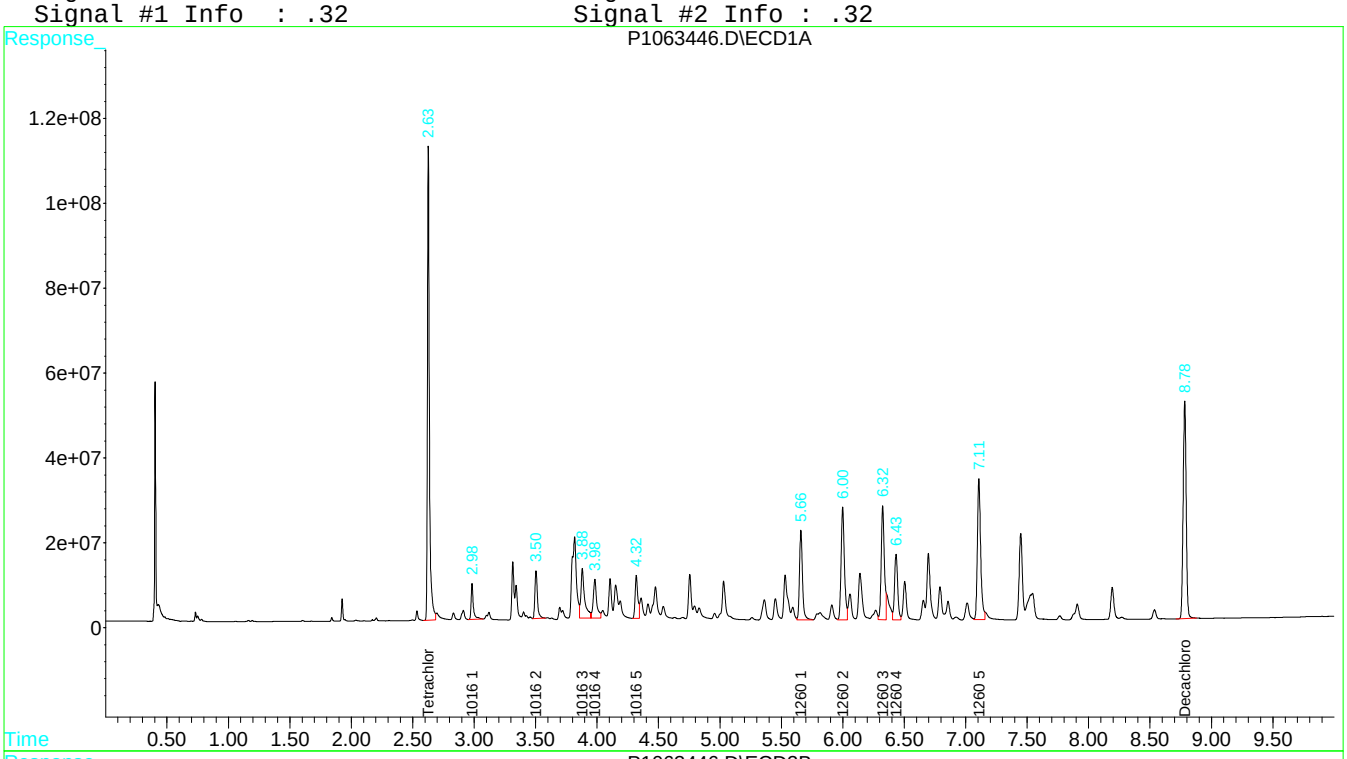
Quantitation Report

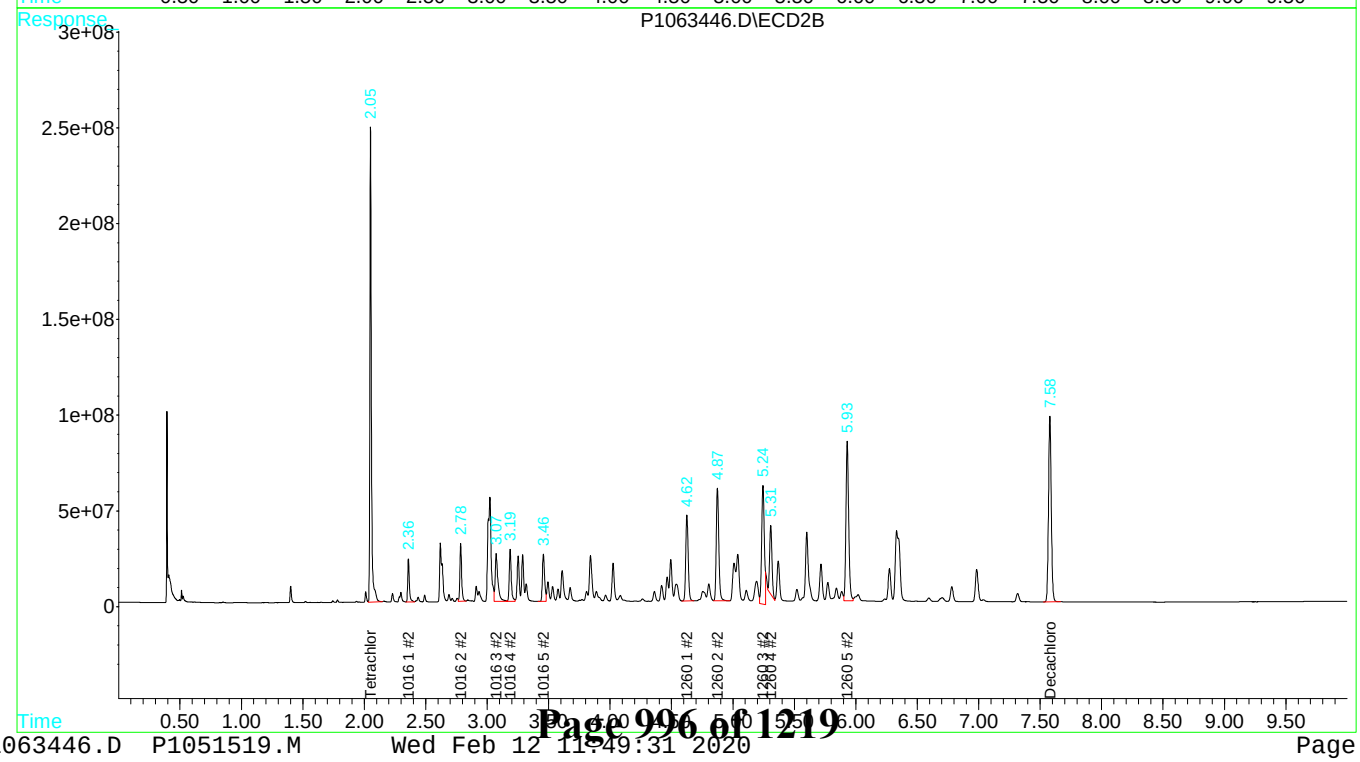
Data File : C:\HPCHEM\1\DATA\020720A\P1063446.D\ECD1A.CH Vial: 1
Acq On : 2-8-2020 12:59:27 AM Operator: SR
Sample : SEQ-CCV5 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\020720A\P1063446.D\ECD2B.CH Vial: 1
Acq On : 2-8-2020 12:59:27 AM Operator: SR
Sample : SEQ-CCV5 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Feb 10 9:42 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063446.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B1025	Injection Date:	02/10/20
Lab Sample ID:	Y0B1025-CCV1	Injection Time:	12:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	0.863	1.650183E+08	1.450153E+08		-12.1	20	
Aroclor 1016 (1)	A	1.00	0.717	1.251642E+08	8.967643E+07		-28.4	20	*
Aroclor 1016 (1) [2C]	A	1.00	1.26	1.448888E+08	1.833E+08		26.5	20	*
Aroclor 1016 (2)	A	1.00	0.842	1.711105E+08	1.442E+08		-15.7	20	
Aroclor 1016 (2) [2C]	A	1.00	1.38	1.968172E+08	2.71E+08		37.7	20	*
Aroclor 1016 (3)	A	1.00	1.02	2.067802E+08	2.112E+08		2.1	20	
Aroclor 1016 (3) [2C]	A	1.00	1.50	2.474585E+08	3.723E+08		50.4	20	*
Aroclor 1016 (4)	A	1.00	0.925	1.678594E+08	1.552E+08		-7.5	20	
Aroclor 1016 (4) [2C]	A	1.00	1.35	2.077158E+08	2.797E+08		34.7	20	*
Aroclor 1016 (5)	A	1.00	0.809	1.541774E+08	1.248E+08		-19.1	20	
Aroclor 1016 (5) [2C]	A	1.00	1.40	1.992778E+08	2.791E+08		40.1	20	*
Aroclor 1016 [2C]	A	1.00	1.38	1.992316E+08	2.7708E+08		39.1	20	*
Aroclor 1260	A	1.00	0.882	4.179285E+08	3.6726E+08		-12.1	20	
Aroclor 1260 (1)	A	1.00	0.833	3.380425E+08	2.817E+08		-16.7	20	
Aroclor 1260 (1) [2C]	A	1.00	1.37	4.058588E+08	5.547E+08		36.7	20	*
Aroclor 1260 (2)	A	1.00	0.817	5.12915E+08	4.19E+08		-18.3	20	
Aroclor 1260 (2) [2C]	A	1.00	1.57	4.73798E+08	7.434E+08		56.9	20	*
Aroclor 1260 (3)	A	1.00	0.824	4.712303E+08	3.886E+08		-17.5	20	
Aroclor 1260 (3) [2C]	A	1.00	1.41	5.555795E+08	7.842E+08		41.1	20	*
Aroclor 1260 (4)	A	1.00	0.954	2.272768E+08	2.167E+08		-4.7	20	
Aroclor 1260 (4) [2C]	A	1.00	1.53	2.848594E+08	4.367E+08		53.3	20	*
Aroclor 1260 (5)	A	1.00	0.982	5.40178E+08	5.303E+08		-1.8	20	
Aroclor 1260 (5) [2C]	A	1.00	1.62	6.703154E+08	1.0854E+09		61.9	20	*
Aroclor 1260 [2C]	A	1.00	1.50	4.780822E+08	7.2088E+08		50.8	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)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063446.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063446.D\ECD2B.CH
Acq On : 2-10-2020 12:36:47 PM Operator: SR
Sample : SEQ-CCV1 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 12:48 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.05	1076.7E6	1950.4E6	0.165	0.234 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		82.50%	117.00%
45) S	Decachlorobiphen	8.77	7.58f	749.7E6	1278.6E6	0.187	0.236m#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		93.50%	118.00%
	Target Compounds						
5) T	1016 1	2.98	2.36	89676428	183.3E6	0.717	1.265 #
6) T	1016 2	3.50	2.79	144.2E6	271.0E6	0.842	1.377 #
7) T	1016 3	3.88	3.07	211.2E6	372.3E6	1.021	1.504 #
8) T	1016 4	3.98	3.19f	155.2E6	279.7E6	0.925	1.346 #
9) T	1016 5	4.32	3.46	124.8E6	279.1E6	0.809	1.401 #
30) T	1260 1	5.65	4.63f	281.7E6	554.7E6	0.833	1.367 #
31) T	1260 2	5.99	4.87f	419.0E6	743.4E6	0.817	1.569 #
32) T	1260 3	6.32	5.24f	388.6E6	784.2E6	0.824m	1.412m#
33) T	1260 4	6.43	5.31f	216.7E6	436.7E6	0.954	1.533m#
34) T	1260 5	7.10	5.93f	530.3E6	1085.4E6	0.982	1.619 #

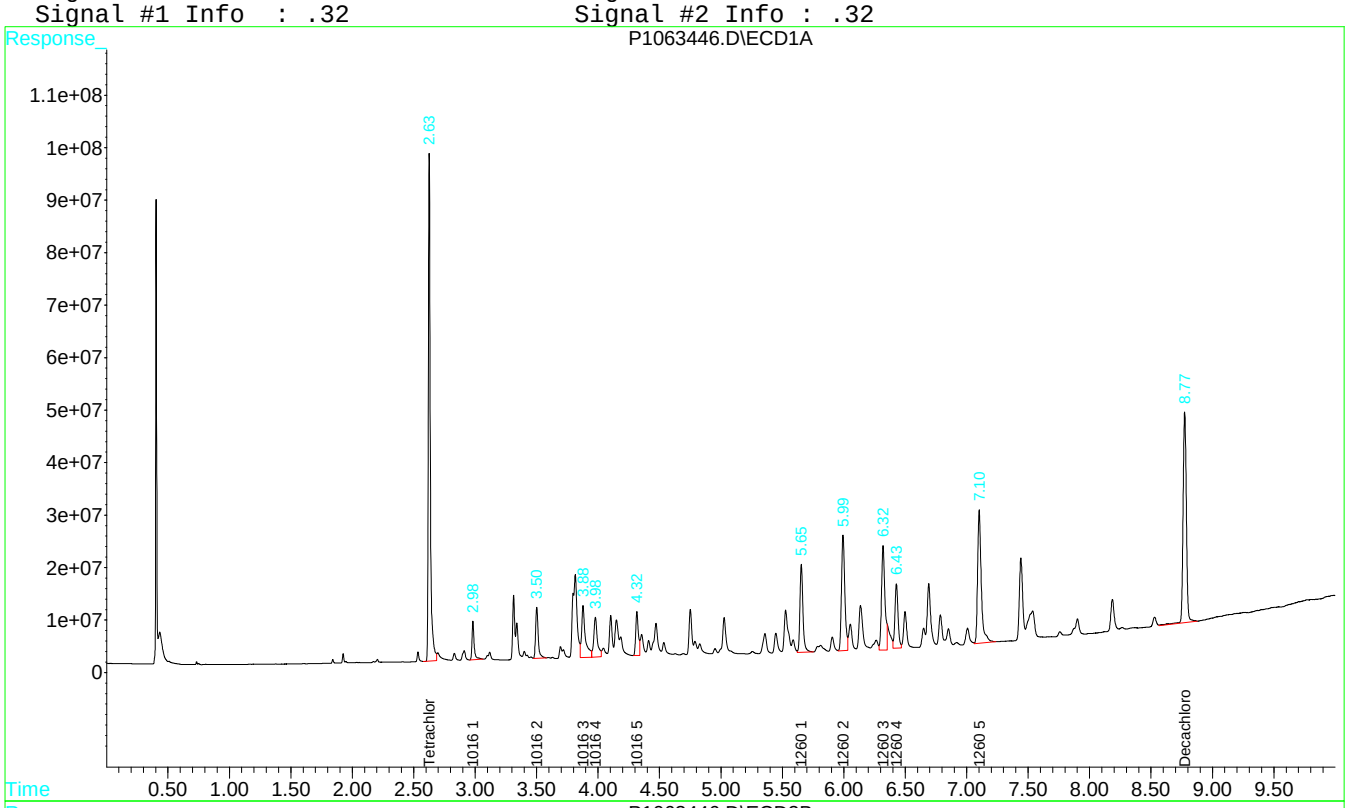
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063446.D P1051519.M Tue Feb 11 10:23:05 2020 Page 1

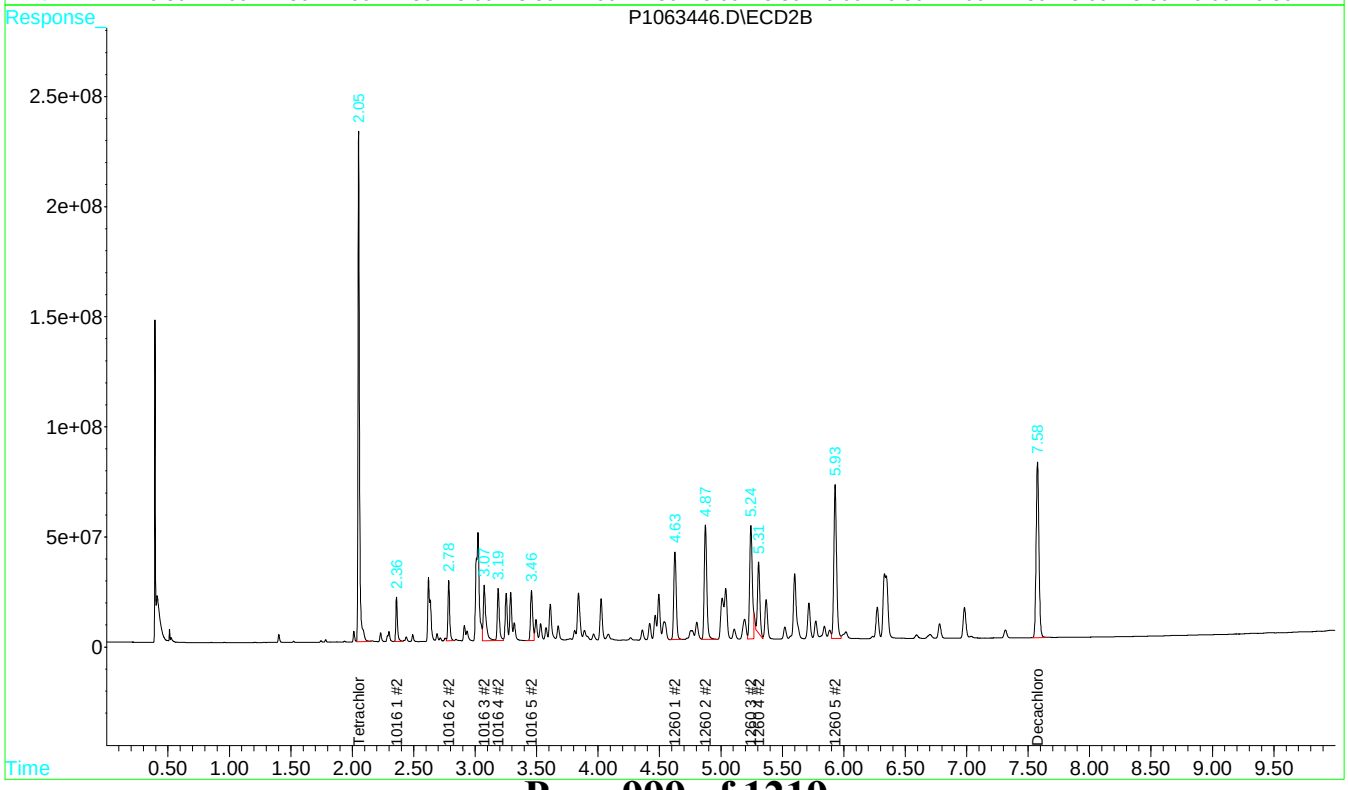
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063446.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063446.D\ECD2B.CH
Acq On : 2-10-2020 12:36:47 PM Operator: SR
Sample : SEQ-CCV1 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 12:48 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063455.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B1025	Injection Date:	02/10/20
Lab Sample ID:	Y0B1025-CCV2	Injection Time:	14:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	0.909	1.650183E+08	1.52438E+08		-7.6	20	
Aroclor 1016 (1)	A	1.00	0.769	1.251642E+08	9.618984E+07		-23.1	20	*
Aroclor 1016 (1) [2C]	A	1.00	1.35	1.448888E+08	1.959E+08		35.2	20	*
Aroclor 1016 (2)	A	1.00	0.894	1.711105E+08	1.53E+08		-10.6	20	
Aroclor 1016 (2) [2C]	A	1.00	1.49	1.968172E+08	2.932E+08		49.0	20	*
Aroclor 1016 (3)	A	1.00	1.07	2.067802E+08	2.203E+08		6.5	20	
Aroclor 1016 (3) [2C]	A	1.00	1.60	2.474585E+08	3.962E+08		60.1	20	*
Aroclor 1016 (4)	A	1.00	0.955	1.678594E+08	1.603E+08		-4.5	20	
Aroclor 1016 (4) [2C]	A	1.00	1.43	2.077158E+08	2.97E+08		43.0	20	*
Aroclor 1016 (5)	A	1.00	0.859	1.541774E+08	1.324E+08		-14.1	20	
Aroclor 1016 (5) [2C]	A	1.00	1.48	1.992778E+08	2.95E+08		48.0	20	*
Aroclor 1016 [2C]	A	1.00	1.47	1.992316E+08	2.9546E+08		48.3	20	*
Aroclor 1260	A	1.00	0.974	4.179285E+08	4.0604E+08		-2.8	20	
Aroclor 1260 (1)	A	1.00	0.894	3.380425E+08	3.023E+08		-10.6	20	
Aroclor 1260 (1) [2C]	A	1.00	1.46	4.058588E+08	5.931E+08		46.1	20	*
Aroclor 1260 (2)	A	1.00	0.864	5.12915E+08	4.431E+08		-13.6	20	
Aroclor 1260 (2) [2C]	A	1.00	1.68	4.73798E+08	7.983E+08		68.5	20	*
Aroclor 1260 (3)	A	1.00	1.04	4.712303E+08	4.894E+08		3.9	20	
Aroclor 1260 (3) [2C]	A	1.00	1.53	5.555795E+08	8.494E+08		52.9	20	*
Aroclor 1260 (4)	A	1.00	1.04	2.272768E+08	2.359E+08		3.8	20	
Aroclor 1260 (4) [2C]	A	1.00	1.66	2.848594E+08	4.725E+08		65.9	20	*
Aroclor 1260 (5)	A	1.00	1.04	5.40178E+08	5.595E+08		3.6	20	
Aroclor 1260 (5) [2C]	A	1.00	1.82	6.703154E+08	1.2168E+09		81.5	20	*
Aroclor 1260 [2C]	A	1.00	1.63	4.780822E+08	7.8602E+08		64.4	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)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063455.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063455.D\ECD2B.CH
Acq On : 2-10-2020 2:39:22 PM Operator: SR
Sample : SEQ-CCV2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 14:54 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	2.63	2.05	1130.0E6	2039.2E6	0.173	0.245	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		86.50%	122.50%	
45) S	Decachlorobiphen	8.77	7.58f	753.7E6	1381.7E6	0.188	0.255	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		94.00%	127.50%	
	Target Compounds							
5) T	1016 1	2.98	2.36	96189844	195.9E6	0.769	1.352	#
6) T	1016 2	3.50	2.78	153.0E6	293.2E6	0.894	1.490	#
7) T	1016 3	3.88	3.07	220.3E6	396.2E6	1.066	1.601	#
8) T	1016 4	3.98	3.19f	160.3E6	297.0E6	0.955	1.430	#
9) T	1016 5	4.32	3.46	132.4E6	295.0E6	0.859	1.480	#
30) T	1260 1	5.65	4.63f	302.3E6	593.1E6	0.894	1.461	#
31) T	1260 2	5.99	4.87f	443.1E6	798.3E6	0.864	1.685	#
32) T	1260 3	6.32	5.24f	489.4E6	849.4E6	1.038	1.529	m#
33) T	1260 4	6.43	5.31f	235.9E6	472.5E6	1.038	1.659	m#
34) T	1260 5	7.10	5.93f	559.5E6	1216.8E6	1.036	1.815	#

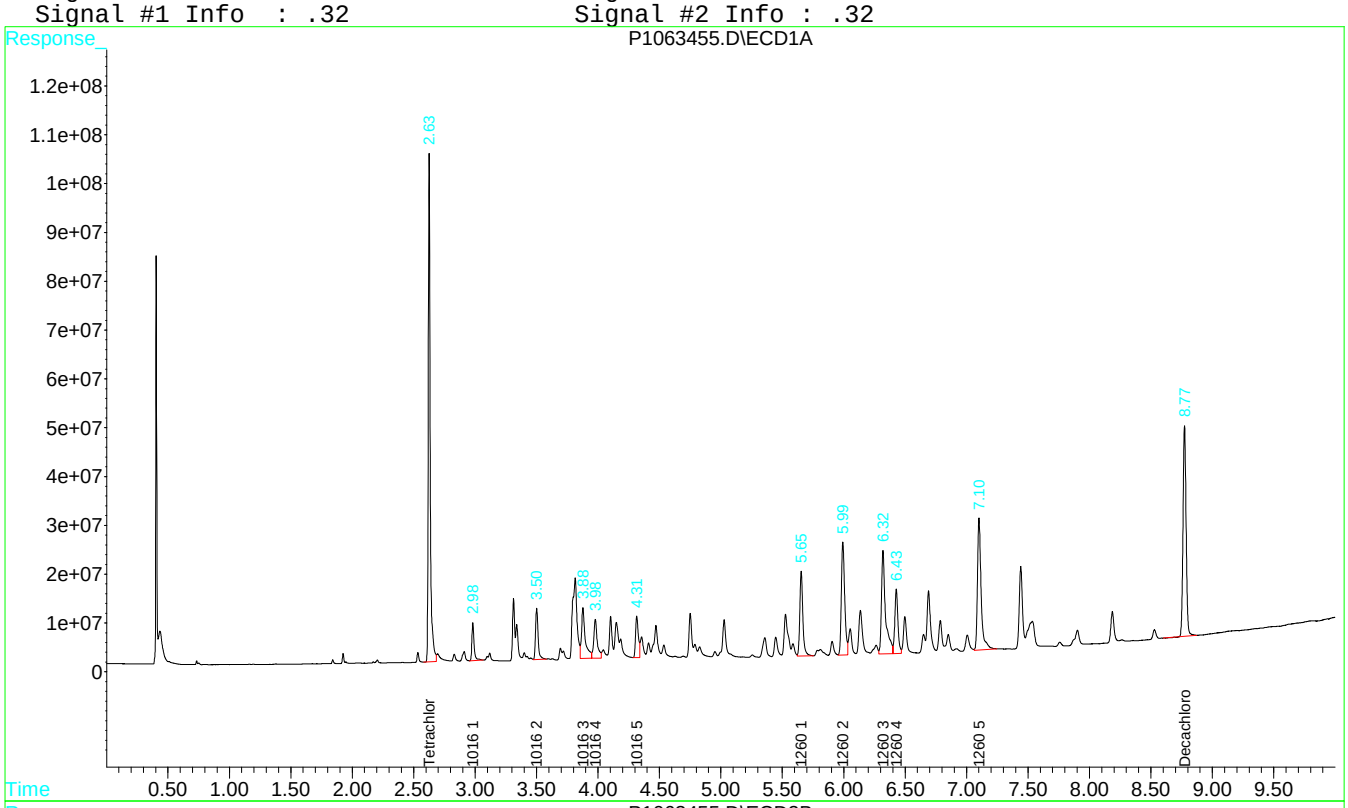
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063455.D P1051519.M Mon Feb 10 14:55:26 2020 Page 1

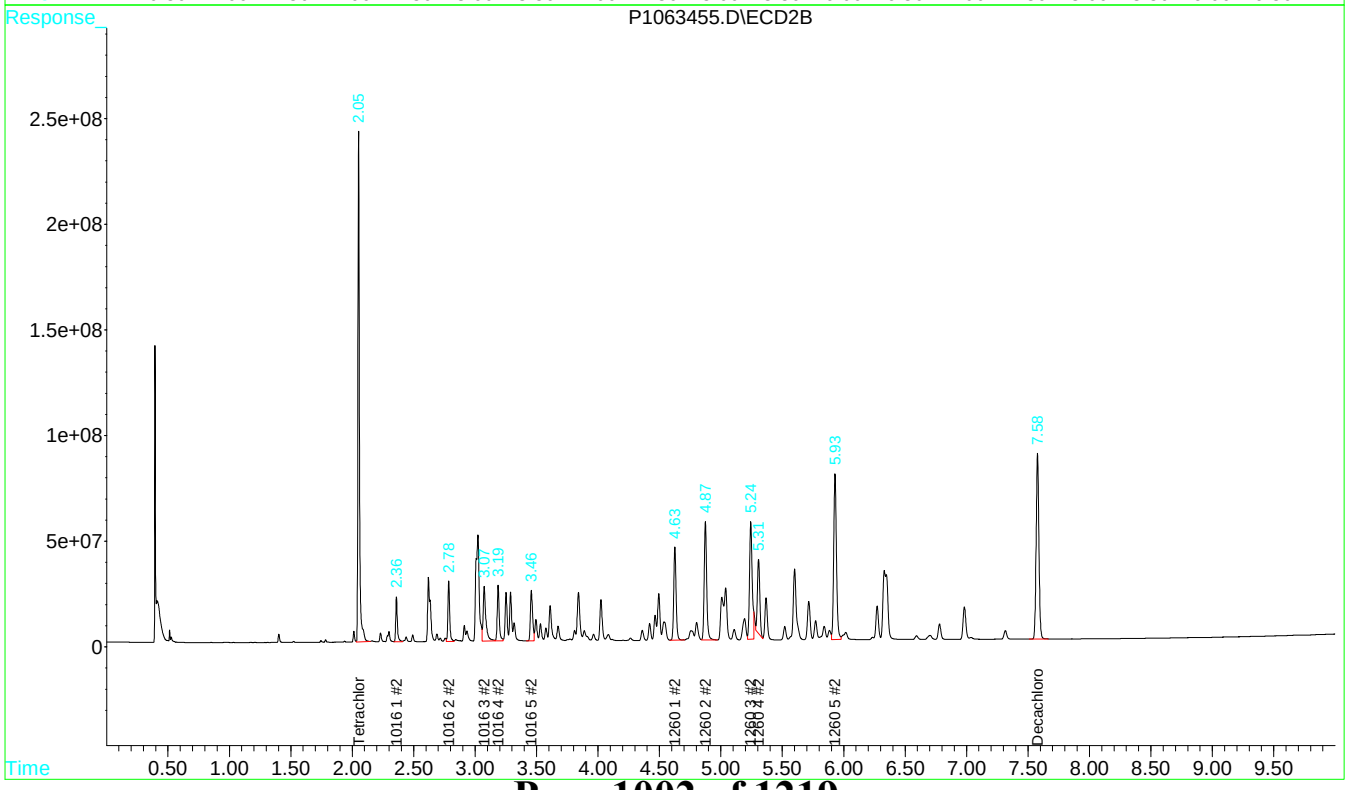
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063455.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063455.D\ECD2B.CH
Acq On : 2-10-2020 2:39:22 PM Operator: SR
Sample : SEQ-CCV2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 14:54 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063476.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B1025	Injection Date:	02/10/20
Lab Sample ID:	Y0B1025-CCV3	Injection Time:	19:38

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	1.00	1.650183E+08	1.6874E+08		2.3	20	
Aroclor 1016 (1)	A	1.00	0.821	1.251642E+08	1.027E+08		-17.9	20	
Aroclor 1016 (1) [2C]	A	1.00	1.40	1.448888E+08	2.029E+08		40.0	20	*
Aroclor 1016 (2)	A	1.00	0.946	1.711105E+08	1.619E+08		-5.4	20	
Aroclor 1016 (2) [2C]	A	1.00	1.54	1.968172E+08	3.022E+08		53.5	20	*
Aroclor 1016 (3)	A	1.00	1.22	2.067802E+08	2.534E+08		22.5	20	*
Aroclor 1016 (3) [2C]	A	1.00	1.66	2.474585E+08	4.108E+08		66.0	20	*
Aroclor 1016 (4)	A	1.00	1.07	1.678594E+08	1.801E+08		7.3	20	
Aroclor 1016 (4) [2C]	A	1.00	1.51	2.077158E+08	3.13E+08		50.7	20	*
Aroclor 1016 (5)	A	1.00	0.944	1.541774E+08	1.456E+08		-5.6	20	
Aroclor 1016 (5) [2C]	A	1.00	1.55	1.992778E+08	3.082E+08		54.7	20	*
Aroclor 1016 [2C]	A	1.00	1.53	1.992316E+08	3.0742E+08		54.3	20	*
Aroclor 1260	A	1.00	1.04	4.179285E+08	4.3324E+08		3.7	20	
Aroclor 1260 (1)	A	1.00	0.979	3.380425E+08	3.308E+08		-2.1	20	
Aroclor 1260 (1) [2C]	A	1.00	1.56	4.058588E+08	6.332E+08		56.0	20	*
Aroclor 1260 (2)	A	1.00	0.971	5.12915E+08	4.983E+08		-2.8	20	
Aroclor 1260 (2) [2C]	A	1.00	1.83	4.73798E+08	8.689E+08		83.4	20	*
Aroclor 1260 (3)	A	1.00	0.992	4.712303E+08	4.675E+08		-0.8	20	
Aroclor 1260 (3) [2C]	A	1.00	1.70	5.555795E+08	9.469E+08		70.4	20	*
Aroclor 1260 (4)	A	1.00	1.15	2.272768E+08	2.618E+08		15.2	20	
Aroclor 1260 (4) [2C]	A	1.00	1.92	2.848594E+08	5.483E+08		92.5	20	*
Aroclor 1260 (5)	A	1.00	1.12	5.40178E+08	6.078E+08		12.5	20	
Aroclor 1260 (5) [2C]	A	1.00	2.04	6.703154E+08	1.3712E+09		105	20	*
Aroclor 1260 [2C]	A	1.00	1.81	4.780822E+08	8.737E+08		82.8	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)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063476.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063476.D\ECD2B.CH
Acq On : 2-10-2020 7:38:26 PM Operator: SR
Sample : SEQ-CCV3 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:38 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	2.63	2.05	1170.6E6	2076.8E6	0.179	0.249	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		89.50%	124.50%	
45) S	Decachlorobiphen	8.77	0.00	837.8E6	0	0.209	N.D.	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		104.50%	0.00%	#
	Target Compounds							
5) T	1016 1	2.98	2.36	102.7E6	202.9E6	0.821	1.400	#
6) T	1016 2	3.50	2.79	161.9E6	302.2E6	0.946	1.535	#
7) T	1016 3	3.88	3.07	253.4E6	410.8E6	1.225	1.660	#
8) T	1016 4	3.98	3.19f	180.1E6	313.0E6	1.073	1.507	#
9) T	1016 5	4.32	3.46	145.6E6	308.2E6	0.944	1.547	#
30) T	1260 1	5.65	4.63f	330.8E6	633.2E6	0.979	1.560	#
31) T	1260 2	5.99	4.87f	498.3E6	868.9E6	0.971	1.834	#
32) T	1260 3	6.32	5.24f	467.5E6	946.9E6	0.992m	1.704m	#
33) T	1260 4	6.43	5.31f	261.8E6	548.3E6	1.152	1.925m	#
34) T	1260 5	7.10	5.93f	607.8E6	1371.2E6	1.125m	2.045	#

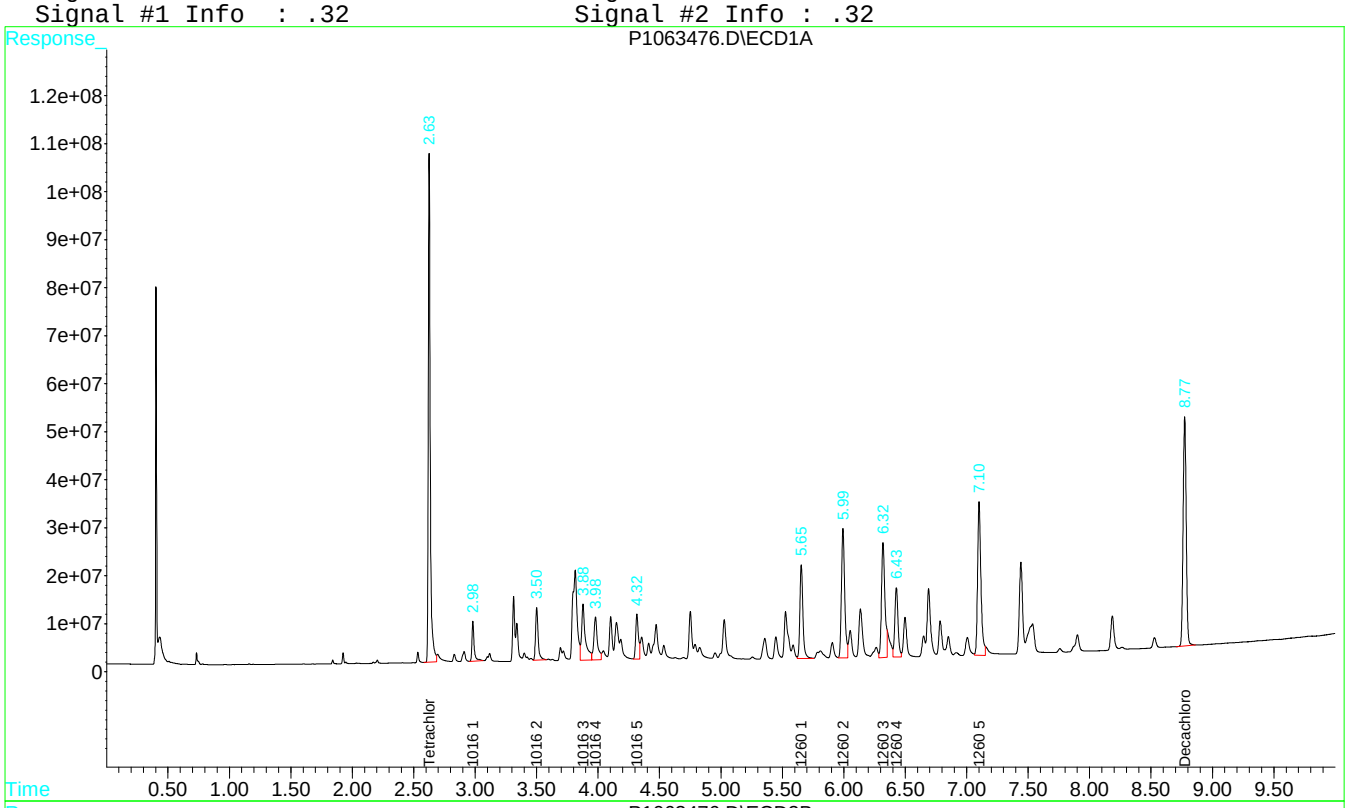
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063476.D P1051519.M Tue Feb 11 09:50:16 2020 Page 1

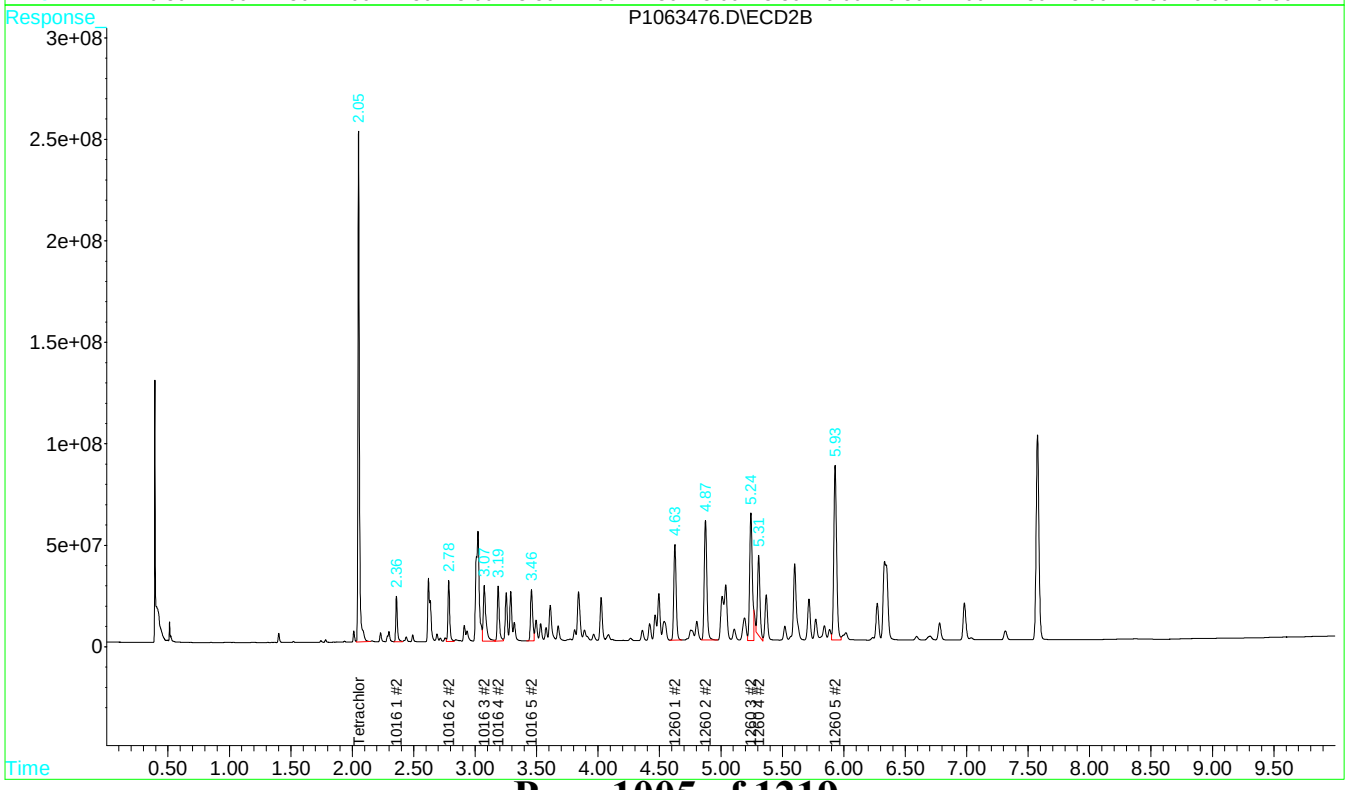
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063476.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063476.D\ECD2B.CH
Acq On : 2-10-2020 7:38:26 PM Operator: SR
Sample : SEQ-CCV3 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:38 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Instrument ID:	ECD#1	Calibration:	YE90020
Lab File ID:	P1063497.D	Calibration Date:	05/16/19 15:58
Sequence:	Y0B1025	Injection Date:	02/11/20
Lab Sample ID:	Y0B1025-CCV4	Injection Time:	00:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor 1016	A	1.00	0.969	1.650183E+08	1.6292E+08		-1.3	20	
Aroclor 1016 (1)	A	1.00	0.832	1.251642E+08	1.041E+08		-16.8	20	
Aroclor 1016 (1) [2C]	A	1.00	1.40	1.448888E+08	2.031E+08		40.2	20	*
Aroclor 1016 (2)	A	1.00	0.923	1.711105E+08	1.58E+08		-7.7	20	
Aroclor 1016 (2) [2C]	A	1.00	1.52	1.968172E+08	2.994E+08		52.1	20	*
Aroclor 1016 (3)	A	1.00	1.18	2.067802E+08	2.442E+08		18.1	20	
Aroclor 1016 (3) [2C]	A	1.00	1.67	2.474585E+08	4.136E+08		67.1	20	*
Aroclor 1016 (4)	A	1.00	1.03	1.678594E+08	1.727E+08		2.9	20	
Aroclor 1016 (4) [2C]	A	1.00	1.53	2.077158E+08	3.176E+08		52.9	20	*
Aroclor 1016 (5)	A	1.00	0.880	1.541774E+08	1.356E+08		-12.0	20	
Aroclor 1016 (5) [2C]	A	1.00	1.57	1.992778E+08	3.135E+08		57.3	20	*
Aroclor 1016 [2C]	A	1.00	1.54	1.992316E+08	3.0944E+08		55.3	20	*
Aroclor 1260	A	1.00	1.01	4.179285E+08	4.2302E+08		1.2	20	
Aroclor 1260 (1)	A	1.00	0.905	3.380425E+08	3.06E+08		-9.5	20	
Aroclor 1260 (1) [2C]	A	1.00	1.51	4.058588E+08	6.138E+08		51.2	20	*
Aroclor 1260 (2)	A	1.00	0.903	5.12915E+08	4.631E+08		-9.7	20	
Aroclor 1260 (2) [2C]	A	1.00	1.75	4.73798E+08	8.313E+08		75.5	20	*
Aroclor 1260 (3)	A	1.00	1.09	4.712303E+08	5.137E+08		9.0	20	
Aroclor 1260 (3) [2C]	A	1.00	1.53	5.555795E+08	8.483E+08		52.7	20	*
Aroclor 1260 (4)	A	1.00	1.06	2.272768E+08	2.41E+08		6.0	20	
Aroclor 1260 (4) [2C]	A	1.00	1.69	2.848594E+08	4.802E+08		68.6	20	*
Aroclor 1260 (5)	A	1.00	1.10	5.40178E+08	5.913E+08		9.5	20	
Aroclor 1260 (5) [2C]	A	1.00	1.89	6.703154E+08	1.267E+09		89.0	20	*
Aroclor 1260 [2C]	A	1.00	1.67	4.780822E+08	8.0812E+08		69.0	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)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063497.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063497.D\ECD2B.CH
Acq On : 2-11-2020 12:23:49 AM Operator: SR
Sample : SEQ-CCV4 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:27 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	2.63	2.05	1168.0E6	2138.9E6	0.178	0.257	#
Spiked Amount	0.200	Range	30 - 150	Recovery	=	89.00%	128.50%	
45) S	Decachlorobiphen	8.77	7.58f	822.6E6	1507.9E6	0.205	0.278	#
Spiked Amount	0.200	Range	30 - 150	Recovery	=	102.50%	139.00%	
	Target Compounds							
5) T	1016 1	2.98	2.36	104.1E6	203.1E6	0.832	1.402	#
6) T	1016 2	3.50	2.79	158.0E6	299.4E6	0.923	1.521	#
7) T	1016 3	3.88	3.07	244.2E6	413.6E6	1.181	1.671	#
8) T	1016 4	3.98	3.19f	172.7E6	317.6E6	1.029	1.529	#
9) T	1016 5	4.32	3.46	135.6E6	313.5E6	0.880	1.573	#
30) T	1260 1	5.65	4.63f	306.0E6	613.8E6	0.905	1.512	#
31) T	1260 2	5.99	4.87f	463.1E6	831.3E6	0.903	1.754	#
32) T	1260 3	6.32	5.24f	513.7E6	848.3E6	1.090	1.527	m#
33) T	1260 4	6.43	5.31f	241.0E6	480.2E6	1.060	1.686	m#
34) T	1260 5	7.10	5.93f	591.3E6	1267.0E6	1.095	1.890	#

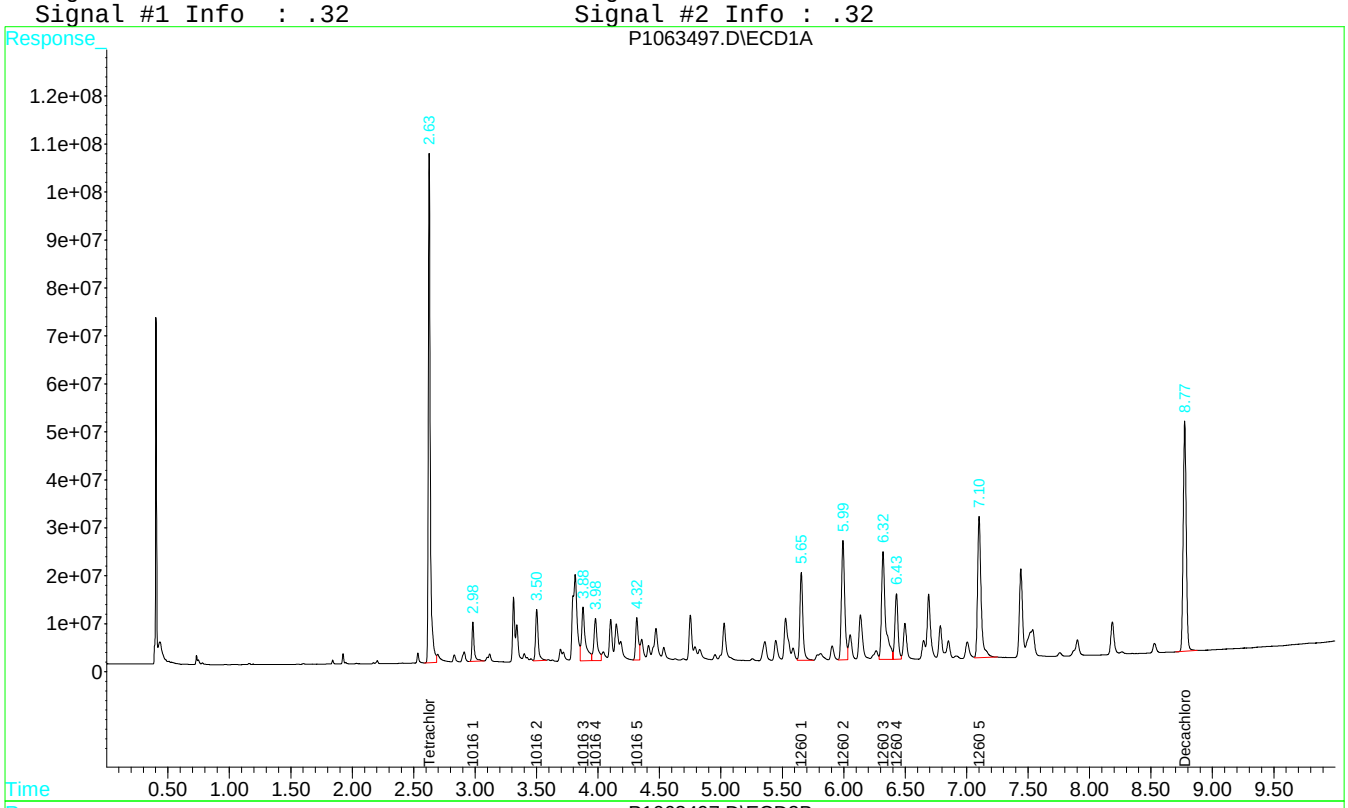
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063497.D P1051519.M Tue Feb 11 09:50:46 2020 Page 1

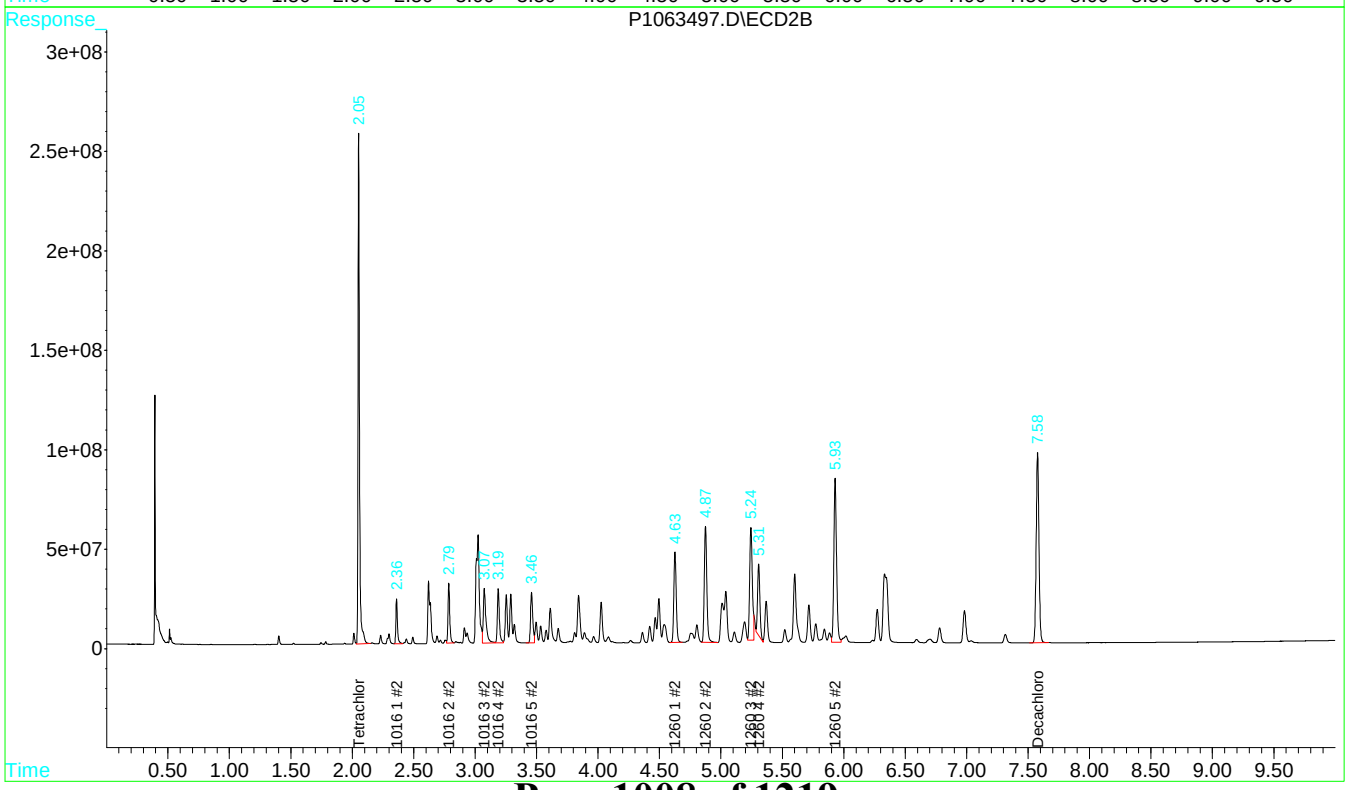
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063497.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063497.D\ECD2B.CH
Acq On : 2-11-2020 12:23:49 AM Operator: SR
Sample : SEQ-CCV4 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:27 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: **Roux Associates**
SDG: **20B0093**
Project: **3475.00014000 Lafayette**

Instrument ID: ECD#1 Col 1
Calibration: YE90020
Sequence: Y0B0739
Lab Number: Y0B0739-ARC1

Date(s) Analyzed: 02/07/2020

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1254	2.000	1	04.11	04.06	04.16	131750000
		2	04.76	04.71	04.81	243650000
		3	05.45	05.40	05.50	431450000
		4	05.81	05.76	05.86	305800000
		5	06.33	06.28	06.38	445550000

Client: **Roux Associates**
SDG: **20B0093**
Project: **3475.00014000 Lafayette**

Instrument ID: ECD#1 Col 2
Calibration: YE90020
Sequence: Y0B0739
Lab Number: Y0B0739-ARC1

Date(s) Analyzed: 02/07/2020

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1254	2.000	1	03.25	03.20	03.30	239000000
		2	03.84	03.79	03.89	627700000
		3	04.46	04.41	04.51	771600000
		4	04.75	04.70	04.80	577900000
		5	05.24	05.19	05.29	639850000

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063386.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063386.D\ECD2B.CH
Acq On : 2-7-2020 11:20:19 AM Operator: SR
Sample : SEQ-ARC1 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 7 12:46 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.05	1549.1E6	2675.7E6	0.237	0.321 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =	118.50%	160.50%#	
45) S	Decachlorobiphen	8.79	7.58f	1132.6E6	2081.7E6	0.283	0.383 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =	141.50%	191.50%#	
	Target Compounds						
25) T	1254 1	4.11	3.25f	263.5E6	478.0E6	2.268	3.404m#
26) T	1254 2	4.76	3.84f	487.3E6	1255.4E6	2.256	3.571m#
27) T	1254 3	5.45	4.46f	862.9E6	1543.2E6	2.429	3.566m#
28) T	1254 4	5.81	4.75f	611.6E6	1155.8E6	2.289	3.581m#
29) T	1254 5	6.33	5.24f	891.1E6	1279.7E6	3.216	3.628m

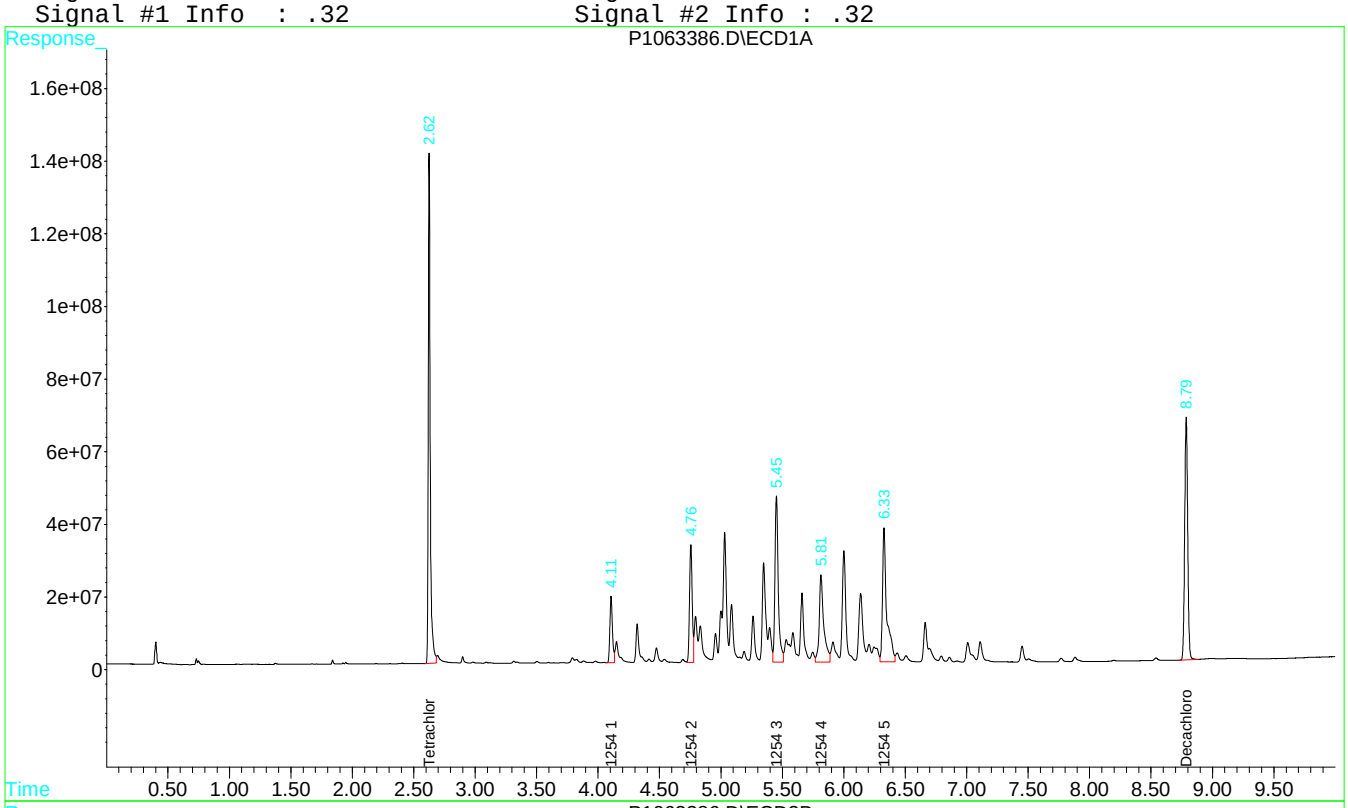
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063386.D P1051519.M Fri Feb 07 17:00:44 2020 Page 1

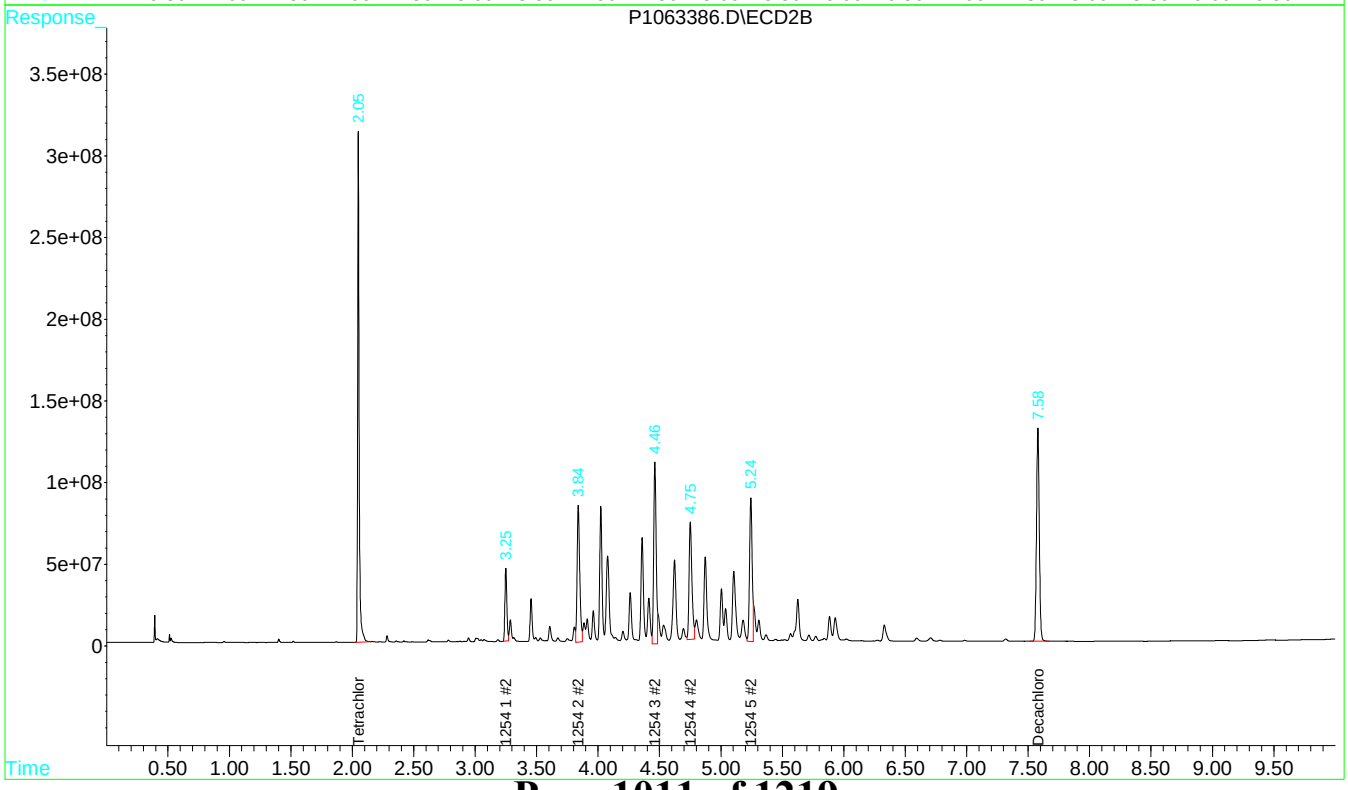
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063386.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063386.D\ECD2B.CH
Acq On : 2-7-2020 11:20:19 AM Operator: SR
Sample : SEQ-ARC1 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 7 12:46 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: **Roux Associates**
SDG: **20B0093**
Project: **3475.00014000 Lafayette**

Instrument ID: ECD#1 Col 1
Calibration: YE90020
Sequence: Y0B1025
Lab Number: Y0B1025-ARC1

Date(s) Analyzed: 02/10/2020

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1254	2.000	1	04.10	04.05	04.15	114700000
		2	04.75	04.70	04.80	209000000
		3	05.45	05.40	05.50	350150000
		4	05.81	05.76	05.86	221850000
		5	06.32	06.27	06.37	302250000

Client: **Roux Associates**
SDG: **20B0093**
Project: **3475.00014000 Lafayette**

Instrument ID: ECD#1 Col 2
Calibration: YE90020
Sequence: Y0B1025
Lab Number: Y0B1025-ARC1

Date(s) Analyzed: 02/10/2020

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1254	2.000	1	03.25	03.20	03.30	225100000
		2	03.84	03.79	03.89	580250000
		3	04.46	04.41	04.51	696100000
		4	04.75	04.70	04.80	532350000
		5	05.24	05.19	05.29	587050000

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063447.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063447.D\ECD2B.CH
Acq On : 2-10-2020 12:50:21 PM Operator: SR
Sample : SEQ-ARC1 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 13:10 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.05	1432.6E6	2543.1E6	0.219	0.305 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =	109.50%	152.50%#	
45) S	Decachlorobiphen	8.77	7.58f	982.6E6	1723.2E6	0.245	0.317 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =	122.50%	158.50%#	
	Target Compounds						
25) T	1254 1	4.10	3.25f	229.4E6	450.2E6	1.974	3.205m#
26) T	1254 2	4.75	3.84f	418.0E6	1160.5E6	1.935	3.301m#
27) T	1254 3	5.45	4.46f	700.3E6	1392.2E6	1.972	3.217m#
28) T	1254 4	5.81	4.75f	443.7E6	1064.7E6	1.660	3.299m#
29) T	1254 5	6.32	5.24f	604.5E6	1174.1E6	2.181	3.328m#

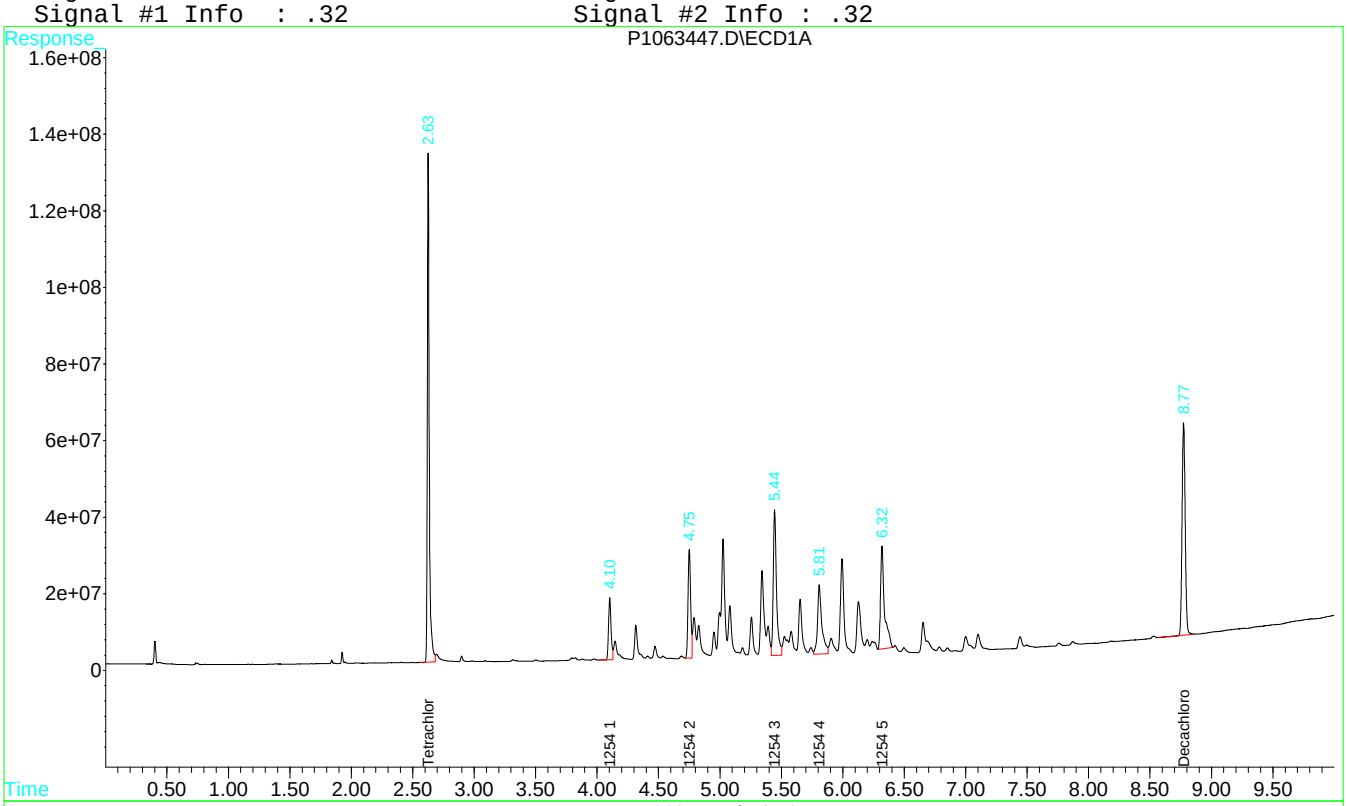
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063447.D P1051519.M Mon Feb 10 14:55:14 2020 Page 1

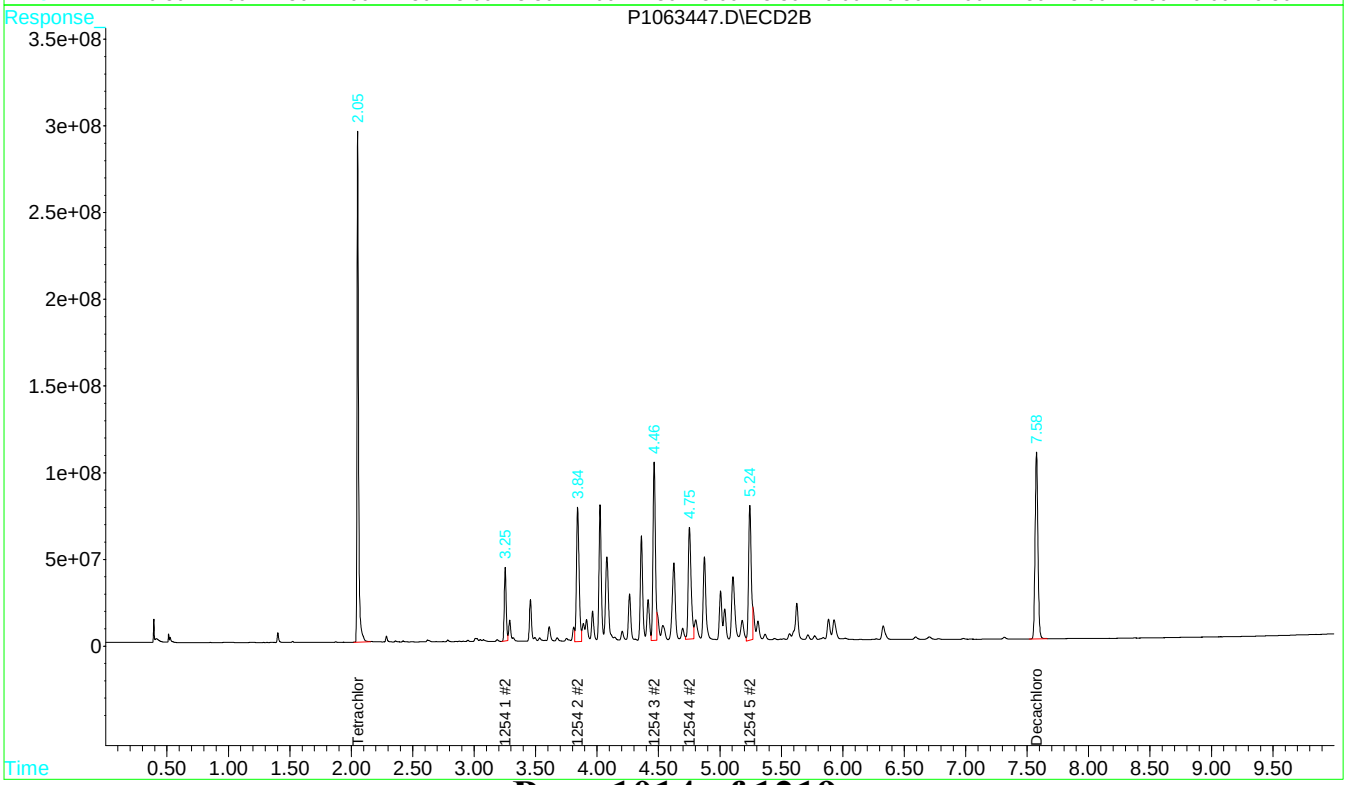
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063447.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063447.D\ECD2B.CH
Acq On : 2-10-2020 12:50:21 PM Operator: SR
Sample : SEQ-ARC1 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 13:10 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





AROCLOR INITIAL CALIBRATION (SINGLE POINT)

Client: **Roux Associates**
SDG: **20B0093**
Project: **3475.00014000 Lafayette**

Instrument ID: ECD#1 Col 1
Calibration: YE90020
Sequence: Y9E1632
Lab Number: Y9E1632-ARC1

Date(s) Analyzed: 05/15/2019

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1254	2.000	1	04.11	04.06	04.16	116200000
		2	04.76	04.71	04.81	216050000
		3	05.45	05.40	05.50	355200000
		4	05.81	05.76	05.86	267250000
		5	06.33	06.28	06.38	277100000

Client: **Roux Associates**
SDG: **20B0093**
Project: **3475.00014000 Lafayette**

Instrument ID: ECD#1 Col 2
Calibration: YE90020
Sequence: Y9E1632
Lab Number: Y9E1632-ARC1

Date(s) Analyzed: 05/15/2019

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor 1254	2.000	1	03.28	03.23	03.33	140450000
		2	03.88	03.83	03.93	351600000
		3	04.50	04.45	04.55	432700000
		4	04.78	04.73	04.83	322750000
		5	05.28	05.23	05.33	352700000

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049351.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049351.D\ECD2B.CH
Acq On : 5-15-2019 8:08:38 PM Operator: SR
Sample : SEQ-ARC2 Inst : ECD#1
Misc : QBP1051519A A-1254 2.0 ppm CAL Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jan 8 14:21 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 13:42:26 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.07	1261.3E6	1608.5E6	0.193	0.193
	Spiked Amount 0.200	Range 30 - 150		Recovery =		96.50%	96.50%
45) S	Decachlorobiphen	8.78	7.63	784.5E6	1052.8E6	0.196	0.194
	Spiked Amount 0.200	Range 30 - 150		Recovery =		98.00%	97.00%
	Target Compounds						
25) T	1254 1	4.11	3.28	232.4E6	280.9E6	2.000	2.000
26) T	1254 2	4.76	3.88	432.1E6	703.2E6	2.000	2.000
27) T	1254 3	5.45	4.50	710.4E6	865.4E6	2.000	2.000
28) T	1254 4	5.81	4.78	534.5E6	645.5E6	2.000	2.000
29) T	1254 5	6.33	5.28	554.2E6	705.4E6	2.000	2.000m

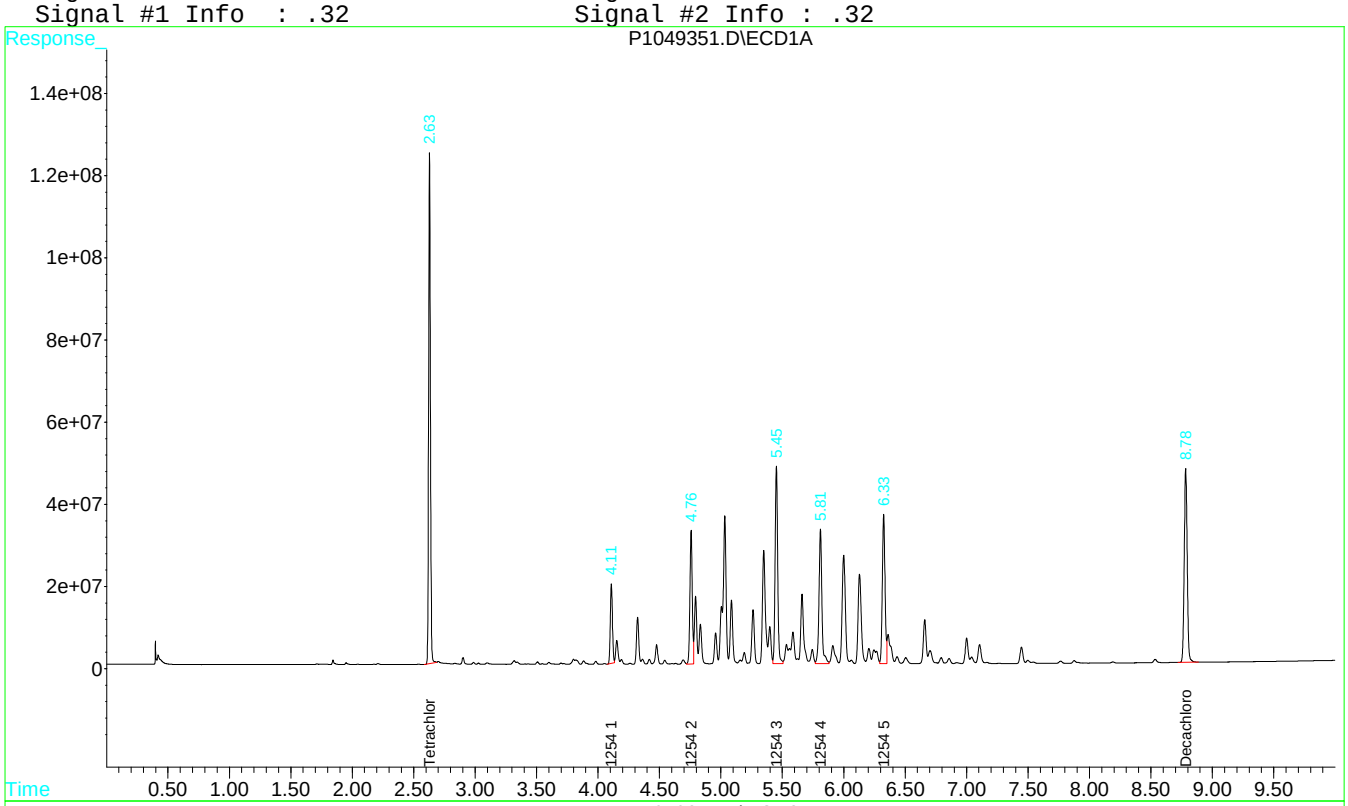
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1049351.D P1051519.M Fri Jan 10 13:46:21 2020 Page 1

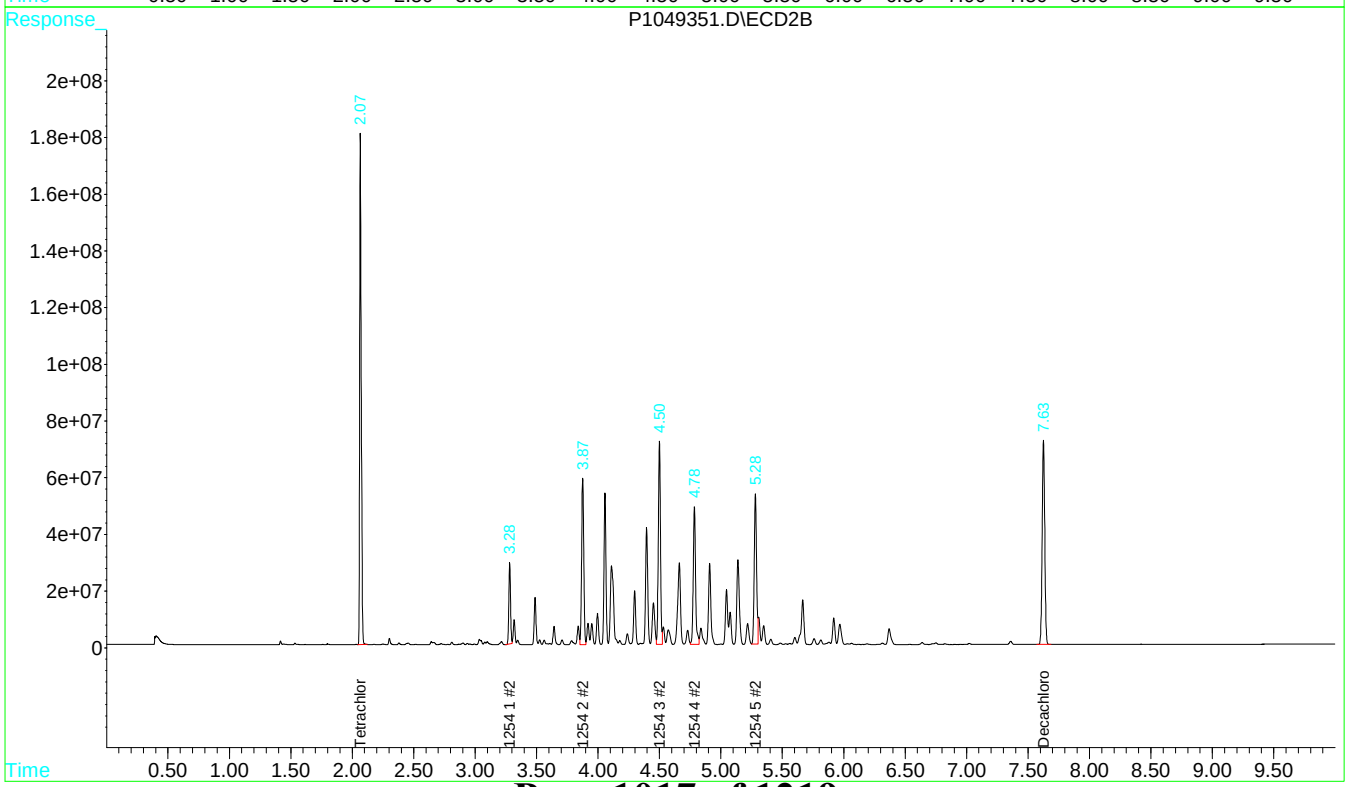
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\051519A\P1049351.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\051519A\P1049351.D\ECD2B.CH
Acq On : 5-15-2019 8:08:38 PM Operator: SR
Sample : SEQ-ARC2 Inst : ECD#1
Misc : QBP1051519A A-1254 2.0 ppm CAL Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jan 8 14:21 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu May 16 13:42:26 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





METHOD BLANK RAW DATA

SDG: 20B0093
CLASS: ARO
METHOD: EPA 8082A

FORM I

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00283-BLK2	File ID:	P1063422.D
Prepared:	02/07/20 07:48	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/07/20 19:32	Instrument:	ECD#1		
Batch:	BB00283	Sequence:	Y0B0739	Calibration:	YE90020

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
12674-11-2	Aroclor 1016	0.0166	U
12674-11-2	Aroclor 1016 [2C]	0.0166	U
11104-28-2	Aroclor 1221	0.0166	U
11104-28-2	Aroclor 1221 [2C]	0.0166	U
11141-16-5	Aroclor 1232	0.0166	U
11141-16-5	Aroclor 1232 [2C]	0.0166	U
53469-21-9	Aroclor 1242	0.0166	U
53469-21-9	Aroclor 1242 [2C]	0.0166	U
12672-29-6	Aroclor 1248	0.0166	U
12672-29-6	Aroclor 1248 [2C]	0.0166	U
11097-69-1	Aroclor 1254	0.0166	U
11097-69-1	Aroclor 1254 [2C]	0.0166	U
11096-82-5	Aroclor 1260	0.0166	U
11096-82-5	Aroclor 1260 [2C]	0.0166	U
1336-36-3	Total PCBs	0.0166	U
1336-36-3	Total PCBs [2C]	0.0166	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0664	0.0641	96.5	30 - 140	
Tetrachloro-m-xylene [2C]	0.0664	0.0850	128	30 - 140	
Decachlorobiphenyl	0.0664	0.0684	103	30 - 140	
Decachlorobiphenyl [2C]	0.0664	0.0904	136	30 - 140	

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063422.D\ECD1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063422.D\ECD2B.CH
Acq On : 2-7-2020 7:32:15 PM Operator: SR
Sample : BB00283-BLK2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 10:35 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	2.63	2.05	1259.9E6	2135.1E6	0.193	0.256	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		96.50%	128.00%	
45)	S Decachlorobiphen	8.78	7.58f	826.3E6	1474.6E6	0.206	0.272	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		103.00%	136.00%	
	Target Compounds							

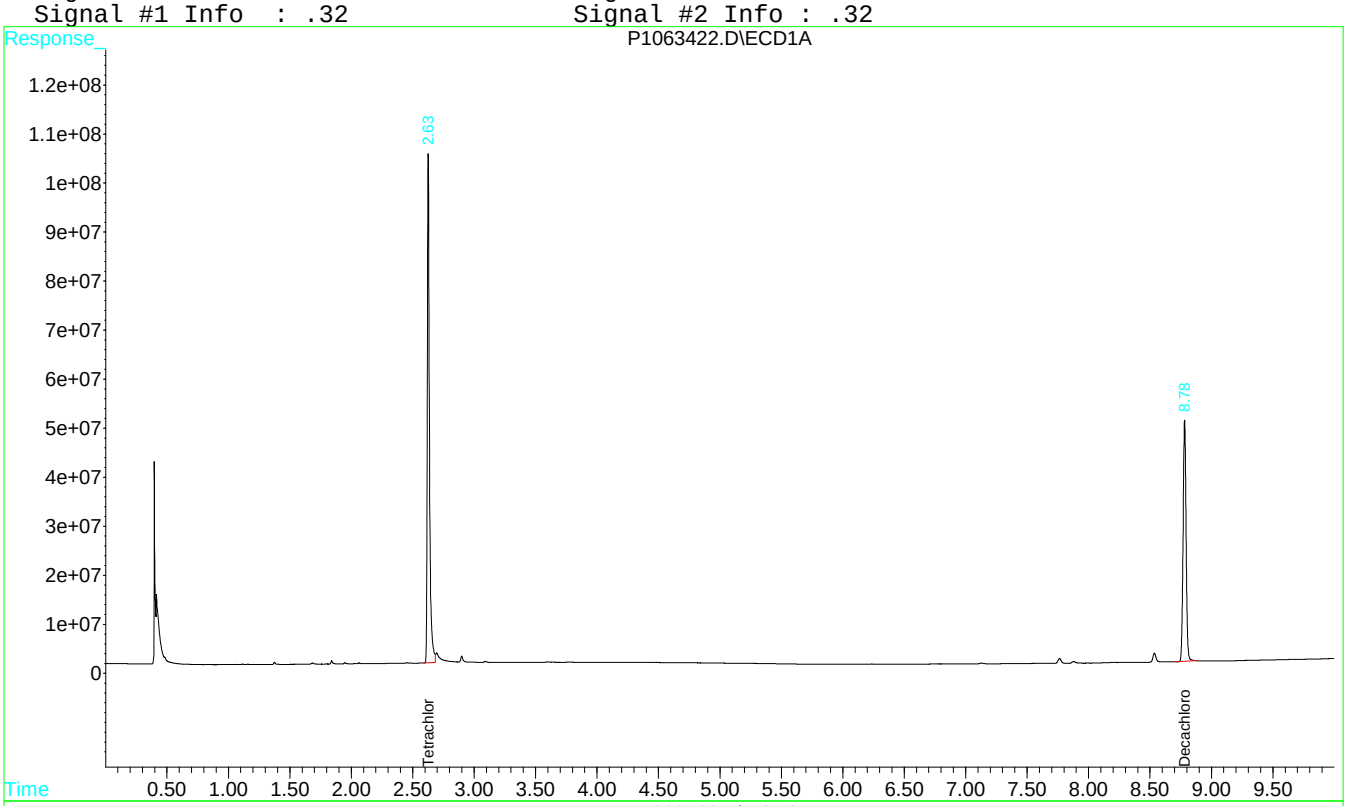
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063422.D P1051519.M Mon Feb 10 11:05:50 2020 Page 1

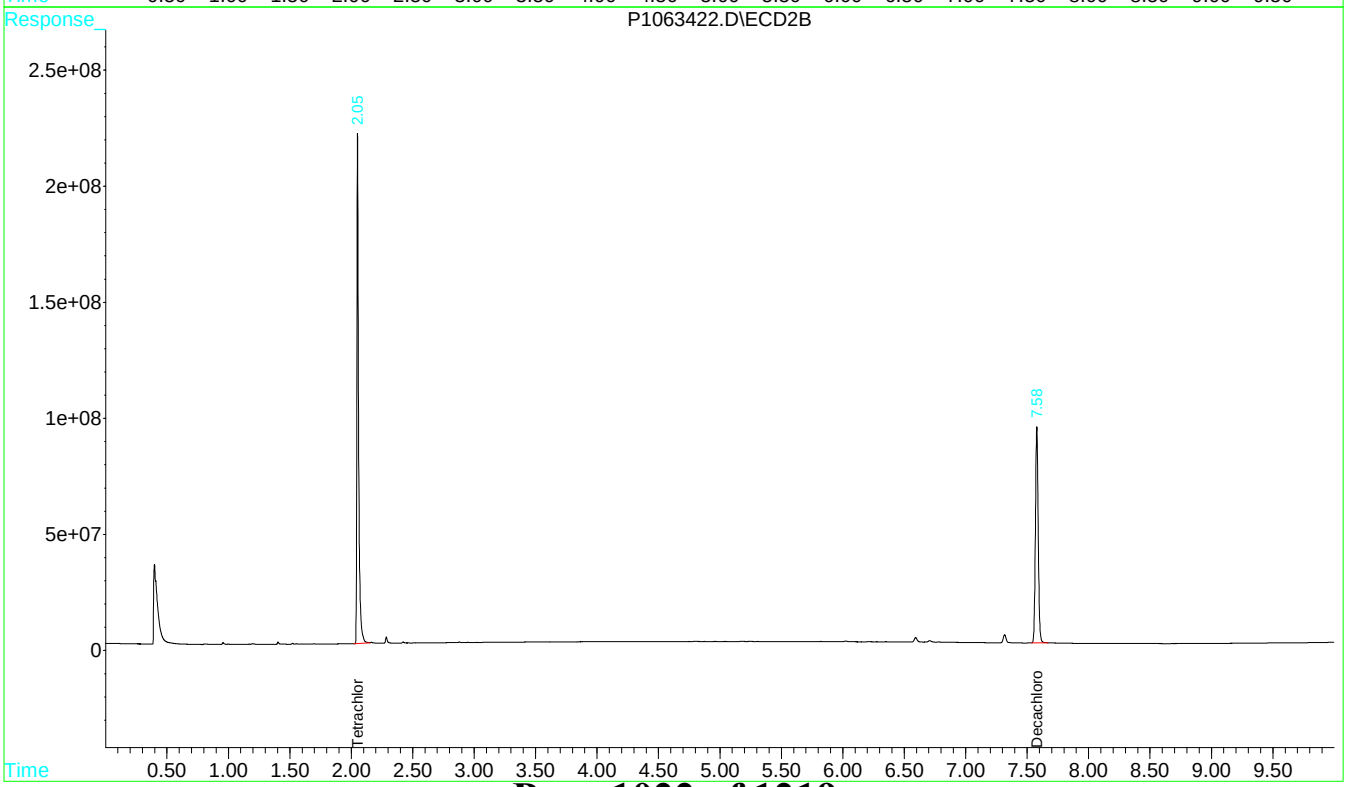
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063422.D\ECD1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063422.D\ECD2B.CH
Acq On : 2-7-2020 7:32:15 PM Operator: SR
Sample : BB00283-BLK2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 10:35 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





METHOD BLANK RAW DATA

SDG: 20B0093
CLASS: ARO
METHOD: EPA 8082A

FORM I

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00362-BLK2	File ID:	P1063474.D
Prepared:	02/10/20 07:17	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Analyzed:	02/10/20 19:11	Instrument:	ECD#1		
Batch:	BB00362	Sequence:	Y0B1025	Calibration:	YE90020

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
12674-11-2	Aroclor 1016	0.0166	U
12674-11-2	Aroclor 1016 [2C]	0.0166	U
11104-28-2	Aroclor 1221	0.0166	U
11104-28-2	Aroclor 1221 [2C]	0.0166	U
11141-16-5	Aroclor 1232	0.0166	U
11141-16-5	Aroclor 1232 [2C]	0.0166	U
53469-21-9	Aroclor 1242	0.0166	U
53469-21-9	Aroclor 1242 [2C]	0.0166	U
12672-29-6	Aroclor 1248	0.0166	U
12672-29-6	Aroclor 1248 [2C]	0.0166	U
11097-69-1	Aroclor 1254	0.0166	U
11097-69-1	Aroclor 1254 [2C]	0.0166	U
11096-82-5	Aroclor 1260	0.0166	U
11096-82-5	Aroclor 1260 [2C]	0.0166	U
1336-36-3	Total PCBs	0.0166	U
1336-36-3	Total PCBs [2C]	0.0166	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0664	0.0608	91.5	30 - 140	
Tetrachloro-m-xylene [2C]	0.0664	0.0854	128	30 - 140	
Decachlorobiphenyl	0.0664	0.0581	87.5	30 - 140	
Decachlorobiphenyl [2C]	0.0664	0.0817	123	30 - 140	

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063474.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063474.D\ECD2B.CH
Acq On : 2-10-2020 7:11:03 PM Operator: SR
Sample : BB00362-BLK2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:37 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachloro-m-xy	2.63	2.05	1194.3E6	2139.5E6	0.183	0.257 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		91.50%	128.50%
45) S Decachlorobiphen	8.77	7.58f	701.1E6	1337.2E6	0.175	0.246 #
Spiked Amount 0.200	Range 30 - 150		Recovery =		87.50%	123.00%
Target Compounds						

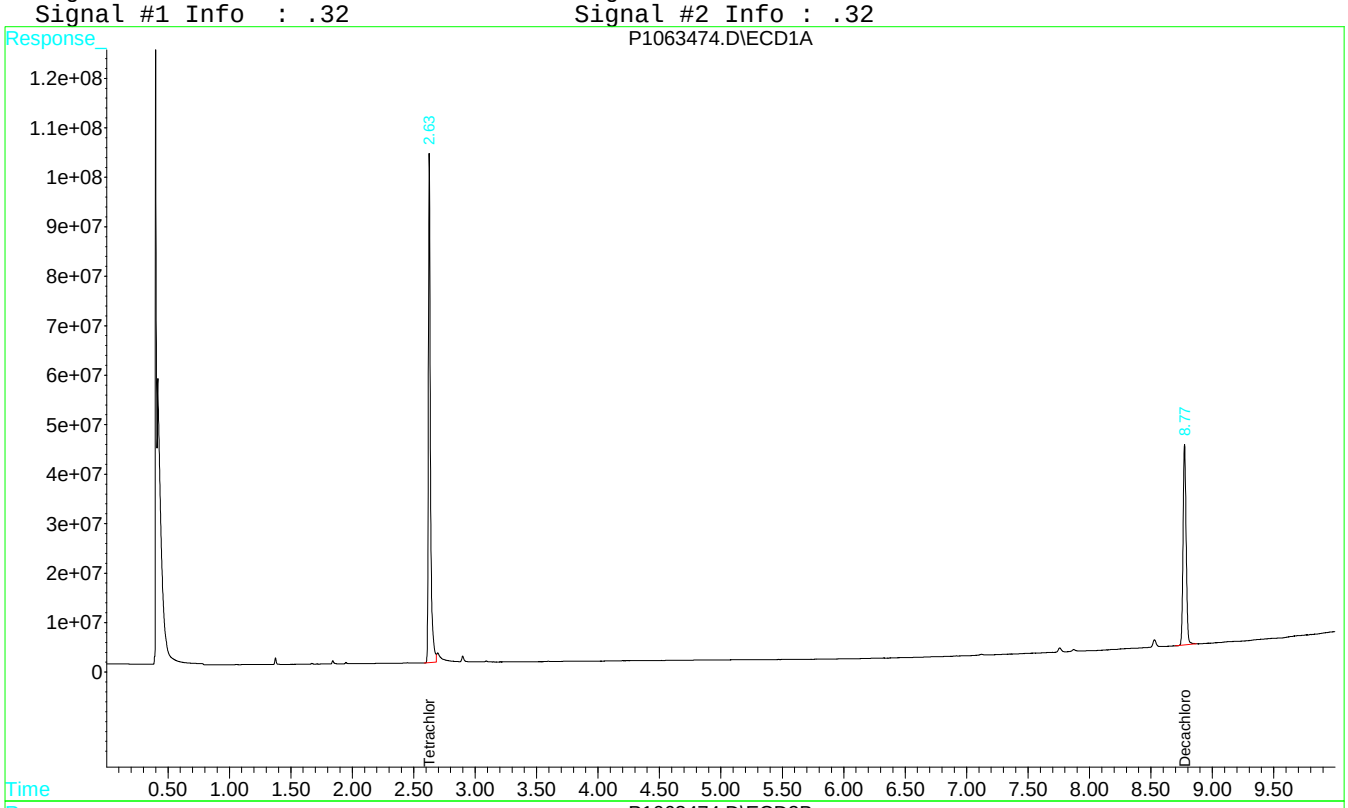
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063474.D P1051519.M Tue Feb 11 09:50:13 2020 Page 1

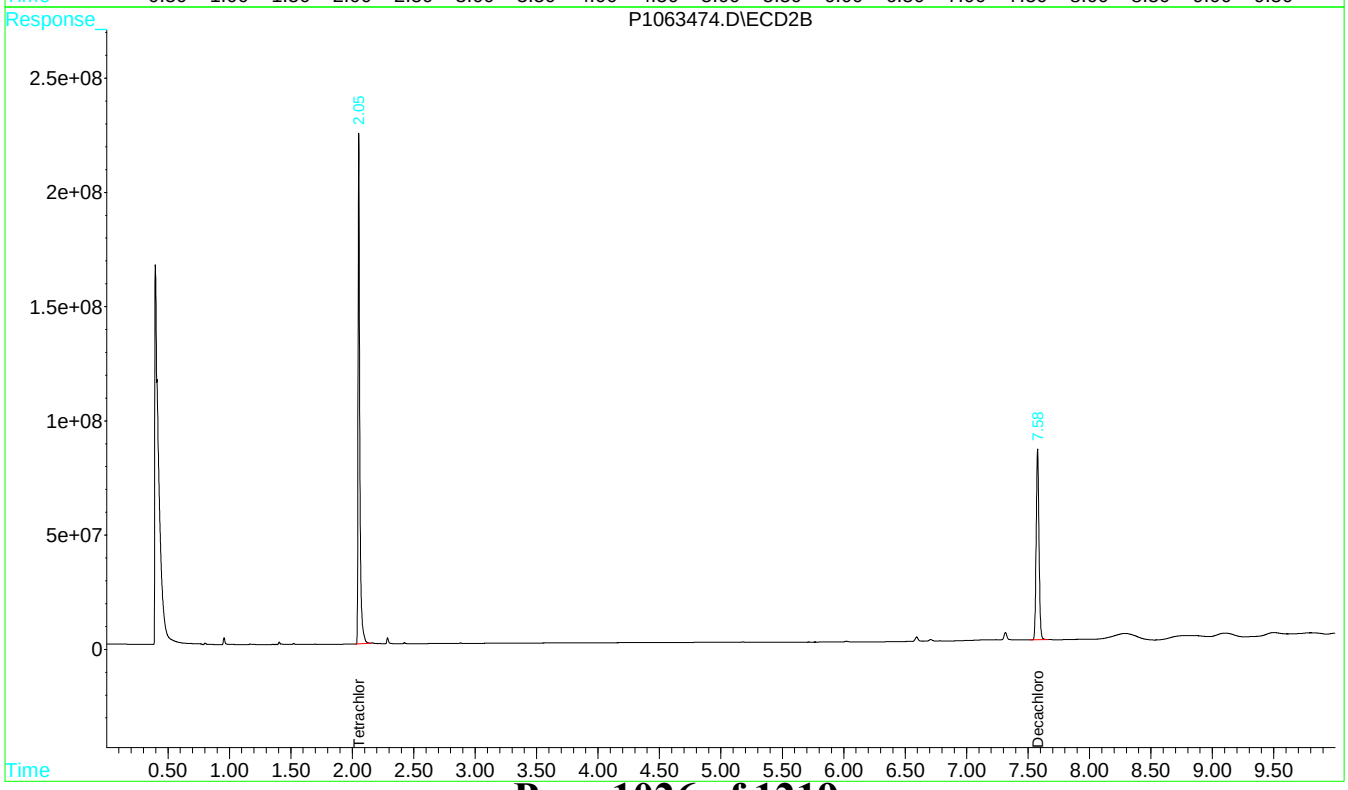
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063474.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063474.D\ECD2B.CH
Acq On : 2-10-2020 7:11:03 PM Operator: SR
Sample : BB00362-BLK2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:37 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





MATRIX SPIKE RAW DATA

SDG: 20B0093
CLASS: ARO
METHOD: EPA 8082A

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063444.D\ECD1A.CH Vial: 57
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063444.D\ECD2B.CH
Acq On : 2-8-2020 12:32:09 AM Operator: SR
Sample : BB00283-MS2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 11:04 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.05	1017.4E6	1745.6E6	0.155	0.209 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		77.50%	104.50%
45) S	Decachlorobiphen	8.78	7.58f	607.3E6	1000.8E6	0.152	0.184
	Spiked Amount 0.200	Range 30 - 150		Recovery =		76.00%	92.00%
	Target Compounds						
5) T	1016 1	2.98	2.36	57347672	91526992	0.458	0.632 #
6) T	1016 2	3.50	2.78	77944611	146.3E6	0.456	0.743 #
7) T	1016 3	3.88	3.07f	128.9E6	219.8E6	0.623	0.888 #
8) T	1016 4	3.98	3.19f	81056173	164.2E6	0.483	0.790 #
9) T	1016 5	4.32	3.46	75598609	159.2E6	0.490	0.799 #
30) T	1260 1	5.66	4.63f	213.0E6	380.7E6	0.630	0.938 #
31) T	1260 2	6.00	4.87f	349.2E6	514.3E6	0.681	1.086 #
32) T	1260 3	6.32	5.24f	351.8E6	505.3E6	0.747	0.910m
33) T	1260 4	6.43	5.31f	180.8E6	340.2E6	0.796	1.194m#
34) T	1260 5	7.11	5.93f	420.7E6	774.0E6	0.779	1.155 #

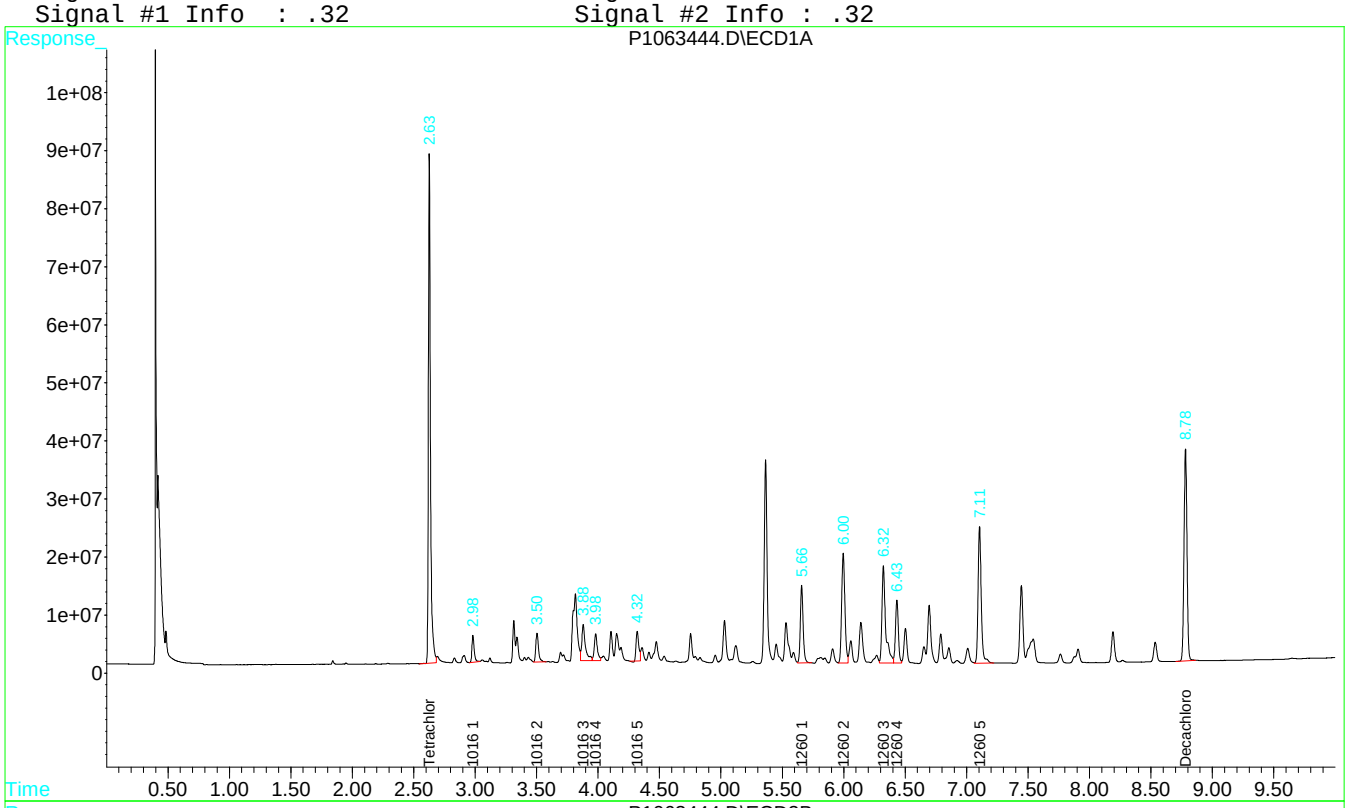
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063444.D P1051519.M Mon Feb 10 11:06:21 2020 Page 1

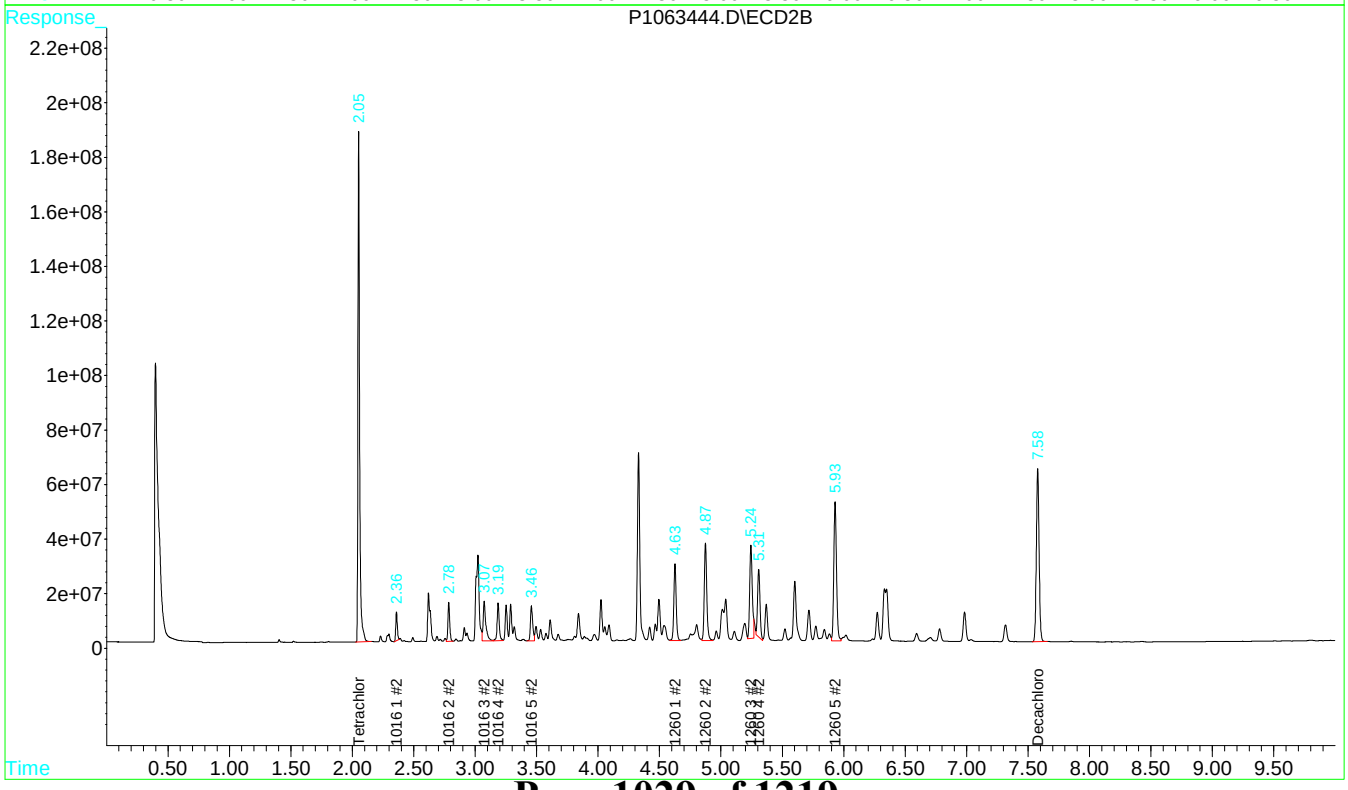
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063444.D\ECD1A.CH Vial: 57
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063444.D\ECD2B.CH
Acq On : 2-8-2020 12:32:09 AM Operator: SR
Sample : BB00283-MS2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 11:04 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063445.D\ECD1A.CH Vial: 58
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063445.D\ECD2B.CH
Acq On : 2-8-2020 12:45:41 AM Operator: SR
Sample : BB00283-MSD2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 11:05 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	2.63	2.05	974.6E6	1749.9E6	0.149	0.210	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		74.50%	105.00%	
45)	S Decachlorobiphen	8.78	7.58f	646.3E6	1091.9E6	0.161	0.201	
	Spiked Amount 0.200	Range 30 - 150		Recovery =		80.50%	100.50%	
	Target Compounds							
5)	T 1016 1	2.98	2.36	68761040	115.4E6	0.549	0.797	#
6)	T 1016 2	3.50	2.78	96158306	176.6E6	0.562	0.897	#
7)	T 1016 3	3.88	3.07	158.2E6	263.9E6	0.765	1.066	#
8)	T 1016 4	3.98	3.19f	111.3E6	197.8E6	0.663	0.952	#
9)	T 1016 5	4.32	3.46	104.3E6	196.1E6	0.676	0.984	#
30)	T 1260 1	5.66	4.63f	260.9E6	473.8E6	0.772	1.167	#
31)	T 1260 2	6.00	4.87f	439.9E6	654.0E6	0.858	1.380	#
32)	T 1260 3	6.32	5.24f	445.6E6	666.4E6	0.946	1.200	m#
33)	T 1260 4	6.43	5.31f	231.3E6	439.2E6	1.017	1.542	m#
34)	T 1260 5	7.11	5.93f	539.2E6	1019.0E6	0.998	1.520	#

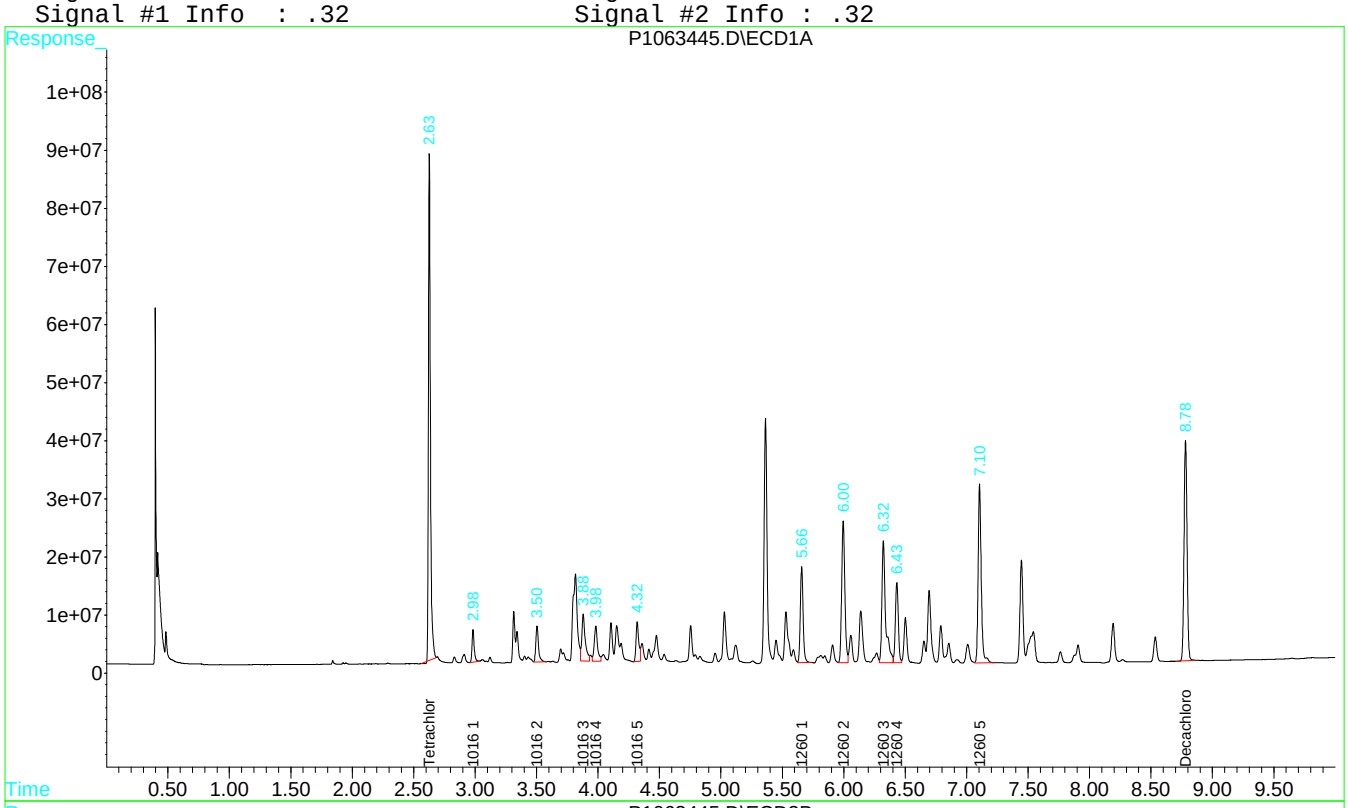
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063445.D P1051519.M Mon Feb 10 11:06:23 2020 Page 1

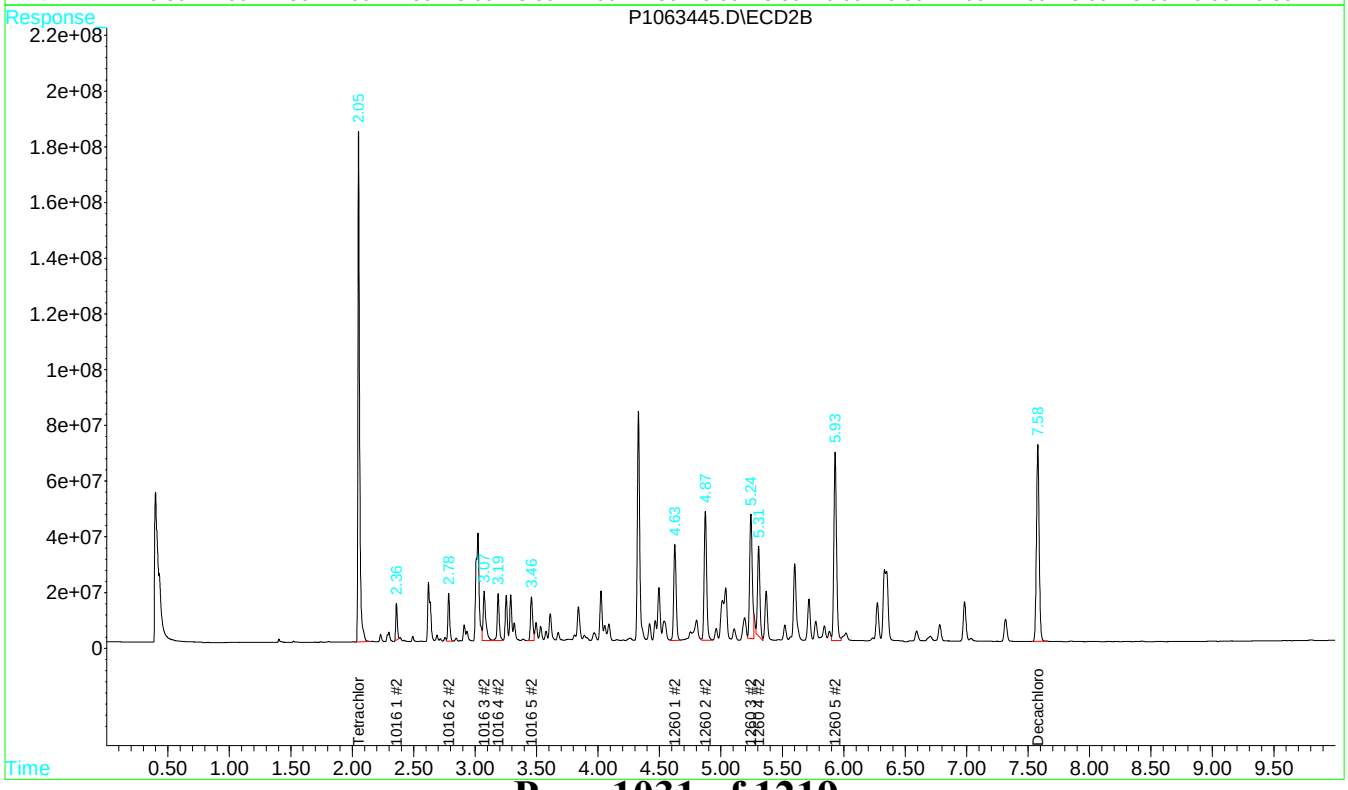
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063445.D\ECD1A.CH Vial: 58
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063445.D\ECD2B.CH
Acq On : 2-8-2020 12:45:41 AM Operator: SR
Sample : BB00283-MSD2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 11:05 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





MATRIX SPIKE RAW DATA

SDG: 20B0093
CLASS: ARO
METHOD: EPA 8082A

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063477.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063477.D\ECD2B.CH
Acq On : 2-10-2020 7:52:04 PM Operator: SR
Sample : BB00362-MS2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:39 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	2.63	2.05	1006.6E6	1785.6E6	0.154	0.214	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		77.00%	107.00%	
45)	S Decachlorobiphen	8.77	7.58f	612.7E6	1121.5E6	0.153	0.207	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		76.50%	103.50%	
	Target Compounds							
5)	T 1016 1	2.98	2.36	56588528	101.5E6	0.452	0.701	#
6)	T 1016 2	3.50	2.79	85416885	162.8E6	0.499	0.827	#
7)	T 1016 3	3.88	3.07	158.0E6	239.6E6	0.764	0.968	#
8)	T 1016 4	3.98	3.19f	101.9E6	166.0E6	0.607	0.799	#
9)	T 1016 5	4.32	3.46	82315846	176.7E6	0.534	0.887	#
30)	T 1260 1	5.65	4.63f	205.0E6	385.3E6	0.606	0.949	#
31)	T 1260 2	5.99	4.87f	318.4E6	547.6E6	0.621	1.156	#
32)	T 1260 3	6.32	5.24f	320.4E6	483.7E6	0.680	0.871	m#
33)	T 1260 4	6.43	5.31f	176.6E6	352.4E6	0.777	1.237	m#
34)	T 1260 5	7.10	5.93f	415.0E6	859.7E6	0.768	1.282	#

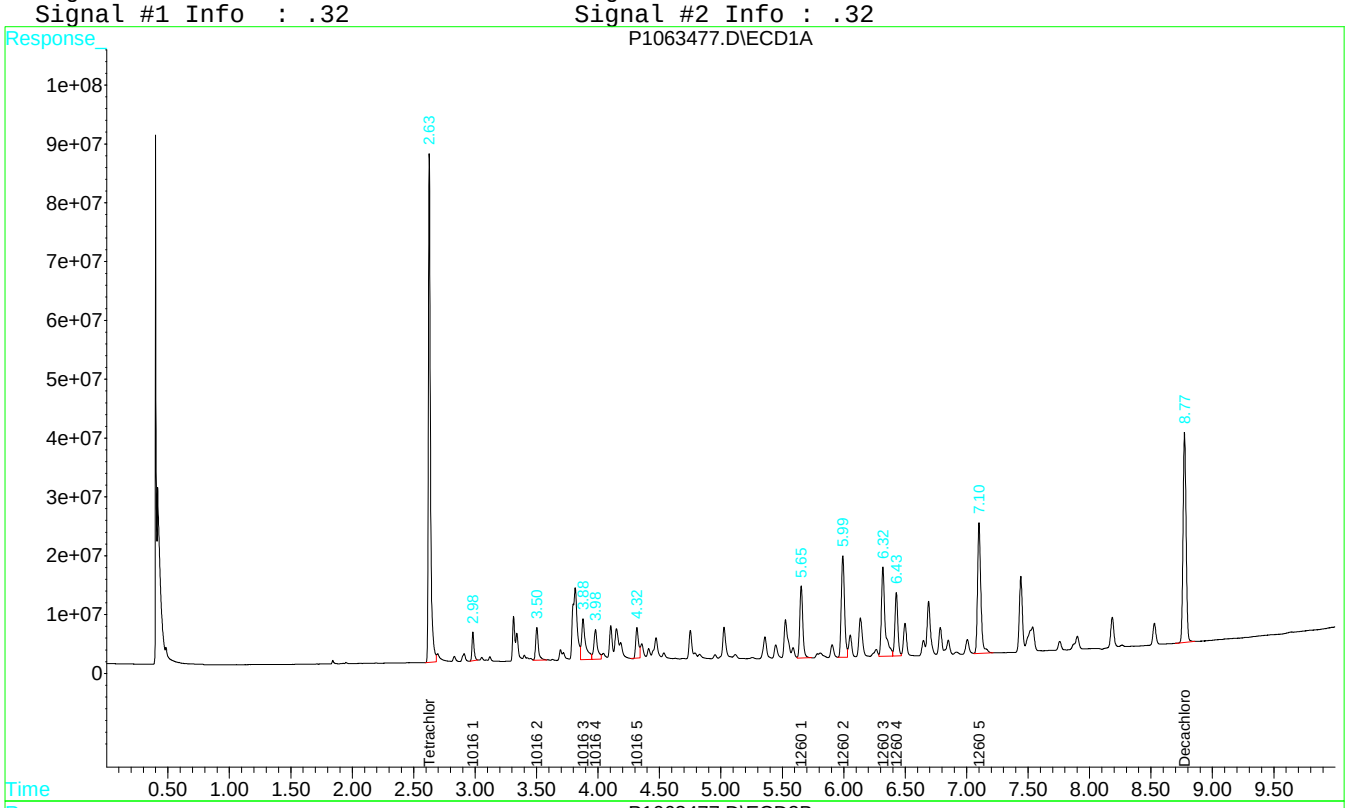
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063477.D P1051519.M Tue Feb 11 09:50:17 2020 Page 1

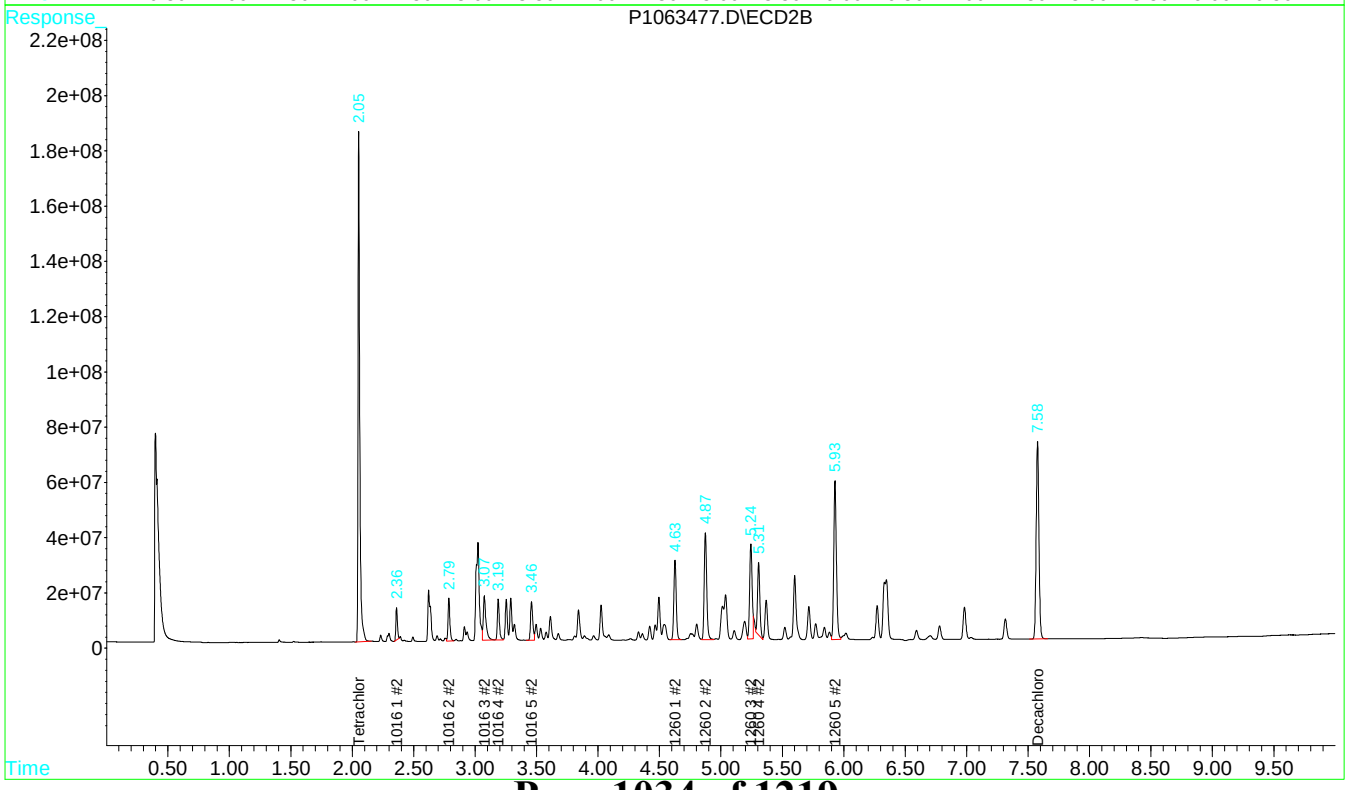
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063477.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063477.D\ECD2B.CH
Acq On : 2-10-2020 7:52:04 PM Operator: SR
Sample : BB00362-MS2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:39 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021020A\P1063478.D\ECD1A.CH Vial: 31
Acq On : 2-10-2020 8:05:38 PM Operator: SR
Sample : BB00362-MSD2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\021020A\P1063478.D\ECD2B.CH Vial: 31
Acq On : 2-10-2020 8:05:39 PM Operator: SR
Sample : BB00362-MSD2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Feb 11 9:39 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	2.63	2.05	1056.4E6	1859.4E6	0.161	0.223	#
Spiked Amount	0.200	Range	30 - 150	Recovery	=	80.50%	111.50%	
45) S	Decachlorobiphen	8.77	7.58f	646.6E6	1158.2E6	0.161	0.213	#
Spiked Amount	0.200	Range	30 - 150	Recovery	=	80.50%	106.50%	
	Target Compounds							
5) T	1016 1	2.98	2.39	59296240	17247172	0.474	0.119	#
6) T	1016 2	3.50	2.79	90382328	170.2E6	0.528	0.865	#
7) T	1016 3	3.88	3.07	155.7E6	243.8E6	0.753	0.985	#
8) T	1016 4	3.98	3.19f	102.1E6	174.7E6	0.608	0.841	#
9) T	1016 5	4.32	3.46	86282434	182.2E6	0.560	0.915	#
30) T	1260 1	5.65	4.63f	208.9E6	390.1E6	0.618	0.961	#
31) T	1260 2	5.99	4.87f	327.1E6	548.1E6	0.638	1.157	#
32) T	1260 3	6.32	5.24f	329.7E6	521.3E6	0.700	0.938	m#
33) T	1260 4	6.43	5.31f	178.7E6	349.1E6	0.786	1.226	m#
34) T	1260 5	7.10	5.93f	425.1E6	858.0E6	0.787	1.280	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063478.D P1051519.M Tue Feb 11 09:50:19 2020 Page 1

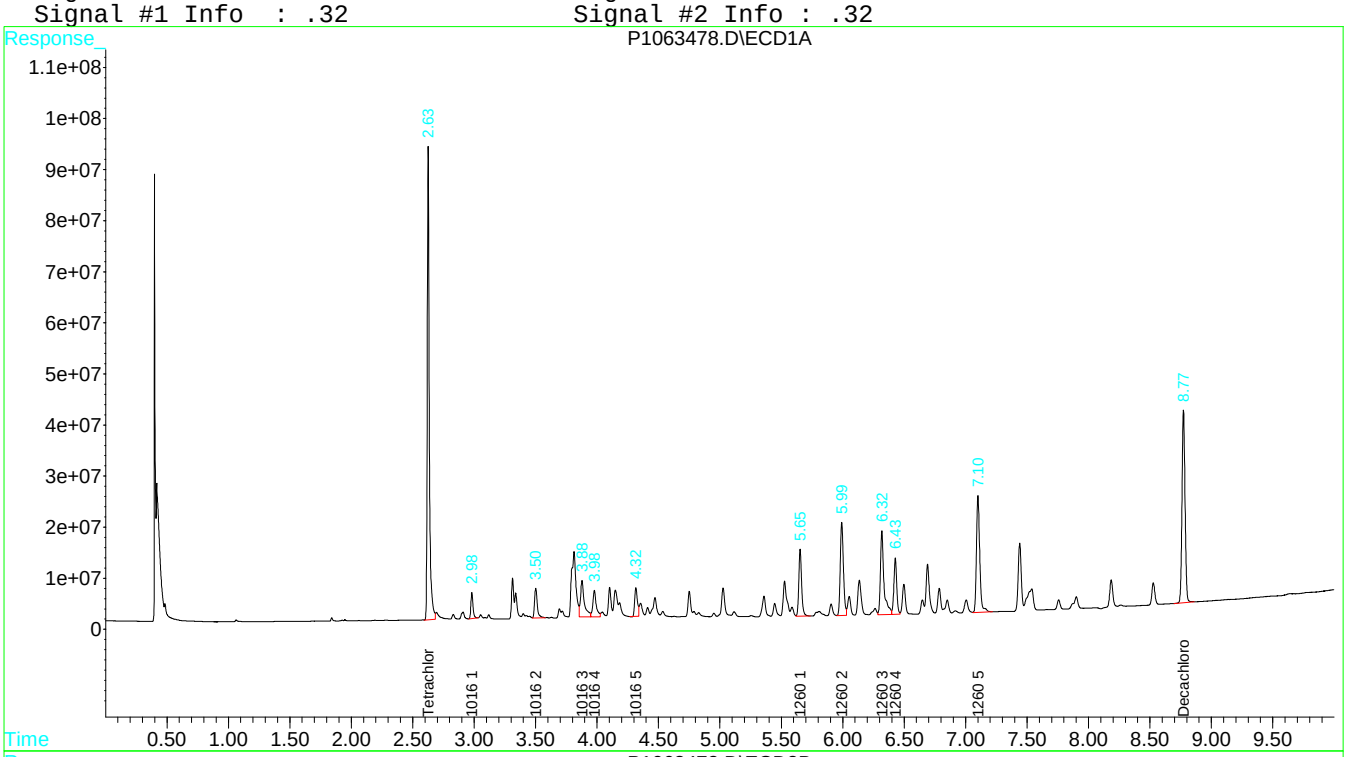
Quantitation Report

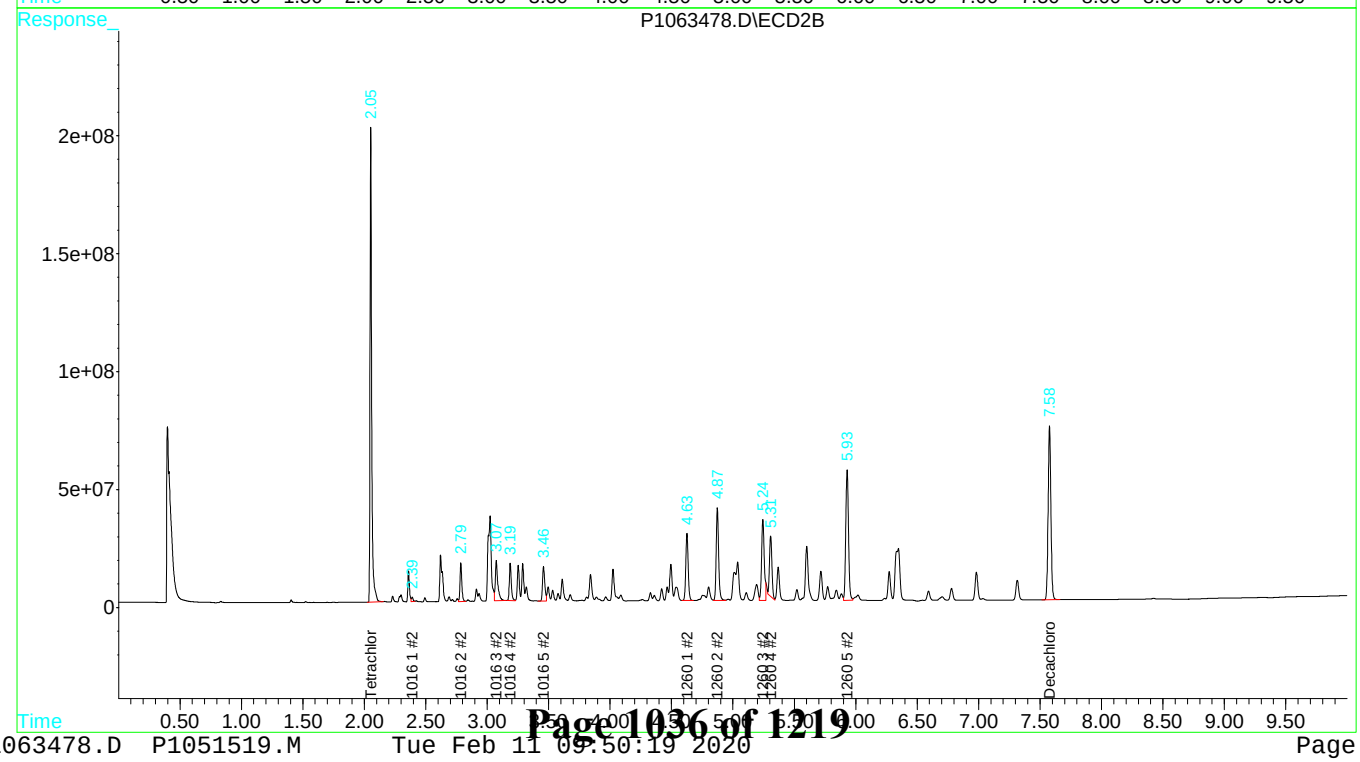
Data File : C:\HPCHEM\1\DATA\021020A\P1063478.D\ECD1A.CH Vial: 31
Acq On : 2-10-2020 8:05:38 PM Operator: SR
Sample : BB00362-MSD2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\021020A\P1063478.D\ECD2B.CH Vial: 31
Acq On : 2-10-2020 8:05:39 PM Operator: SR
Sample : BB00362-MSD2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Feb 11 9:39 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





LCS RAW DATA

SDG: 20B0093
CLASS: ARO
METHOD: EPA 8082A

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063423.D\ECD1A.CH Vial: 37
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063423.D\ECD2B.CH
Acq On : 2-7-2020 7:45:53 PM Operator: SR
Sample : BB00283-BS2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 10:36 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	2.63	2.05	1154.4E6	2014.9E6	0.176	0.242 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		88.00%	121.00%
45) S	Decachlorobiphen	8.78	7.58f	677.2E6	1200.8E6	0.169	0.221 #
	Spiked Amount 0.200	Range 30 - 150		Recovery =		84.50%	110.50%
	Target Compounds						
5) T	1016 1	2.98	2.36	88615392	172.0E6	0.708	1.187 #
6) T	1016 2	3.50	2.78f	156.9E6	266.6E6	0.917	1.355 #
7) T	1016 3	3.88	3.07f	238.1E6	378.2E6	1.152	1.528 #
8) T	1016 4	3.98	3.19f	175.7E6	271.7E6	1.047	1.308
9) T	1016 5	4.32	3.46	136.1E6	257.3E6	0.883	1.291 #
30) T	1260 1	5.66	4.63f	295.8E6	511.7E6	0.875	1.261 #
31) T	1260 2	6.00	4.87f	419.2E6	669.4E6	0.817	1.413 #
32) T	1260 3	6.32	5.24f	462.0E6	670.8E6	0.980	1.207m
33) T	1260 4	6.43	5.31f	241.1E6	425.9E6	1.061	1.495m#
34) T	1260 5	7.11	5.93f	563.4E6	1048.2E6	1.043	1.564 #

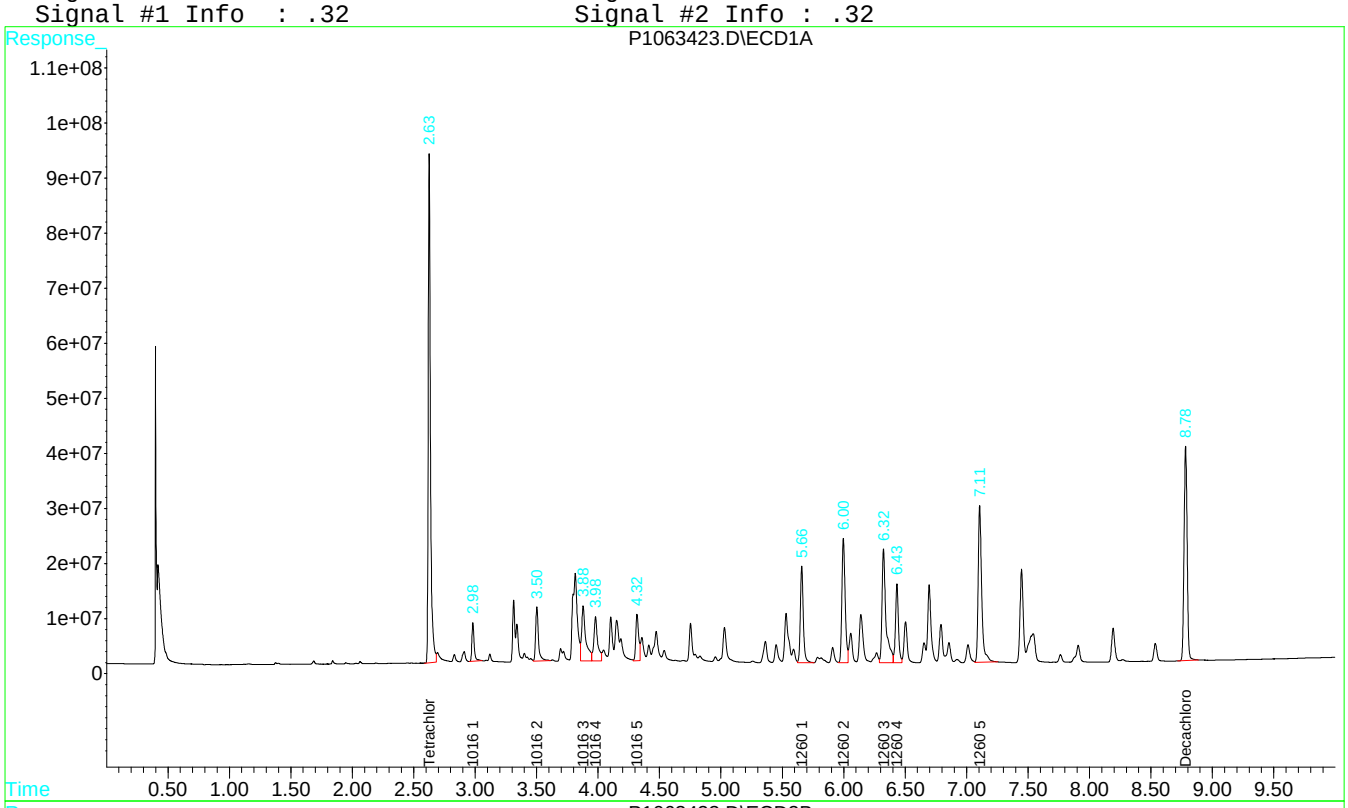
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063423.D P1051519.M Mon Feb 10 11:05:51 2020 Page 1

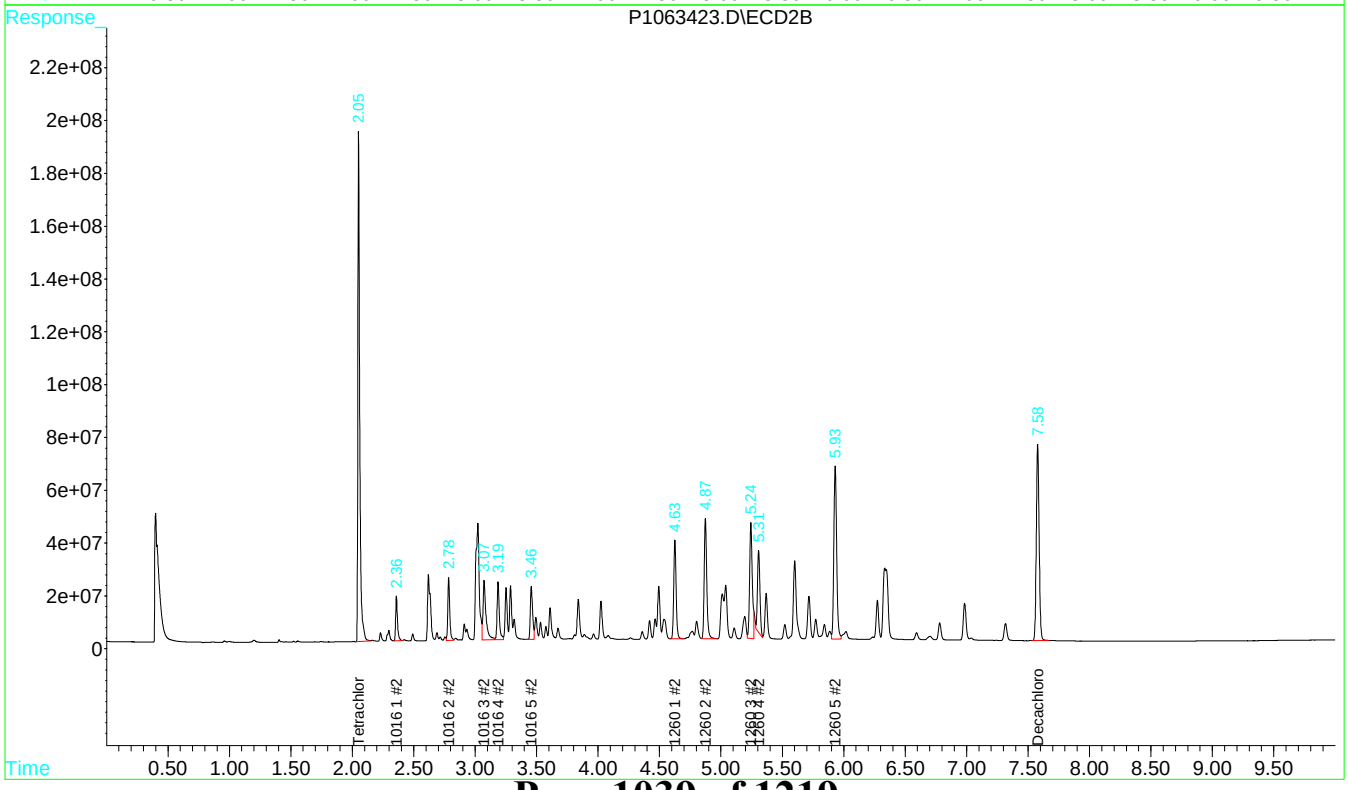
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\020720A\P1063423.D\ECD1A.CH Vial: 37
Signal #2 : C:\HPCHEM\1\DATA\020720A\P1063423.D\ECD2B.CH
Acq On : 2-7-2020 7:45:53 PM Operator: SR
Sample : BB00283-BS2 Inst : ECD#1
Misc : QBP1020720A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 10 10:36 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





LCS RAW DATA

SDG: 20B0093
CLASS: ARO
METHOD: EPA 8082A

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063475.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063475.D\ECD2B.CH
Acq On : 2-10-2020 7:24:42 PM Operator: SR
Sample : BB00362-BS2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:37 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Initial Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	2.63	2.05	1262.6E6	2274.5E6	0.193	0.273	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		96.50%	136.50%	
45)	S Decachlorobiphen	8.77	7.58f	769.1E6	1471.5E6	0.192	0.271	#
	Spiked Amount 0.200	Range 30 - 150		Recovery =		96.00%	135.50%	
	Target Compounds							
5)	T 1016 1	2.98	2.36	99430736	198.0E6	0.794	1.366	#
6)	T 1016 2	3.50	2.79	168.6E6	304.5E6	0.985	1.547	#
7)	T 1016 3	3.88	3.07	261.0E6	436.7E6	1.262	1.765	#
8)	T 1016 4	3.98	3.19f	185.5E6	314.3E6	1.105	1.513	#
9)	T 1016 5	4.32	3.46	143.1E6	296.9E6	0.928	1.490	#
30)	T 1260 1	5.65	4.63f	314.7E6	604.1E6	0.931	1.488	#
31)	T 1260 2	5.99	4.87f	455.6E6	803.3E6	0.888	1.695	#
32)	T 1260 3	6.32	5.24f	481.1E6	859.2E6	1.021	1.547m	#
33)	T 1260 4	6.43	5.31f	255.3E6	517.3E6	1.123	1.816m	#
34)	T 1260 5	7.10	5.93f	589.3E6	1293.7E6	1.091	1.930	#

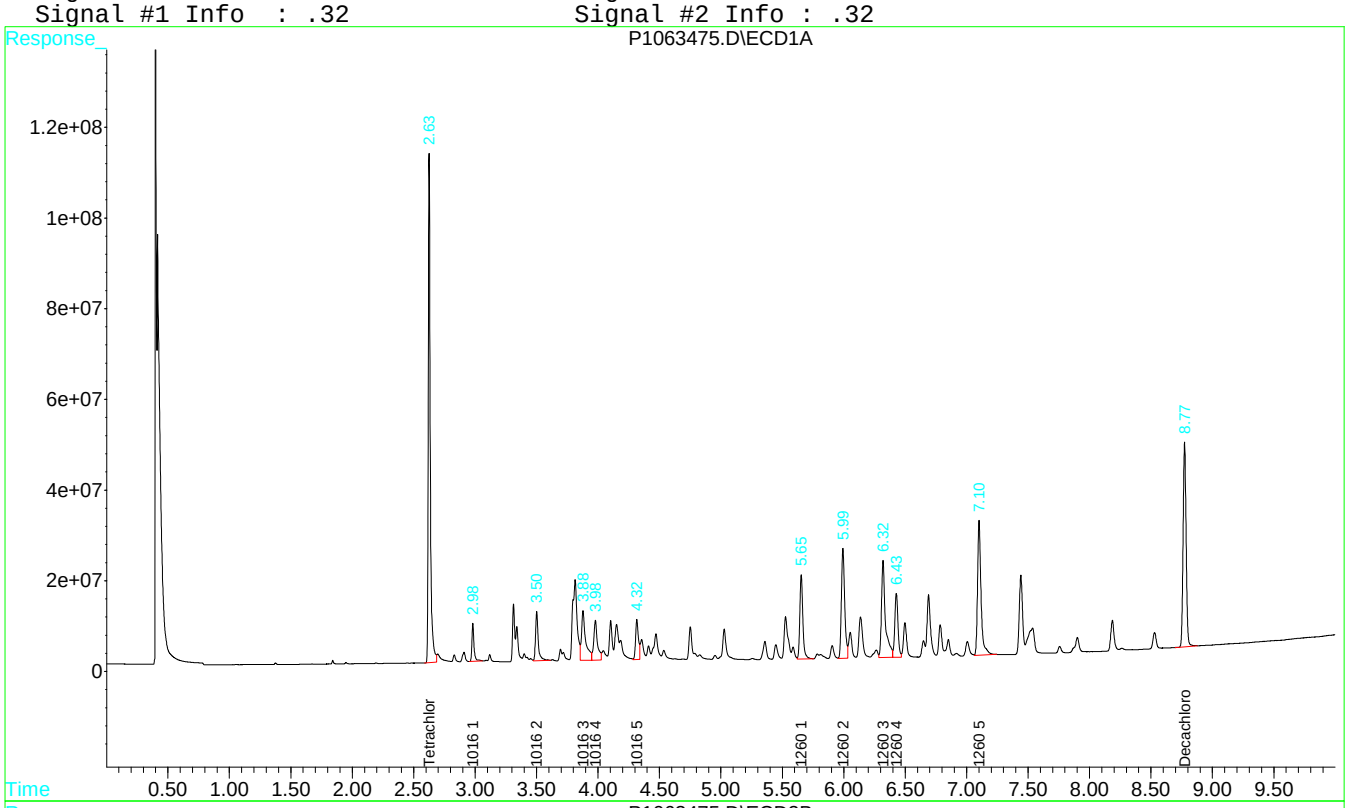
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
P1063475.D P1051519.M Tue Feb 11 09:50:14 2020 Page 1

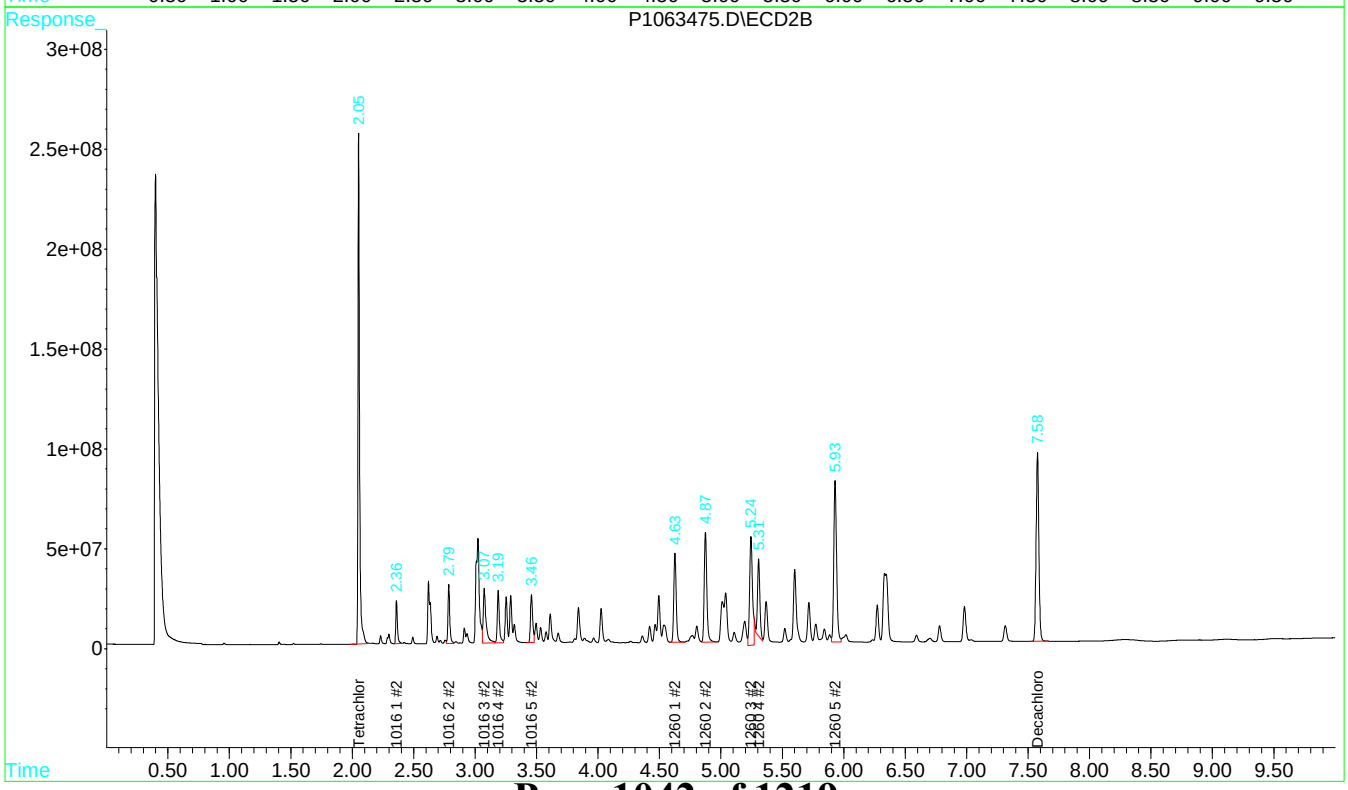
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\021020A\P1063475.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\021020A\P1063475.D\ECD2B.CH
Acq On : 2-10-2020 7:24:42 PM Operator: SR
Sample : BB00362-BS2 Inst : ECD#1
Misc : QBP1021020A Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Feb 11 9:37 2020 Quant Results File: P1051519.RES

Quant Method : C:\HPCHEM\1\METHODS\P1051519.M (Chemstation Integrator)
Title : 042919 - MR-1 & MR-2 MU-A = 64, MU-B = 67
Last Update : Thu Nov 07 09:59:09 2019
Response via : Multiple Level Calibration
DataAcq Meth : PCB1.M

Volume Inj. : 1 uL
Signal #1 Phase : ZB-Multiresidue-1 Signal #2 Phase: ZB-Multiresidue-2
Signal #1 Info : .32 Signal #2 Info : .32





BENCHSHEETS

SDG: 20B0093

CLASS: ARO

METHOD: EPA 8082A

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00283

Preparation Date: 02/07/2020 07:48

York Analytical Laboratories, Inc. **Printed: 2/11/2020 9:37:26AM**

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20B076 100 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0027-01 A	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0027-02 A	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0027-03 A	Polychlorinated Biphenyls (PCB)	30.8	10				
20B0027-04 A	Polychlorinated Biphenyls (PCB)	30.6	10				
20B0027-05 A	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0027-06 A	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0027-07 A	Polychlorinated Biphenyls (PCB)	30.7	10				
20B0027-08 A	Polychlorinated Biphenyls (PCB)	30.4	10				MUD/WATER
20B0046-01 D	Polychlorinated Biphenyls (PCB)	30.3	10				STICKY
20B0046-02 D	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0046-03 B	Polychlorinated Biphenyls (PCB)	30.3	10				
20B0046-04 B	Polychlorinated Biphenyls (PCB)	30.8	10				
20B0046-05 C	Polychlorinated Biphenyls (PCB)	30.4	10				STICKY
20B0046-06 B	Polychlorinated Biphenyls (PCB)	30.5	10				
20B0046-07 B	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0046-08 B	Polychlorinated Biphenyls (PCB)	30.4	10				
20B0093-01 F	Pesticides, 8081 target list	30.4	10				
20B0093-01 F	Polychlorinated Biphenyls (PCB)	30.4	10				
20B0168-01 A	Polychlorinated Biphenyls (PCB)	30.7	10				
20B0168-10 A	Pesticides, 8081 target list	30.7	10				
20B0215-01 A	Polychlorinated Biphenyls (PCB)	30.8	10				WET
BB00283-BLK1	QC	30.1	10				
BB00283-BLK2	QC	30.1	10				
BB00283-BS1	QC	30.1	10	Y20A380		100	
BB00283-BS2	QC	30.1	10	Y20A346		100	
BB00283-MS1	QC	30.1	10	Y20A380	20B0093-01	100	
BB00283-MS2	QC	30.1	10	Y20A346	20B0093-01	100	
BB00283-MSD1	QC	30.1	10	Y20A380	20B0093-01	100	
BB00283-MSD2	QC	30.1	10	Y20A346	20B0093-01	100	

Preparations Performed by **LJ** **Date:** **02/07/2020 07:48**

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00283

Preparation Date: 02/07/2020 07:48

York Analytical Laboratories, Inc.

Printed: 2/11/2020 9:37:26AM

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20B076 100 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y20A142	ACETONE	0000240527	Y20A423	HEXANE	DX860-US
Y20A427	Sodium Sulfate, Anhydrous	0000246249	Y20B075	Ottawa Sand Mix	020520

Preparations Performed by **LJ** **Date:** **02/07/2020 07:48**

BENCHSHEETS

SDG: 20B0093

CLASS: ARO

METHOD: EPA 8082A

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00362

Preparation Date: 02/10/2020 07:17

York Analytical Laboratories, Inc. **Printed: 2/12/2020 9:40:18AM**

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20B076 100 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0046-09 B	Polychlorinated Biphenyls (PCB)	30.3	10				
20B0046-12 B	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0046-13 B	Polychlorinated Biphenyls (PCB)	30.4	10				
20B0046-14 B	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0071-07 E	Polychlorinated Biphenyls (PCB)	30.3	10				
20B0071-08 E	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0093-02 E	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0093-02 E	Pesticides, 8081 target list	30.1	10				
20B0093-03 E	Polychlorinated Biphenyls (PCB)	30.6	10				
20B0093-03 E	Pesticides, 8081 target list	30.6	10				
20B0093-05 E	Polychlorinated Biphenyls (PCB)	30.5	10				
20B0093-05 E	Pesticides, 8081 target list	30.5	10				
20B0093-06 E	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0093-06 E	Pesticides, 8081 target list	30.1	10				
20B0093-06 E	Pesticides, NYSDEC Part 375 Target List	30.1	10				Added for BatchQC in: BB0
20B0093-07 E	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0093-07 E	Pesticides, 8081 target list	30.1	10				
20B0122-08 A	Pesticides, NYSDEC Part 375 Target List	30.1	10				
20B0122-08 A	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0122-09 A	Pesticides, NYSDEC Part 375 Target List	30.2	10				
20B0122-09 A	Polychlorinated Biphenyls (PCB)	30.2	10				
20B0124-01 A	Polychlorinated Biphenyls (PCB)	10.3	10				SLUDGE
20B0166-01 B	Pesticides, 8081 target list	30.4	10				CONCRETE SOIL MIX
20B0166-01 B	Polychlorinated Biphenyls (PCB)	30.4	10				CONCRETE SOIL MIX
20B0166-02 A	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0166-02 A	Pesticides, 8081 target list	30.1	10				
20B0166-04 B	Pesticides, 8081 target list	30.4	10				SOIL BRICK MIX
20B0166-04 B	Polychlorinated Biphenyls (PCB)	30.4	10				SOIL BRICK MIX
20B0166-05 A	Pesticides, 8081 target list	30.1	10				
20B0166-05 A	Polychlorinated Biphenyls (PCB)	30.1	10				
20B0237-01 A	Pesticides, NYSDEC Part 375 Target List	30.4	10				MUD
20B0237-01 A	Polychlorinated Biphenyls (PCB)	30.4	10				MUD
20B0237-03 A	Pesticides, NYSDEC Part 375 Target List	30.4	10				MUD

Preparations Performed by **LM** **Date:** **02/10/2020 07:17**

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00362

Preparation Date: 02/10/2020 07:17

York Analytical Laboratories, Inc. **Printed: 2/12/2020 9:40:18AM**

Matrix: Soil **Preparation: EPA 3550C** **Surrogate used: Y20B076 100 ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0237-03 A	Polychlorinated Biphenyls (PCB)	30.4	10				MUD
BB00362-BLK1	QC	30.1	10				
BB00362-BLK2	QC	30.1	10				
BB00362-BS1	QC	30.1	10	Y20A380		100	
BB00362-BS2	QC	30.1	10	Y20A346		100	
BB00362-MS1	QC	30.1	10	Y20A380	20B0093-06	100	
BB00362-MS2	QC	30.1	10	Y20A346	20B0093-06	100	
BB00362-MSD1	QC	30.1	10	Y20A380	20B0093-06	100	
BB00362-MSD2	QC	30.1	10	Y20A346	20B0093-06	100	

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y20A142	ACETONE	0000240527	Y20A423	HEXANE	DX860-US
Y20A427	Sodium Sulfate, Anhydrous	0000246249	Y20B075	Ottawa Sand Mix	020520

Preparations Performed by **LM** **Date:** **02/10/2020 07:17**

York Analytical Laboratories, Inc.
SDG: 20B0093
CLASS: METALS
METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette

Client Sample Id:	Lab Sample Id:
SB-1 (0-2)	20B0093-01
SB-1 (11-13)	20B0093-02
SB-1 (11-13)	20B0093-02RE1
SB-3 (0-2)	20B0093-03
SB-3 (13-15)	20B0093-05
SB-4 (0-2)	20B0093-06
SB-4 (13-15)	20B0093-07

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: 2/21/2020
Title: Laboratory Director

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00168
Laboratory ID: BB00168-MS1
Preparation: EPA 3050B
Initial/Final: 0.5 g / 50 mL

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Aluminum	225	14600	15900	544 *	75 - 125
Antimony	28.1	ND	5.28	18.8 *	75 - 125
Arsenic	225	4.67	229	99.8	75 - 125
Barium	225	422	575	67.9 *	75 - 125
Beryllium	5.62	ND	0.642	11.4 *	75 - 125
Cadmium	5.62	0.704	6.22	98.0	75 - 125
Calcium	112	32300	42900	9430 *	75 - 125
Chromium	22.5	29.0	51.0	97.6	75 - 125
Cobalt	56.2	19.0	67.2	85.7	75 - 125
Copper	28.1	34.4	69.2	124	75 - 125
Iron	112	20100	21100	940 *	75 - 125
Lead	56.2	711	555	-277 *	75 - 125
Magnesium	112	14200	14300	132 *	75 - 125
Manganese	56.2	806	601	-365 *	75 - 125
Nickel	56.2	23.9	81.0	102	75 - 125
Potassium	112	2500	2650	133 *	75 - 125
Selenium	225	ND	193	85.8	75 - 125
Silver	5.62	ND	3.95	70.2 *	75 - 125
Sodium	112	192	359	149 *	75 - 125
Thallium	225	ND	220	97.7	75 - 125
Vanadium	56.2	40.4	93.3	94.1	75 - 125
Zinc	56.2	280	338	102	75 - 125

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

* Values outside of QC limits

DUPLICATES

SB-4 (0-2)

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Laboratory ID: BB00168-DUP1
Batch: BB00168
Lab Source ID: 20B0093-06
Preparation: EPA 3050B
Initial/Final: 0.5 g / 50 mL
Source Sample Name: SB-4 (0-2)
% Solids: 88.89

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/kg dry)	C	DUPLICATE CONCENTRATION (mg/kg dry)	C	RPD %	Q	METHOD
Aluminum	35	14600		14400		1.29		EPA 6010D
Antimony	35	ND		ND				EPA 6010D
Arsenic	35	4.67		6.16		27.6		EPA 6010D
Barium	35	422		403		4.58		EPA 6010D
Beryllium	35	ND		ND				EPA 6010D
Cadmium	35	0.704		0.698		0.841		EPA 6010D
Calcium	35	32300		35100		8.30		EPA 6010D
Chromium	35	29.0		32.9		12.6		EPA 6010D
Cobalt	35	19.0		11.4		49.6	*	EPA 6010D
Copper	35	34.4		49.1		35.0		EPA 6010D
Iron	35	20100		20900		4.16		EPA 6010D
Lead	35	711		964		30.2		EPA 6010D
Magnesium	35	14200		14100		0.465		EPA 6010D
Manganese	35	806		482		50.4	*	EPA 6010D
Nickel	35	23.9		27.0		12.4		EPA 6010D
Potassium	35	2500		2490		0.345		EPA 6010D
Selenium	35	ND		ND				EPA 6010D
Silver	35	ND		ND				EPA 6010D
Sodium	35	192		186		3.07		EPA 6010D
Thallium	35	ND		ND				EPA 6010D
Vanadium	35	40.4		44.7		10.2		EPA 6010D
Zinc	35	280		271		3.38		EPA 6010D

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00168
Laboratory ID: BB00168-SRM1
Preparation: EPA 3050B
Initial/Final: 0.5 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.	QC LIMITS REC.
Aluminum	7700	8120	105	49.4 - 150.6
Antimony	40.0	22.6	56.4	21.58 - 292.5
Arsenic	125	128	102	69.8 - 129.6
Barium	529	581	110	75 - 125.1
Beryllium	155	158	102	74.8 - 125.2
Cadmium	37.7	39.2	104	74.8 - 124.9
Calcium	4720	4820	102	72.5 - 127.3
Chromium	58.3	59.1	101	70 - 130
Cobalt	196	210	107	75 - 125
Copper	78.0	83.3	107	75 - 125
Iron	13800	13600	98.8	34.4 - 165.9
Lead	111	110	99.1	70.9 - 128.8
Magnesium	2240	2240	99.8	61.6 - 138.4
Manganese	310	317	102	74.5 - 125.2
Nickel	333	358	107	70 - 130
Potassium	1970	2080	105	58.4 - 141.1
Selenium	251	217	86.5	69.3 - 131.1
Silver	27.2	27.4	101	67.6 - 132
Sodium	220	224	102	48.2 - 151.8
Thallium	241	253	105	72.6 - 127.4
Vanadium	125	121	96.5	70.2 - 129.6
Zinc	351	348	99.2	69.8 - 129.9

* Values outside of QC limits

SERIAL DILUTION

EPA 6010D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Laboratory ID: Y0B0539-SRD2
Sequence: Y0B0539
Lab Source ID: 20B0093-06
Preparation: BB00168
Initial/Final: 0.5 / 50
Source Sample Name: SB-4 (0-2)
% Solids: 88.89

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Aluminum	14600		15000		2.46		EPA 6010D	10
Antimony	ND		ND				EPA 6010D	10
Arsenic	4.67		ND				EPA 6010D	10
Barium	422		426		0.956		EPA 6010D	10
Beryllium	ND		ND				EPA 6010D	10
Cadmium	0.704		ND				EPA 6010D	10
Calcium	32300		35500		10.2 *		EPA 6010D	10
Chromium	29.0		35.6		22.8 *		EPA 6010D	10
Cobalt	19.0		12.5		34.0 *		EPA 6010D	10
Copper	34.4		48.9		42.1 *		EPA 6010D	10
Iron	20100		21600		7.65		EPA 6010D	10
Lead	711		1030		44.3 *		EPA 6010D	10
Magnesium	14200		14500		2.35		EPA 6010D	10
Manganese	806		510		36.7 *		EPA 6010D	10
Nickel	23.9		28.3		18.6 *		EPA 6010D	10
Potassium	2500		2510		0.316		EPA 6010D	10
Selenium	ND		ND				EPA 6010D	10
Silver	ND		ND				EPA 6010D	10
Sodium	192		ND				EPA 6010D	10
Thallium	ND		ND				EPA 6010D	10
Vanadium	40.4		47.0		16.4 *		EPA 6010D	10
Zinc	280		308		9.76		EPA 6010D	10

* Values outside of QC limits

POST DIGEST SPIKE SAMPLE RECOVERY

EPA 6010D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Laboratory ID: BB00168-PS1
Batch: BB00168
Lab Source ID: 20B0093-06
Preparation: EPA 3050B
Initial/Final: 0.1 g / 10 mL
Source Sample Name: SB-4 (0-2)
% Solids: 88.89

Analyte	Control Limit %R	Spike Sample Result (SSR) (ug/mL)	Sample Result (SR) (ug/mL)	Spike Added (SA) (ug/mL)	%R	
Aluminum	75 - 125	129	130	2.00	-51.5	*
Antimony	75 - 125	0.270	0.001	0.250	107	
Arsenic	75 - 125	2.10	0.041	2.00	103	
Barium	75 - 125	5.58	3.75	2.00	91.4	
Beryllium	75 - 125	0.010	-0.042	0.0500	20.1	*
Cadmium	75 - 125	0.056	0.006	0.0500	99.6	
Calcium	75 - 125	307	287	1.00	2000	*
Chromium	75 - 125	0.491	0.258	0.200	117	
Cobalt	75 - 125	0.615	0.169	0.500	89.3	
Copper	75 - 125	0.710	0.306	0.250	161	*
Iron	75 - 125	183	178	1.00	472	*
Lead	75 - 125	8.91	6.32	0.500	518	*
Magnesium	75 - 125	124	126	1.00	-206	*
Manganese	75 - 125	4.74	7.17	0.500	-486	*
Nickel	75 - 125	0.763	0.212	0.500	110	
Potassium	75 - 125	23.0	22.2	1.00	79.7	
Selenium	75 - 125	1.79	-0.051	2.00	89.4	
Silver	75 - 125	0.013	-0.012	0.0500	25.2	*
Sodium	75 - 125	2.68	1.71	1.00	96.9	
Thallium	75 - 125	2.03	-0.058	2.00	101	
Vanadium	75 - 125	0.896	0.359	0.500	107	
Zinc	75 - 125	2.84	2.49	0.500	68.8	*

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00168 Batch Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (0-2)	20B0093-01	qbi020520BRE_1-039	02/05/20 09:13	
SB-1 (11-13)	20B0093-02	qbi020520BRE_1-040	02/05/20 09:13	
SB-1 (11-13)	20B0093-02RE1	qbi021120ARE_1-009	02/05/20 09:13	Added 2/5/2020 by BML
SB-3 (0-2)	20B0093-03	qbi020520BRE_1-041	02/05/20 09:13	
SB-3 (13-15)	20B0093-05	qbi020520BRE_1-042	02/05/20 09:13	
SB-4 (0-2)	20B0093-06	qbi020520BRE_1-045	02/05/20 09:13	
SB-4 (13-15)	20B0093-07	qbi020520BRE_1-049	02/05/20 09:13	
Blank	BB00168-BLK1	qbi020520BRE_1-030	02/05/20 09:13	
SB-4 (0-2)	BB00168-DUP1	qbi020520BRE_1-046	02/05/20 09:13	
SB-4 (0-2)	BB00168-MS1	qbi020520BRE_1-047	02/05/20 09:13	
SB-4 (0-2)	BB00168-PS1	qbi020520BRE_1-048	02/05/20 09:13	[Spk] 0.5g->50mL; 50mL->50mL; Spiked 10mL
Reference	BB00168-SRM1	qbi020520BRE_1-033	02/05/20 09:13	

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates

Instrument ID: WinLabICP Project: 3475.00014000 Lafayette

Sequence: Y0B0539 Calibration: 02/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0B0539-ICB1	Aluminum	-0.019	0.050	ug/mL		EPA 6010D
	Antimony	-0.003	0.025	ug/mL		EPA 6010D
	Arsenic	-0.002	0.015	ug/mL		EPA 6010D
	Barium	0.0002	0.025	ug/mL		EPA 6010D
	Beryllium	0.00004	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0001	0.003	ug/mL		EPA 6010D
	Calcium	0.006	0.050	ug/mL		EPA 6010D
	Chromium	0.0002	0.005	ug/mL		EPA 6010D
	Cobalt	0.0003	0.004	ug/mL		EPA 6010D
	Copper	-0.0005	0.020	ug/mL		EPA 6010D
	Iron	-0.001	0.250	ug/mL		EPA 6010D
	Lead	-0.002	0.005	ug/mL		EPA 6010D
	Magnesium	0.013	0.050	ug/mL		EPA 6010D
	Manganese	0.00006	0.005	ug/mL		EPA 6010D
	Nickel	0.002	0.010	ug/mL		EPA 6010D
	Potassium	0.075	0.050	ug/mL	*	EPA 6010D
	Selenium	-0.005	0.025	ug/mL		EPA 6010D
	Silver	-0.0003	0.005	ug/mL		EPA 6010D
	Sodium	0.006	0.500	ug/mL		EPA 6010D
	Thallium	0.005	0.025	ug/mL		EPA 6010D
	Vanadium	-0.00002	0.010	ug/mL		EPA 6010D
	Zinc	-0.0001	0.025	ug/mL		EPA 6010D
Y0B0539-CCB1	Aluminum	-0.002	0.050	ug/mL		EPA 6010D
	Antimony	0.0007	0.025	ug/mL		EPA 6010D
	Arsenic	-0.0006	0.015	ug/mL		EPA 6010D
	Barium	0.0002	0.025	ug/mL		EPA 6010D
	Beryllium	0.00003	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0001	0.003	ug/mL		EPA 6010D
	Calcium	0.006	0.050	ug/mL		EPA 6010D
	Chromium	0.00004	0.005	ug/mL		EPA 6010D
	Cobalt	0.0004	0.004	ug/mL		EPA 6010D
	Copper	0.0001	0.020	ug/mL		EPA 6010D
	Iron	0.002	0.250	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates

Instrument ID: WinLabICP Project: 3475.00014000 Lafayette

Sequence: Y0B0539 Calibration: 02/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0B0539-CCB1	Lead	-0.001	0.005	ug/mL		EPA 6010D
	Magnesium	-0.010	0.050	ug/mL		EPA 6010D
	Manganese	-0.00002	0.005	ug/mL		EPA 6010D
	Nickel	0.001	0.010	ug/mL		EPA 6010D
	Potassium	0.007	0.050	ug/mL		EPA 6010D
	Selenium	-0.0005	0.025	ug/mL		EPA 6010D
	Silver	-0.001	0.005	ug/mL		EPA 6010D
	Sodium	0.015	0.500	ug/mL		EPA 6010D
	Thallium	0.0004	0.025	ug/mL		EPA 6010D
	Vanadium	-0.0001	0.010	ug/mL		EPA 6010D
	Zinc	-0.0001	0.025	ug/mL		EPA 6010D
Y0B0539-CCB2	Aluminum	0.0001	0.050	ug/mL		EPA 6010D
	Antimony	-0.001	0.025	ug/mL		EPA 6010D
	Arsenic	-0.0007	0.015	ug/mL		EPA 6010D
	Barium	0.00007	0.025	ug/mL		EPA 6010D
	Beryllium	0.00008	0.0005	ug/mL		EPA 6010D
	Cadmium	0.00006	0.003	ug/mL		EPA 6010D
	Calcium	0.009	0.050	ug/mL		EPA 6010D
	Chromium	-0.0002	0.005	ug/mL		EPA 6010D
	Cobalt	0.0002	0.004	ug/mL		EPA 6010D
	Copper	-0.00009	0.020	ug/mL		EPA 6010D
	Iron	-0.002	0.250	ug/mL		EPA 6010D
	Lead	-0.001	0.005	ug/mL		EPA 6010D
	Magnesium	0.020	0.050	ug/mL		EPA 6010D
	Manganese	0.00005	0.005	ug/mL		EPA 6010D
	Nickel	0.002	0.010	ug/mL		EPA 6010D
	Potassium	-0.015	0.050	ug/mL		EPA 6010D
	Selenium	-0.007	0.025	ug/mL		EPA 6010D
	Silver	-0.0009	0.005	ug/mL		EPA 6010D
	Sodium	0.005	0.500	ug/mL		EPA 6010D
	Thallium	0.002	0.025	ug/mL		EPA 6010D
	Vanadium	0.0002	0.010	ug/mL		EPA 6010D
	Zinc	0.00008	0.025	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Instrument ID: WinLabICP
Project: 3475.00014000 Lafayette
Sequence: Y0B0539
Calibration: 02/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BB00168-BLK1	Aluminum	-1.22	5.00	mg/kg wet		EPA 6010D
	Antimony	-0.406	2.50	mg/kg wet		EPA 6010D
	Arsenic	-0.382	1.50	mg/kg wet		EPA 6010D
	Barium	0.021	2.50	mg/kg wet		EPA 6010D
	Beryllium	0.006	0.050	mg/kg wet		EPA 6010D
	Cadmium	0.004	0.300	mg/kg wet		EPA 6010D
	Calcium	-0.186	5.00	mg/kg wet		EPA 6010D
	Chromium	0.104	0.500	mg/kg wet		EPA 6010D
	Cobalt	0.003	0.400	mg/kg wet		EPA 6010D
	Copper	-0.004	2.00	mg/kg wet		EPA 6010D
	Iron	2.20	25.0	mg/kg wet		EPA 6010D
	Lead	-0.293	0.500	mg/kg wet		EPA 6010D
	Magnesium	1.03	5.00	mg/kg wet		EPA 6010D
	Manganese	0.020	0.500	mg/kg wet		EPA 6010D
	Nickel	-0.396	1.00	mg/kg wet		EPA 6010D
	Potassium	-0.686	5.00	mg/kg wet		EPA 6010D
	Selenium	0.086	2.50	mg/kg wet		EPA 6010D
	Silver	-0.122	0.500	mg/kg wet		EPA 6010D
	Sodium	7.27	50.0	mg/kg wet		EPA 6010D
	Thallium	-0.013	2.50	mg/kg wet		EPA 6010D
	Vanadium	0.019	1.00	mg/kg wet		EPA 6010D
	Zinc	-0.058	2.50	mg/kg wet		EPA 6010D
Y0B0539-CCB3	Aluminum	-0.021	0.050	ug/mL		EPA 6010D
	Antimony	-0.002	0.025	ug/mL		EPA 6010D
	Arsenic	-0.004	0.015	ug/mL		EPA 6010D
	Barium	0.0002	0.025	ug/mL		EPA 6010D
	Beryllium	0.00008	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0002	0.003	ug/mL		EPA 6010D
	Calcium	0.006	0.050	ug/mL		EPA 6010D
	Chromium	0.0002	0.005	ug/mL		EPA 6010D
	Cobalt	0.0004	0.004	ug/mL		EPA 6010D
	Copper	-0.0005	0.020	ug/mL		EPA 6010D
	Iron	0.011	0.250	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates

Instrument ID: WinLabICP Project: 3475.00014000 Lafayette

Sequence: Y0B0539 Calibration: 02/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0B0539-CCB3	Lead	-0.001	0.005	ug/mL		EPA 6010D
	Magnesium	0.032	0.050	ug/mL		EPA 6010D
	Manganese	0.00001	0.005	ug/mL		EPA 6010D
	Nickel	0.002	0.010	ug/mL		EPA 6010D
	Potassium	0.034	0.050	ug/mL		EPA 6010D
	Selenium	-0.006	0.025	ug/mL		EPA 6010D
	Silver	-0.0006	0.005	ug/mL		EPA 6010D
	Sodium	0.023	0.500	ug/mL		EPA 6010D
	Thallium	0.003	0.025	ug/mL		EPA 6010D
	Vanadium	0.0002	0.010	ug/mL		EPA 6010D
	Zinc	0.0003	0.025	ug/mL		EPA 6010D
Y0B0539-CCB4	Aluminum	-0.015	0.050	ug/mL		EPA 6010D
	Antimony	-0.002	0.025	ug/mL		EPA 6010D
	Arsenic	0.001	0.015	ug/mL		EPA 6010D
	Barium	0.0002	0.025	ug/mL		EPA 6010D
	Beryllium	0.00002	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.00002	0.003	ug/mL		EPA 6010D
	Calcium	0.013	0.050	ug/mL		EPA 6010D
	Chromium	-0.000002	0.005	ug/mL		EPA 6010D
	Cobalt	0.0003	0.004	ug/mL		EPA 6010D
	Copper	-0.0003	0.020	ug/mL		EPA 6010D
	Iron	0.010	0.250	ug/mL		EPA 6010D
	Lead	-0.0008	0.005	ug/mL		EPA 6010D
	Magnesium	0.014	0.050	ug/mL		EPA 6010D
	Manganese	0.0001	0.005	ug/mL		EPA 6010D
	Nickel	-0.0007	0.010	ug/mL		EPA 6010D
	Potassium	0.002	0.050	ug/mL		EPA 6010D
	Selenium	-0.006	0.025	ug/mL		EPA 6010D
	Silver	-0.0003	0.005	ug/mL		EPA 6010D
	Sodium	-0.003	0.500	ug/mL		EPA 6010D
	Thallium	0.003	0.025	ug/mL		EPA 6010D
	Vanadium	0.0003	0.010	ug/mL		EPA 6010D
	Zinc	0.001	0.025	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Instrument ID: WinLabICP
Project: 3475.00014000 Lafayette
Sequence: Y0B0539
Calibration: 02/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0B0539-CCB5	Aluminum	-0.019	0.050	ug/mL		EPA 6010D
	Antimony	-0.004	0.025	ug/mL		EPA 6010D
	Arsenic	0.0007	0.015	ug/mL		EPA 6010D
	Barium	0.0002	0.025	ug/mL		EPA 6010D
	Beryllium	-0.00001	0.0005	ug/mL		EPA 6010D
	Cadmium	0.00004	0.003	ug/mL		EPA 6010D
	Calcium	0.011	0.050	ug/mL		EPA 6010D
	Chromium	0.0008	0.005	ug/mL		EPA 6010D
	Cobalt	0.0003	0.004	ug/mL		EPA 6010D
	Copper	-0.0002	0.020	ug/mL		EPA 6010D
	Iron	0.018	0.250	ug/mL		EPA 6010D
	Lead	-0.001	0.005	ug/mL		EPA 6010D
	Magnesium	0.008	0.050	ug/mL		EPA 6010D
	Manganese	0.00008	0.005	ug/mL		EPA 6010D
	Nickel	-0.0006	0.010	ug/mL		EPA 6010D
	Potassium	-0.029	0.050	ug/mL		EPA 6010D
	Selenium	-0.003	0.025	ug/mL		EPA 6010D
	Silver	-0.0002	0.005	ug/mL		EPA 6010D
	Sodium	0.016	0.500	ug/mL		EPA 6010D
	Thallium	0.003	0.025	ug/mL		EPA 6010D
	Vanadium	0.0003	0.010	ug/mL		EPA 6010D
	Zinc	0.0005	0.025	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Instrument ID: WinLabICP
Project: 3475.00014000 Lafayette
Sequence: Y0B1116
Calibration: 02/11/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0B1116-ICB1	Aluminum	-0.053	0.050	ug/mL		EPA 6010D
	Antimony	0.003	0.025	ug/mL		EPA 6010D
	Arsenic	-0.003	0.015	ug/mL		EPA 6010D
	Barium	0.0003	0.025	ug/mL		EPA 6010D
	Beryllium	0.00002	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.00003	0.003	ug/mL		EPA 6010D
	Calcium	-0.009	0.050	ug/mL		EPA 6010D
	Chromium	0.0001	0.005	ug/mL		EPA 6010D
	Cobalt	0.0001	0.004	ug/mL		EPA 6010D
	Copper	-0.0005	0.020	ug/mL		EPA 6010D
	Iron	-0.009	0.250	ug/mL		EPA 6010D
	Lead	-0.0002	0.005	ug/mL		EPA 6010D
	Magnesium	0.013	0.050	ug/mL		EPA 6010D
	Manganese	0.00007	0.005	ug/mL		EPA 6010D
	Nickel	-0.00007	0.010	ug/mL		EPA 6010D
	Potassium	0.015	0.050	ug/mL		EPA 6010D
	Selenium	-0.0003	0.025	ug/mL		EPA 6010D
	Silver	-0.001	0.005	ug/mL		EPA 6010D
	Sodium	-0.003	0.500	ug/mL		EPA 6010D
	Thallium	0.002	0.025	ug/mL		EPA 6010D
	Vanadium	0.0001	0.010	ug/mL		EPA 6010D
	Zinc	-0.002	0.025	ug/mL		EPA 6010D
Y0B1116-CCB1	Aluminum	-0.065	0.050	ug/mL		EPA 6010D
	Antimony	0.001	0.025	ug/mL		EPA 6010D
	Arsenic	-0.003	0.015	ug/mL		EPA 6010D
	Barium	0.0002	0.025	ug/mL		EPA 6010D
	Beryllium	0.00001	0.0005	ug/mL		EPA 6010D
	Cadmium	0.00005	0.003	ug/mL		EPA 6010D
	Calcium	-0.003	0.050	ug/mL		EPA 6010D
	Chromium	0.0001	0.005	ug/mL		EPA 6010D
	Cobalt	-0.0002	0.004	ug/mL		EPA 6010D
	Copper	-0.0003	0.020	ug/mL		EPA 6010D
	Iron	-0.010	0.250	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates

Instrument ID: WinLabICP Project: 3475.00014000 Lafayette

Sequence: Y0B1116 Calibration: 02/11/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0B1116-CCB1	Lead	0.00006	0.005	ug/mL		EPA 6010D
	Magnesium	0.006	0.050	ug/mL		EPA 6010D
	Manganese	0.00003	0.005	ug/mL		EPA 6010D
	Nickel	-0.001	0.010	ug/mL		EPA 6010D
	Potassium	0.035	0.050	ug/mL		EPA 6010D
	Selenium	-0.0007	0.025	ug/mL		EPA 6010D
	Silver	-0.0009	0.005	ug/mL		EPA 6010D
	Sodium	-0.008	0.500	ug/mL		EPA 6010D
	Thallium	-0.001	0.025	ug/mL		EPA 6010D
	Vanadium	0.00004	0.010	ug/mL		EPA 6010D
	Zinc	-0.002	0.025	ug/mL		EPA 6010D
Y0B1116-CCB2	Aluminum	-0.068	0.050	ug/mL		EPA 6010D
	Antimony	0.0008	0.025	ug/mL		EPA 6010D
	Arsenic	-0.004	0.015	ug/mL		EPA 6010D
	Barium	0.0001	0.025	ug/mL		EPA 6010D
	Beryllium	0.00005	0.0005	ug/mL		EPA 6010D
	Cadmium	0.00001	0.003	ug/mL		EPA 6010D
	Calcium	-0.010	0.050	ug/mL		EPA 6010D
	Chromium	0.0002	0.005	ug/mL		EPA 6010D
	Cobalt	-0.0001	0.004	ug/mL		EPA 6010D
	Copper	-0.0006	0.020	ug/mL		EPA 6010D
	Iron	0.004	0.250	ug/mL		EPA 6010D
	Lead	0.001	0.005	ug/mL		EPA 6010D
	Magnesium	0.030	0.050	ug/mL		EPA 6010D
	Manganese	0.00006	0.005	ug/mL		EPA 6010D
	Nickel	0.001	0.010	ug/mL		EPA 6010D
	Potassium	-0.011	0.050	ug/mL		EPA 6010D
	Selenium	0.001	0.025	ug/mL		EPA 6010D
	Silver	-0.001	0.005	ug/mL		EPA 6010D
	Sodium	-0.003	0.500	ug/mL		EPA 6010D
	Thallium	0.001	0.025	ug/mL		EPA 6010D
	Vanadium	-0.0002	0.010	ug/mL		EPA 6010D
	Zinc	-0.001	0.025	ug/mL		EPA 6010D

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B0539
Instrument: WinLabICP
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y0B0539-ICV1	qbi020520BRE_1-001	02/05/20 15:26
Initial Cal Blank	Y0B0539-ICB1	qbi020520BRE_1-002	02/05/20 15:29
Instrument RL Check	Y0B0539-CRL1	qbi020520BRE_1-003	02/05/20 15:32
Interference Check A	Y0B0539-IFA1	qbi020520BRE_1-005	02/05/20 15:37
Interference Check B	Y0B0539-IFB1	qbi020520BRE_1-006	02/05/20 15:40
Calibration Check	Y0B0539-CCV1	qbi020520BRE_1-007	02/05/20 15:42
Calibration Blank	Y0B0539-CCB1	qbi020520BRE_1-008	02/05/20 15:45
Calibration Check	Y0B0539-CCV2	qbi020520BRE_1-019	02/05/20 16:18
Calibration Blank	Y0B0539-CCB2	qbi020520BRE_1-020	02/05/20 16:21
Blank	BB00168-BLK1	qbi020520BRE_1-030	02/05/20 16:50
Calibration Check	Y0B0539-CCV3	qbi020520BRE_1-031	02/05/20 16:53
Calibration Blank	Y0B0539-CCB3	qbi020520BRE_1-032	02/05/20 16:56
Reference	BB00168-SRM1	qbi020520BRE_1-033	02/05/20 16:59
SB-1 (0-2)	20B0093-01	qbi020520BRE_1-039	02/05/20 17:14
SB-1 (11-13)	20B0093-02	qbi020520BRE_1-040	02/05/20 17:17
SB-3 (0-2)	20B0093-03	qbi020520BRE_1-041	02/05/20 17:19
SB-3 (13-15)	20B0093-05	qbi020520BRE_1-042	02/05/20 17:22
Calibration Check	Y0B0539-CCV4	qbi020520BRE_1-043	02/05/20 17:25
Calibration Blank	Y0B0539-CCB4	qbi020520BRE_1-044	02/05/20 17:28
SB-4 (0-2)	20B0093-06	qbi020520BRE_1-045	02/05/20 17:31
SB-4 (0-2)	BB00168-DUP1	qbi020520BRE_1-046	02/05/20 17:33
SB-4 (0-2)	BB00168-MS1	qbi020520BRE_1-047	02/05/20 17:36
SB-4 (0-2)	BB00168-PS1	qbi020520BRE_1-048	02/05/20 17:38
SB-4 (13-15)	20B0093-07	qbi020520BRE_1-049	02/05/20 17:41
SB-4 (0-2)	Y0B0539-SRD2	qbi020520BRE_1-050	02/05/20 17:43
Calibration Check	Y0B0539-CCV5	qbi020520BRE_1-051	02/05/20 17:46
Calibration Blank	Y0B0539-CCB5	qbi020520BRE_1-052	02/05/20 17:49

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B1116
Instrument: WinLabICP
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y0B1116-ICV1	qbi021120ARE_1-001	02/11/20 11:56
Initial Cal Blank	Y0B1116-ICB1	qbi021120ARE_1-002	02/11/20 11:59
Instrument RL Check	Y0B1116-CRL1	qbi021120ARE_1-003	02/11/20 12:02
Interference Check A	Y0B1116-IFA1	qbi021120ARE_1-005	02/11/20 12:08
Interference Check B	Y0B1116-IFB1	qbi021120ARE_1-006	02/11/20 12:10
Calibration Check	Y0B1116-CCV1	qbi021120ARE_1-007	02/11/20 12:13
Calibration Blank	Y0B1116-CCB1	qbi021120ARE_1-008	02/11/20 12:16
SB-1 (11-13)	20B0093-02RE1	qbi021120ARE_1-009	02/11/20 12:19
Calibration Check	Y0B1116-CCV2	qbi021120ARE_1-019	02/11/20 12:45
Calibration Blank	Y0B1116-CCB2	qbi021120ARE_1-020	02/11/20 12:48

HOLDING TIME SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

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
SB-1 (0-2)	02/04/20 09:40	02/04/20 19:35	02/05/20 09:13	0.98	180.00	02/05/20 17:14	1.32	180.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/05/20 09:13	0.96	180.00	02/05/20 17:17	1.30	180.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/05/20 09:13	0.96	180.00	02/11/20 12:19	7.09	180.00	
SB-3 (0-2)	02/04/20 12:45	02/04/20 19:35	02/05/20 09:13	0.85	180.00	02/05/20 17:19	1.19	180.00	
SB-3 (13-15)	02/04/20 13:25	02/04/20 19:35	02/05/20 09:13	0.83	180.00	02/05/20 17:22	1.16	180.00	
SB-4 (0-2)	02/04/20 14:50	02/04/20 19:35	02/05/20 09:13	0.77	180.00	02/05/20 17:31	1.11	180.00	
SB-4 (13-15)	02/04/20 15:00	02/04/20 19:35	02/05/20 09:13	0.76	180.00	02/05/20 17:41	1.11	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** WinLabICP

Analyte	LOD	LOQ	Units
Aluminum	5.00	5.00	mg/kg
Antimony	2.50	2.50	mg/kg
Arsenic	1.50	1.50	mg/kg
Barium	2.50	2.50	mg/kg
Beryllium	0.050	0.050	mg/kg
Cadmium	0.300	0.300	mg/kg
Calcium	0.500	5.00	mg/kg
Chromium	0.500	0.500	mg/kg
Cobalt	0.400	0.400	mg/kg
Copper	2.00	2.00	mg/kg
Iron	25.0	25.0	mg/kg
Lead	0.500	0.500	mg/kg
Magnesium	5.00	5.00	mg/kg
Manganese	0.500	0.500	mg/kg
Nickel	1.00	1.00	mg/kg
Potassium	5.00	5.00	mg/kg
Selenium	2.50	2.50	mg/kg
Silver	0.500	0.500	mg/kg
Sodium	50.0	50.0	mg/kg
Thallium	2.50	2.50	mg/kg
Vanadium	1.00	1.00	mg/kg
Zinc	2.50	2.50	mg/kg

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID: qbi020520BRE_1-039

Sampled: 02/04/20 09:40 Prepared: 02/05/20 09:13 Analyzed: 02/05/20 17:14

Solids: 81.01 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BB00168 Sequence: Y0B0539 Calibration: 02/05/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6510	1		EPA 6010D
7440-36-0	Antimony	3.09	1	U	EPA 6010D
7440-38-2	Arsenic	6.67	1		EPA 6010D
7440-39-3	Barium	202	1		EPA 6010D
7440-41-7	Beryllium	0.062	1	U	EPA 6010D
7440-43-9	Cadmium	1.10	1		EPA 6010D
7440-70-2	Calcium	46400	1		EPA 6010D
7440-47-3	Chromium	17.1	1		EPA 6010D
7440-48-4	Cobalt	6.33	1		EPA 6010D
7440-50-8	Copper	34.6	1		EPA 6010D
7439-89-6	Iron	15000	1		EPA 6010D
7439-92-1	Lead	292	1		EPA 6010D
7439-95-4	Magnesium	4560	1		EPA 6010D
7439-96-5	Manganese	185	1		EPA 6010D
7440-02-0	Nickel	17.0	1		EPA 6010D
7440-09-7	Potassium	1670	1		EPA 6010D
7782-49-2	Selenium	3.09	1	U	EPA 6010D
7440-22-4	Silver	0.617	1	U	EPA 6010D
7440-23-5	Sodium	228	1		EPA 6010D
7440-28-0	Thallium	3.09	1	U	EPA 6010D
7440-62-2	Vanadium	23.6	1		EPA 6010D
7440-66-6	Zinc	301	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID: qbi020520BRE_1-040

Sampled: 02/04/20 10:10 Prepared: 02/05/20 09:13 Analyzed: 02/05/20 17:17

Solids: 76.97 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BB00168 Sequence: Y0B0539 Calibration: 02/05/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	6340	1		EPA 6010D
7440-36-0	Antimony	11.5	1		EPA 6010D
7440-38-2	Arsenic	74.4	1		EPA 6010D
7440-39-3	Barium	2810	1		EPA 6010D
7440-41-7	Beryllium	0.065	1	U	EPA 6010D
7440-43-9	Cadmium	6.39	1		EPA 6010D
7440-70-2	Calcium	64000	1		EPA 6010D
7440-47-3	Chromium	43.1	1		EPA 6010D
7440-48-4	Cobalt	19.3	1		EPA 6010D
7440-50-8	Copper	347	1		EPA 6010D
7439-89-6	Iron	94400	1		EPA 6010D
7439-92-1	Lead	11100	1		EPA 6010D
7439-95-4	Magnesium	23700	1		EPA 6010D
7439-96-5	Manganese	635	1		EPA 6010D
7440-02-0	Nickel	139	1		EPA 6010D
7440-09-7	Potassium	1090	1		EPA 6010D
7782-49-2	Selenium	3.25	1	U	EPA 6010D
7440-22-4	Silver	0.650	1	U	EPA 6010D
7440-23-5	Sodium	551	1		EPA 6010D
7440-28-0	Thallium	11.1	1		EPA 6010D
7440-62-2	Vanadium	62.9	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02RE1 File ID: qbi021120ARE_1-009

Sampled: 02/04/20 10:10 Prepared: 02/05/20 09:13 Analyzed: 02/11/20 12:19

Solids: 76.97 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BB00168 Sequence: Y0B1116 Calibration: 02/11/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-66-6	Zinc	7250	5	D	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID: qbi020520BRE_1-041

Sampled: 02/04/20 12:45 Prepared: 02/05/20 09:13 Analyzed: 02/05/20 17:19

Solids: 87.50 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BB00168 Sequence: Y0B0539 Calibration: 02/05/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	9690	1		EPA 6010D
7440-36-0	Antimony	2.86	1	U	EPA 6010D
7440-38-2	Arsenic	6.01	1		EPA 6010D
7440-39-3	Barium	241	1		EPA 6010D
7440-41-7	Beryllium	0.057	1	U	EPA 6010D
7440-43-9	Cadmium	1.16	1		EPA 6010D
7440-70-2	Calcium	29400	1		EPA 6010D
7440-47-3	Chromium	22.1	1		EPA 6010D
7440-48-4	Cobalt	9.64	1		EPA 6010D
7440-50-8	Copper	60.7	1		EPA 6010D
7439-89-6	Iron	16800	1		EPA 6010D
7439-92-1	Lead	1220	1		EPA 6010D
7439-95-4	Magnesium	17400	1		EPA 6010D
7439-96-5	Manganese	382	1		EPA 6010D
7440-02-0	Nickel	31.9	1		EPA 6010D
7440-09-7	Potassium	2540	1		EPA 6010D
7782-49-2	Selenium	2.86	1	U	EPA 6010D
7440-22-4	Silver	0.571	1	U	EPA 6010D
7440-23-5	Sodium	236	1		EPA 6010D
7440-28-0	Thallium	2.86	1	U	EPA 6010D
7440-62-2	Vanadium	53.8	1		EPA 6010D
7440-66-6	Zinc	853	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

SB-3 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-05 File ID: qbi020520BRE_1-042

Sampled: 02/04/20 13:25 Prepared: 02/05/20 09:13 Analyzed: 02/05/20 17:22

Solids: 80.23 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BB00168 Sequence: Y0B0539 Calibration: 02/05/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	2990	1		EPA 6010D
7440-36-0	Antimony	3.12	1	U	EPA 6010D
7440-38-2	Arsenic	2.49	1		EPA 6010D
7440-39-3	Barium	245	1		EPA 6010D
7440-41-7	Beryllium	0.062	1	U	EPA 6010D
7440-43-9	Cadmium	0.403	1		EPA 6010D
7440-70-2	Calcium	2430	1		EPA 6010D
7440-47-3	Chromium	9.65	1		EPA 6010D
7440-48-4	Cobalt	4.50	1		EPA 6010D
7440-50-8	Copper	81.1	1		EPA 6010D
7439-89-6	Iron	9350	1		EPA 6010D
7439-92-1	Lead	242	1		EPA 6010D
7439-95-4	Magnesium	442	1		EPA 6010D
7439-96-5	Manganese	51.6	1		EPA 6010D
7440-02-0	Nickel	16.3	1		EPA 6010D
7440-09-7	Potassium	301	1		EPA 6010D
7782-49-2	Selenium	3.12	1	U	EPA 6010D
7440-22-4	Silver	0.623	1	U	EPA 6010D
7440-23-5	Sodium	244	1		EPA 6010D
7440-28-0	Thallium	3.12	1	U	EPA 6010D
7440-62-2	Vanadium	12.7	1		EPA 6010D
7440-66-6	Zinc	354	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-06 File ID: qbi020520BRE_1-045

Sampled: 02/04/20 14:50 Prepared: 02/05/20 09:13 Analyzed: 02/05/20 17:31

Solids: 88.89 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BB00168 Sequence: Y0B0539 Calibration: 02/05/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	14600	1		EPA 6010D
7440-36-0	Antimony	2.81	1	U	EPA 6010D
7440-38-2	Arsenic	4.67	1		EPA 6010D
7440-39-3	Barium	422	1		EPA 6010D
7440-41-7	Beryllium	0.056	1	U	EPA 6010D
7440-43-9	Cadmium	0.704	1		EPA 6010D
7440-70-2	Calcium	32300	1		EPA 6010D
7440-47-3	Chromium	29.0	1		EPA 6010D
7440-48-4	Cobalt	19.0	1		EPA 6010D
7440-50-8	Copper	34.4	1		EPA 6010D
7439-89-6	Iron	20100	1		EPA 6010D
7439-92-1	Lead	711	1		EPA 6010D
7439-95-4	Magnesium	14200	1		EPA 6010D
7439-96-5	Manganese	806	1		EPA 6010D
7440-02-0	Nickel	23.9	1		EPA 6010D
7440-09-7	Potassium	2500	1		EPA 6010D
7782-49-2	Selenium	2.81	1	U	EPA 6010D
7440-22-4	Silver	0.562	1	U	EPA 6010D
7440-23-5	Sodium	192	1		EPA 6010D
7440-28-0	Thallium	2.81	1	U	EPA 6010D
7440-62-2	Vanadium	40.4	1		EPA 6010D
7440-66-6	Zinc	280	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID: qbi020520BRE_1-049

Sampled: 02/04/20 15:00 Prepared: 02/05/20 09:13 Analyzed: 02/05/20 17:41

Solids: 74.61 Preparation: EPA 3050B Initial/Final: 0.5 g / 50 mL

Batch: BB00168 Sequence: Y0B0539 Calibration: 02/05/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7429-90-5	Aluminum	5450	1		EPA 6010D
7440-36-0	Antimony	3.35	1	U	EPA 6010D
7440-38-2	Arsenic	3.95	1		EPA 6010D
7440-39-3	Barium	213	1		EPA 6010D
7440-41-7	Beryllium	0.067	1	U	EPA 6010D
7440-43-9	Cadmium	0.713	1		EPA 6010D
7440-70-2	Calcium	59700	1		EPA 6010D
7440-47-3	Chromium	21.4	1		EPA 6010D
7440-48-4	Cobalt	4.13	1		EPA 6010D
7440-50-8	Copper	116	1		EPA 6010D
7439-89-6	Iron	13100	1		EPA 6010D
7439-92-1	Lead	215	1		EPA 6010D
7439-95-4	Magnesium	26100	1		EPA 6010D
7439-96-5	Manganese	260	1		EPA 6010D
7440-02-0	Nickel	18.1	1		EPA 6010D
7440-09-7	Potassium	785	1		EPA 6010D
7782-49-2	Selenium	10.4	1		EPA 6010D
7440-22-4	Silver	0.670	1	U	EPA 6010D
7440-23-5	Sodium	367	1		EPA 6010D
7440-28-0	Thallium	3.35	1	U	EPA 6010D
7440-62-2	Vanadium	15.1	1		EPA 6010D
7440-66-6	Zinc	409	1		EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/05/20
Control Limt: +/- 10.00%
Sequence: Y0B0539

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0B0539-ICV1	Aluminum	10.0	10.6	106	ug/mL	EPA 6010D
	Antimony	0.250	0.274	109	ug/mL	EPA 6010D
	Arsenic	0.250	0.251	100	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.251	100	ug/mL	EPA 6010D
	Cadmium	0.125	0.126	101	ug/mL	EPA 6010D
	Calcium	25.0	25.4	102	ug/mL	EPA 6010D
	Chromium	1.00	1.05	105	ug/mL	EPA 6010D
	Cobalt	2.50	2.60	104	ug/mL	EPA 6010D
	Copper	1.25	1.26	100	ug/mL	EPA 6010D
	Iron	5.00	5.09	102	ug/mL	EPA 6010D
	Lead	0.250	0.248	99.1	ug/mL	EPA 6010D
	Magnesium	25.0	25.4	101	ug/mL	EPA 6010D
	Manganese	2.50	2.57	103	ug/mL	EPA 6010D
	Nickel	2.50	2.56	102	ug/mL	EPA 6010D
	Potassium	5.00	5.11	102	ug/mL	EPA 6010D
	Selenium	0.250	0.266	107	ug/mL	EPA 6010D
	Silver	1.25	1.31	105	ug/mL	EPA 6010D
	Sodium	25.0	25.7	103	ug/mL	EPA 6010D
	Thallium	0.250	0.238	95.1	ug/mL	EPA 6010D
	Vanadium	2.50	2.52	101	ug/mL	EPA 6010D
	Zinc	2.50	2.59	104	ug/mL	EPA 6010D
Y0B0539-CCV1	Aluminum	10.0	10.3	103	ug/mL	EPA 6010D
	Antimony	0.250	0.252	101	ug/mL	EPA 6010D
	Arsenic	0.500	0.475	95.0	ug/mL	EPA 6010D
	Barium	10.0	9.96	99.6	ug/mL	EPA 6010D
	Beryllium	0.250	0.245	98.0	ug/mL	EPA 6010D
	Cadmium	0.250	0.245	98.1	ug/mL	EPA 6010D
	Calcium	25.0	24.8	99.1	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.49	99.6	ug/mL	EPA 6010D
	Copper	1.25	1.25	99.6	ug/mL	EPA 6010D
	Iron	5.00	4.95	98.9	ug/mL	EPA 6010D
	Lead	0.500	0.481	96.2	ug/mL	EPA 6010D
	Magnesium	25.0	24.5	97.8	ug/mL	EPA 6010D
	Manganese	2.50	2.48	99.3	ug/mL	EPA 6010D
	Nickel	2.50	2.47	98.7	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/05/20
Control Limt: +/- 10.00%
Sequence: Y0B0539

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0B0539-CCV1	Potassium	5.00	5.02	100	ug/mL	EPA 6010D
	Selenium	0.500	0.474	94.8	ug/mL	EPA 6010D
	Silver	1.25	1.26	101	ug/mL	EPA 6010D
	Sodium	25.0	25.0	100	ug/mL	EPA 6010D
	Thallium	0.500	0.478	95.6	ug/mL	EPA 6010D
	Vanadium	2.50	2.46	98.3	ug/mL	EPA 6010D
	Zinc	2.50	2.48	99.2	ug/mL	EPA 6010D
Y0B0539-CCV2	Aluminum	10.0	10.3	103	ug/mL	EPA 6010D
	Antimony	0.250	0.238	95.1	ug/mL	EPA 6010D
	Arsenic	0.500	0.475	95.1	ug/mL	EPA 6010D
	Barium	10.0	9.91	99.1	ug/mL	EPA 6010D
	Beryllium	0.250	0.244	97.6	ug/mL	EPA 6010D
	Cadmium	0.250	0.242	96.9	ug/mL	EPA 6010D
	Calcium	25.0	24.7	98.9	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.49	99.4	ug/mL	EPA 6010D
	Copper	1.25	1.25	100	ug/mL	EPA 6010D
	Iron	5.00	4.89	97.8	ug/mL	EPA 6010D
	Lead	0.500	0.480	96.1	ug/mL	EPA 6010D
	Magnesium	25.0	24.3	97.0	ug/mL	EPA 6010D
	Manganese	2.50	2.47	98.9	ug/mL	EPA 6010D
	Nickel	2.50	2.47	98.9	ug/mL	EPA 6010D
	Potassium	5.00	4.98	99.7	ug/mL	EPA 6010D
	Selenium	0.500	0.477	95.3	ug/mL	EPA 6010D
	Silver	1.25	1.27	102	ug/mL	EPA 6010D
	Sodium	25.0	25.0	100	ug/mL	EPA 6010D
	Thallium	0.500	0.485	97.1	ug/mL	EPA 6010D
	Vanadium	2.50	2.45	98.0	ug/mL	EPA 6010D
	Zinc	2.50	2.45	98.1	ug/mL	EPA 6010D
Y0B0539-CCV3	Aluminum	10.0	10.3	103	ug/mL	EPA 6010D
	Antimony	0.250	0.238	95.2	ug/mL	EPA 6010D
	Arsenic	0.500	0.492	98.4	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.250	99.8	ug/mL	EPA 6010D
	Cadmium	0.250	0.248	99.2	ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.4	ug/mL	EPA 6010D
	Chromium	1.00	1.03	103	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/05/20
Control Limt: +/- 10.00%
Sequence: Y0B0539

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0B0539-CCV3	Cobalt	2.50	2.54	102	ug/mL	EPA 6010D
	Copper	1.25	1.27	102	ug/mL	EPA 6010D
	Iron	5.00	4.92	98.4	ug/mL	EPA 6010D
	Lead	0.500	0.492	98.3	ug/mL	EPA 6010D
	Magnesium	25.0	24.4	97.5	ug/mL	EPA 6010D
	Manganese	2.50	2.53	101	ug/mL	EPA 6010D
	Nickel	2.50	2.52	101	ug/mL	EPA 6010D
	Potassium	5.00	4.99	99.8	ug/mL	EPA 6010D
	Selenium	0.500	0.489	97.8	ug/mL	EPA 6010D
	Silver	1.25	1.29	103	ug/mL	EPA 6010D
	Sodium	25.0	24.9	99.8	ug/mL	EPA 6010D
	Thallium	0.500	0.493	98.7	ug/mL	EPA 6010D
	Vanadium	2.50	2.50	100	ug/mL	EPA 6010D
	Zinc	2.50	2.51	100	ug/mL	EPA 6010D
Y0B0539-CCV4	Aluminum	10.0	10.5	105	ug/mL	EPA 6010D
	Antimony	0.250	0.232	92.9	ug/mL	EPA 6010D
	Arsenic	0.500	0.475	95.0	ug/mL	EPA 6010D
	Barium	10.0	10.1	101	ug/mL	EPA 6010D
	Beryllium	0.250	0.247	98.9	ug/mL	EPA 6010D
	Cadmium	0.250	0.244	97.8	ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.6	ug/mL	EPA 6010D
	Chromium	1.00	1.03	103	ug/mL	EPA 6010D
	Cobalt	2.50	2.53	101	ug/mL	EPA 6010D
	Copper	1.25	1.28	102	ug/mL	EPA 6010D
	Iron	5.00	4.94	98.8	ug/mL	EPA 6010D
	Lead	0.500	0.485	97.0	ug/mL	EPA 6010D
	Magnesium	25.0	24.5	98.1	ug/mL	EPA 6010D
	Manganese	2.50	2.51	100	ug/mL	EPA 6010D
	Nickel	2.50	2.52	101	ug/mL	EPA 6010D
	Potassium	5.00	4.98	99.6	ug/mL	EPA 6010D
	Selenium	0.500	0.477	95.5	ug/mL	EPA 6010D
	Silver	1.25	1.29	103	ug/mL	EPA 6010D
	Sodium	25.0	25.0	100	ug/mL	EPA 6010D
	Thallium	0.500	0.482	96.5	ug/mL	EPA 6010D
	Vanadium	2.50	2.48	99.4	ug/mL	EPA 6010D
	Zinc	2.50	2.47	98.8	ug/mL	EPA 6010D
Y0B0539-CCV5	Aluminum	10.0	10.5	105	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/05/20
Control Limt: +/- 10.00%
Sequence: Y0B0539

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0B0539-CCV5	Antimony	0.250	0.245	97.8	ug/mL	EPA 6010D
	Arsenic	0.500	0.495	98.9	ug/mL	EPA 6010D
	Barium	10.0	10.3	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.252	101	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	100	ug/mL	EPA 6010D
	Calcium	25.0	25.4	102	ug/mL	EPA 6010D
	Chromium	1.00	1.05	105	ug/mL	EPA 6010D
	Cobalt	2.50	2.58	103	ug/mL	EPA 6010D
	Copper	1.25	1.29	103	ug/mL	EPA 6010D
	Iron	5.00	4.98	99.5	ug/mL	EPA 6010D
	Lead	0.500	0.501	100	ug/mL	EPA 6010D
	Magnesium	25.0	24.8	99.2	ug/mL	EPA 6010D
	Manganese	2.50	2.56	102	ug/mL	EPA 6010D
	Nickel	2.50	2.56	102	ug/mL	EPA 6010D
	Potassium	5.00	5.06	101	ug/mL	EPA 6010D
	Selenium	0.500	0.495	99.0	ug/mL	EPA 6010D
	Silver	1.25	1.31	105	ug/mL	EPA 6010D
	Sodium	25.0	25.3	101	ug/mL	EPA 6010D
	Thallium	0.500	0.495	99.0	ug/mL	EPA 6010D
	Vanadium	2.50	2.53	101	ug/mL	EPA 6010D
	Zinc	2.50	2.54	102	ug/mL	EPA 6010D

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/11/20
Control Limt: +/- 10.00%
Sequence: Y0B1116

Lab Sample ID	Analyte	True	Found	%R		Units	Method
Y0B1116-ICV1	Aluminum	10.0	10.0	100		ug/mL	EPA 6010D
	Antimony	0.250	0.277	111	*	ug/mL	EPA 6010D
	Arsenic	0.250	0.252	101		ug/mL	EPA 6010D
	Barium	10.0	10.1	101		ug/mL	EPA 6010D
	Beryllium	0.250	0.247	98.8		ug/mL	EPA 6010D
	Cadmium	0.125	0.125	100		ug/mL	EPA 6010D
	Calcium	25.0	24.5	97.8		ug/mL	EPA 6010D
	Chromium	1.00	1.03	103		ug/mL	EPA 6010D
	Cobalt	2.50	2.54	102		ug/mL	EPA 6010D
	Copper	1.25	1.23	98.2		ug/mL	EPA 6010D
	Iron	5.00	4.93	98.6		ug/mL	EPA 6010D
	Lead	0.250	0.249	99.6		ug/mL	EPA 6010D
	Magnesium	25.0	24.6	98.3		ug/mL	EPA 6010D
	Manganese	2.50	2.52	101		ug/mL	EPA 6010D
	Nickel	2.50	2.50	100		ug/mL	EPA 6010D
	Potassium	5.00	4.99	99.8		ug/mL	EPA 6010D
	Selenium	0.250	0.265	106		ug/mL	EPA 6010D
	Silver	1.25	1.28	103		ug/mL	EPA 6010D
	Sodium	25.0	24.4	97.7		ug/mL	EPA 6010D
	Thallium	0.250	0.243	97.2		ug/mL	EPA 6010D
	Vanadium	2.50	2.48	99.1		ug/mL	EPA 6010D
	Zinc	2.50	2.55	102		ug/mL	EPA 6010D
Y0B1116-CCV1	Aluminum	10.0	10.2	102		ug/mL	EPA 6010D
	Antimony	0.250	0.259	104		ug/mL	EPA 6010D
	Arsenic	0.500	0.491	98.2		ug/mL	EPA 6010D
	Barium	10.0	10.2	102		ug/mL	EPA 6010D
	Beryllium	0.250	0.250	100		ug/mL	EPA 6010D
	Cadmium	0.250	0.255	102		ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.5		ug/mL	EPA 6010D
	Chromium	1.00	1.05	105		ug/mL	EPA 6010D
	Cobalt	2.50	2.60	104		ug/mL	EPA 6010D
	Copper	1.25	1.24	99.0		ug/mL	EPA 6010D
	Iron	5.00	4.99	99.9		ug/mL	EPA 6010D
	Lead	0.500	0.498	99.5		ug/mL	EPA 6010D
	Magnesium	25.0	24.9	99.5		ug/mL	EPA 6010D
	Manganese	2.50	2.53	101		ug/mL	EPA 6010D
	Nickel	2.50	2.56	102		ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/11/20
Control Limt: +/- 10.00%
Sequence: Y0B1116

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0B1116-CCV1	Potassium	5.00	5.00	99.9	ug/mL	EPA 6010D
	Selenium	0.500	0.499	99.8	ug/mL	EPA 6010D
	Silver	1.25	1.31	105	ug/mL	EPA 6010D
	Sodium	25.0	24.8	99.3	ug/mL	EPA 6010D
	Thallium	0.500	0.496	99.3	ug/mL	EPA 6010D
	Vanadium	2.50	2.51	100	ug/mL	EPA 6010D
	Zinc	2.50	2.60	104	ug/mL	EPA 6010D
Y0B1116-CCV2	Aluminum	10.0	10.2	102	ug/mL	EPA 6010D
	Antimony	0.250	0.246	98.3	ug/mL	EPA 6010D
	Arsenic	0.500	0.495	98.9	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.250	100	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	101	ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.6	ug/mL	EPA 6010D
	Chromium	1.00	1.04	104	ug/mL	EPA 6010D
	Cobalt	2.50	2.58	103	ug/mL	EPA 6010D
	Copper	1.25	1.23	98.4	ug/mL	EPA 6010D
	Iron	5.00	4.96	99.3	ug/mL	EPA 6010D
	Lead	0.500	0.499	99.9	ug/mL	EPA 6010D
	Magnesium	25.0	24.8	99.4	ug/mL	EPA 6010D
	Manganese	2.50	2.53	101	ug/mL	EPA 6010D
	Nickel	2.50	2.53	101	ug/mL	EPA 6010D
	Potassium	5.00	4.99	99.7	ug/mL	EPA 6010D
	Selenium	0.500	0.498	99.6	ug/mL	EPA 6010D
	Silver	1.25	1.29	103	ug/mL	EPA 6010D
	Sodium	25.0	24.9	99.6	ug/mL	EPA 6010D
	Thallium	0.500	0.500	100	ug/mL	EPA 6010D
	Vanadium	2.50	2.50	100	ug/mL	EPA 6010D
	Zinc	2.50	2.58	103	ug/mL	EPA 6010D

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/05/20
Sequence: Y0B0539

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y0B0539-CRL1	Antimony	0.0250	0.020	81.8	ug/mL	25 - 175
	Arsenic	0.0150	0.005	32.9	ug/mL	25 - 175
	Barium	0.0250	0.026	105	ug/mL	25 - 175
	Beryllium	0.000500	0.0005	94.2	ug/mL	25 - 175
	Cadmium	0.00300	0.003	101	ug/mL	25 - 175
	Chromium	0.00500	0.006	112	ug/mL	25 - 175
	Cobalt	0.00400	0.004	108	ug/mL	25 - 175
	Copper	0.0400	0.039	98.4	ug/mL	25 - 175
	Lead	0.00500	0.005	105	ug/mL	25 - 175
	Manganese	0.0100	0.010	104	ug/mL	25 - 175
	Nickel	0.0100	0.008	76.0	ug/mL	25 - 175
	Selenium	0.0250	0.024	95.6	ug/mL	25 - 175
	Silver	0.0100	0.011	109	ug/mL	25 - 175
	Thallium	0.0250	0.024	95.1	ug/mL	25 - 175
	Vanadium	0.0100	0.010	98.6	ug/mL	25 - 175
	Zinc	0.0250	0.030	120	ug/mL	25 - 175

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/11/20
Sequence: Y0B1116

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y0B1116-CRL1	Antimony	0.0250	0.029	115	ug/mL	25 - 175
	Arsenic	0.0150	0.012	79.9	ug/mL	25 - 175
	Barium	0.0250	0.027	106	ug/mL	25 - 175
	Beryllium	0.000500	0.0005	104	ug/mL	25 - 175
	Cadmium	0.00300	0.003	100	ug/mL	25 - 175
	Chromium	0.00500	0.005	107	ug/mL	25 - 175
	Cobalt	0.00400	0.004	112	ug/mL	25 - 175
	Copper	0.0400	0.040	101	ug/mL	25 - 175
	Lead	0.00500	0.005	90.6	ug/mL	25 - 175
	Manganese	0.0100	0.010	103	ug/mL	25 - 175
	Nickel	0.0100	0.007	69.4	ug/mL	25 - 175
	Selenium	0.0250	0.022	89.2	ug/mL	25 - 175
	Silver	0.0100	0.009	86.9	ug/mL	25 - 175
	Thallium	0.0250	0.027	106	ug/mL	25 - 175
	Vanadium	0.0100	0.010	101	ug/mL	25 - 175
	Zinc	0.0250	0.032	130	ug/mL	25 - 175

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/05/20
Sequence: Y0B0539

Lab Sample ID	Analyte	True	Found	%R	Units
Y0B0539-IFA1	Antimony		0.00		ug/mL
	Arsenic		0.00		ug/mL
	Barium		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Chromium		0.00		ug/mL
	Cobalt		0.00		ug/mL
	Copper		0.00		ug/mL
	Lead		0.00		ug/mL
	Manganese		0.00		ug/mL
	Nickel		0.00		ug/mL
	Selenium		0.00		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Vanadium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y0B0539-IFB1	Aluminum	500	518.02	104	ug/mL
	Antimony	0.500	0.51	102	ug/mL
	Arsenic	0.500	0.49	98.6	ug/mL
	Barium	0.500	0.51	102	ug/mL
	Beryllium	0.500	0.49	98.8	ug/mL
	Cadmium	1.00	0.96	96.1	ug/mL
	Calcium	500	490.93	98.2	ug/mL
	Chromium	0.500	0.49	97.6	ug/mL
	Cobalt	0.500	0.49	98.2	ug/mL
	Copper	0.500	0.56	111	ug/mL
	Iron	200	188.99	94.5	ug/mL
	Lead	1.00	1.01	101	ug/mL
	Magnesium	500	485.58	97.1	ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/05/20
Sequence: Y0B0539

Lab Sample ID	Analyte	True	Found	%R	Units
Y0B0539-IFB1	Manganese	0.500	0.49	98.4	ug/mL
	Nickel	1.00	1.03	103	ug/mL
	Potassium		0.02		ug/mL
	Selenium	0.500	0.44	87.4	ug/mL
	Silver	1.00	1.08	108	ug/mL
	Sodium		0.04		ug/mL
	Thallium	0.500	0.50	99.8	ug/mL
	Vanadium	0.500	0.49	97.2	ug/mL
	Zinc	1.00	0.95	95.1	ug/mL

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/11/20
Sequence: Y0B1116

Lab Sample ID	Analyte	True	Found	%R	Units
Y0B1116-IFA1	Antimony		0.00		ug/mL
	Arsenic		0.00		ug/mL
	Barium		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Chromium		0.00		ug/mL
	Cobalt		0.00		ug/mL
	Copper		0.00		ug/mL
	Lead		0.00		ug/mL
	Manganese		0.00		ug/mL
	Nickel		0.00		ug/mL
	Selenium		0.00		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Vanadium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y0B1116-IFB1	Aluminum	500	502.93	101	ug/mL
	Antimony	0.500	0.52	103	ug/mL
	Arsenic	0.500	0.51	102	ug/mL
	Barium	0.500	0.51	103	ug/mL
	Beryllium	0.500	0.50	99.9	ug/mL
	Cadmium	1.00	0.97	97.4	ug/mL
	Calcium	500	483.46	96.7	ug/mL
	Chromium	0.500	0.49	98.8	ug/mL
	Cobalt	0.500	0.50	99.4	ug/mL
	Copper	0.500	0.56	112	ug/mL
	Iron	200	189.76	94.9	ug/mL
	Lead	1.00	1.02	102	ug/mL
	Magnesium	500	482.86	96.6	ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: WinLabICP
Calibration: 02/11/20
Sequence: Y0B1116

Lab Sample ID	Analyte	True	Found	%R	Units
Y0B1116-IFB1	Manganese	0.500	0.50	99.3	ug/mL
	Nickel	1.00	1.04	104	ug/mL
	Potassium		-0.04		ug/mL
	Selenium	0.500	0.45	90.4	ug/mL
	Silver	1.00	1.09	109	ug/mL
	Sodium		0.05		ug/mL
	Thallium	0.500	0.49	97.5	ug/mL
	Vanadium	0.500	0.49	98.4	ug/mL
	Zinc	1.00	0.97	97.4	ug/mL

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument: WinLabICP

CAS NO.	Analyte	Concentration mg/kg dry
7429-90-5	Aluminum	250000
7440-36-0	Antimony	5000
7440-38-2	Arsenic	25000
7440-39-3	Barium	12500
7440-41-7	Beryllium	1250
7440-43-9	Cadmium	3000
7440-70-2	Calcium	250000
7440-47-3	Chromium	5000
7440-48-4	Cobalt	12500
7440-50-8	Copper	6250
7439-89-6	Iron	100000
7439-92-1	Lead	15000
7439-95-4	Magnesium	250000
7439-96-5	Manganese	7500
7440-02-0	Nickel	12500
7440-09-7	Potassium	25000
7782-49-2	Selenium	10000
7440-22-4	Silver	6250
7440-23-5	Sodium	125000
7440-28-0	Thallium	12500
7440-62-2	Vanadium	12500
7440-66-6	Zinc	3000

IEC File Last Saved: 2/5/2020 4:01:53 PM
Printed On: 2/5/2020 4:02:18 PM

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	-0.025	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	0.07	0
10	**Co 228.616**	0	0	-0.015	0
11	**Cr 267.716**	0	0	-0.045	0
12	**Cu 324.752**	0	0	-0.01	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	-0.175	0
19	**Na 330.237**	0	-0.983571	-4.63141	0
21	**Ni 232.003**	0	0	-0.025	0
22	**Pb 220.353**	-0.129664	-0.0141428	0.055	0
23	**Sb 206.836**	0.000505	0	-0.135	0
24	**Se 196.026**	0	0	0.63	0
25	**Tl 190.801**	0	0	-0.18	0
26	**V 292.402**	0	0	0.015	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	0.035	0

IEC File Last Saved: 2/11/2020 12:28:38 PM
Printed On: 2/11/2020 12:28:49 PM

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	-0.03	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	-0.185	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	-0.01	0
11	**Cr 267.716**	0	0	-0.04	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	-0.165	0
19	**Na 330.237**	0	-0.983571	-4.63141	0
21	**Ni 232.003**	0	0	0.055	0
22	**Pb 220.353**	-0.129664	-0.0141428	0.075	0
23	**Sb 206.836**	0.000505	0	-0.12	0
24	**Se 196.026**	0	0	0.505	0
25	**Tl 190.801**	0	0	-0.175	0
26	**V 292.402**	0	0	0.07	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	0.035	0

BENCHSHEETS

SDG: 20B0093

CLASS: METALS

METHOD: EPA 6010D

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00168

Preparation Date: 02/05/2020 09:13

York Analytical Laboratories, Inc. **Printed: 2/12/2020 9:41:04AM**

Matrix: Soil **Preparation: EPA 3050B** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0086-01 A	Lead by EPA 6010	0.5	50				
20B0086-01 A	Arsenic by EPA 6010	0.5	50				
20B0086-02 A	Arsenic by EPA 6010	0.5	50				
20B0086-02 A	Lead by EPA 6010	0.5	50				
20B0086-03 A	Arsenic by EPA 6010	0.5	50				
20B0086-03 A	Lead by EPA 6010	0.5	50				
20B0086-04 A	Arsenic by EPA 6010	0.5	50				
20B0086-04 A	Lead by EPA 6010	0.5	50				
20B0086-05 A	Arsenic by EPA 6010	0.5	50				
20B0086-05 A	Lead by EPA 6010	0.5	50				
20B0093-01 E	Metals, Target Analyte	0.5	50				
20B0093-02 E	Metals, Target Analyte	0.5	50				
20B0093-02RE1 E	Metals, Target Analyte	0.5	50				Added 2/5/2020 by BML
20B0093-03 E	Metals, Target Analyte	0.5	50				
20B0093-05 E	Metals, Target Analyte	0.5	50				
20B0093-06 E	Arsenic by EPA 6010	0.5	50				Added for BatchQC in: BB0
20B0093-06 E	Lead by EPA 6010	0.5	50				Added for BatchQC in: BB0
20B0093-06 E	Metals, Target Analyte	0.5	50				
20B0093-07 E	Metals, Target Analyte	0.5	50				
BB00168-BLK1	QC	0.5	50				
BB00168-DUP1	QC	0.5	50		20B0093-06		
BB00168-MS1	QC	0.5	50	Y20A407	20B0093-06	500	
BB00168-PS1	QC	0.1	10	Y19K076	20B0093-06	100	[Spk] 0.5g->50mL; 50mL->5
BB00168-SRM1	QC	0.5	50	Y19J032		500	

Reagents:

ID Number	Description	Lot Number
Y19H427	Hydrogen Peroxide, ACS grade	1112X04
Y19L378	Nitric Acid , ACS Grade 69-70%	0000226537

ID Number	Description	Lot Number
Y19K137	Hydrochloric Acid , ACS Grade	0000240241

Preparations Performed by **SY** **Date:** **02/05/2020 09:13**

Sample Information Detail Report
Document Name: 020520B

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	qbi020520B
Analyst Name	JAM
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	BB00188-BLK1	
10	102	BB00188-LBK1	
11	103	BB00188-BS1	
12	104	19L1061-01	
13	105	20A1020-01	
14	106	20A1054-02	
15	107	20A1064-01	
16	108	20A1096-01	
17	109	20A1096-02	
18	110	20A1124-02	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	20A1143-01	
22	112	20A1157-01	
23	113	20B0025-01	
24	114	20B0037-06	
25	115	20B0040-01	
26	116	BB00188-DUP1	
27	117	BB00188-MS1	
28	118	BB00188-PS1	
29	119	SEQ-SRD1	20B0037-06
30	120	BB00168-BLK1	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	BB00168-SRM1	
34	122	20B0086-01	
35	123	20B0086-02	
36	124	20B0086-03	
37	125	20B0086-04	
38	126	20B0086-05	
39	127	20B0093-01	
40	128	20B0093-02	
41	129	20B0093-03	
42	130	20B0093-05	
43	9	SEQ-CCV4	
44	4	SEQ-CCB4	
45	131	20B0093-06	
46	132	BB00168-DUP1	
47	133	BB00168-MS1	
48	134	BB00168-PS1	
49	135	20B0093-07	
50	136	SEQ-SRD2	
51	9	SEQ-CCV5	
52	4	SEQ-CCB5	
53	5	SEQ-CRL3	
54	6	SEQ-CRL4	
55	7	SEQ-IFA2	

56	8	SEQ-IFB2
57	405	SEQ-HCV1
58	1	BLANK1
59	1	BLANK2
60	9	SEQ-CCV6
61	4	SEQ-CCB6

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/5/2020 3:20:04 PM
Data Type: Reprocessed on 2/6/2020 11:35:35 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	16010033.4	102157.44	0.64%	5.000	mg/L
Y RADIAL	222793.7	1829.52	0.82%	5.000	mg/L
As 188.979†	-47.8	3.86	8.08%	[0.00]	mg/L
Tl 190.801†	-73.3	9.33	12.73%	[0.00]	mg/L
Se 196.026†	66.7	15.92	23.85%	[0.00]	mg/L
Zn 206.200†	-202.6	7.62	3.76%	[0.00]	mg/L
Sb 206.836†	75.0	7.33	9.78%	[0.00]	mg/L
Pb 220.353†	189.0	6.53	3.46%	[0.00]	mg/L
Cd 226.502†	-375.6	19.71	5.25%	[0.00]	mg/L
Co 228.616†	0.0	9.46	>999.9%	[0.00]	mg/L
Ni 232.003†	-1046.8	34.24	3.27%	[0.00]	mg/L
Ba 233.527†	70.8	10.99	15.51%	[0.00]	mg/L
Mn 257.610†	777.9	4.07	0.52%	[0.00]	mg/L
Cr 267.716†	-163.0	20.95	12.85%	[0.00]	mg/L
Fe 273.955†	-303.2	12.82	4.23%	[0.00]	mg/L
Mg 279.077†	-1228.5	47.38	3.86%	[0.00]	mg/L
V 292.402†	-383.0	93.22	24.34%	[0.00]	mg/L
Al 308.215†	12296.6	176.71	1.44%	[0.00]	mg/L
Be 313.107†	-9757.8	147.96	1.52%	[0.00]	mg/L
Cu 324.752†	3281.4	101.06	3.08%	[0.00]	mg/L
Ag 338.289†	1657.7	100.73	6.08%	[0.00]	mg/L
Na 330.237†	-498.9	64.01	12.83%	[0.00]	mg/L
Ca 227.546†	-534.8	15.37	2.87%	[0.00]	mg/L
Al RADIAL†	403.5	17.04	4.22%	[0.00]	mg/L
Fe RADIAL†	-6.5	6.24	95.80%	[0.00]	mg/L
Ca RADIAL†	1651.9	24.38	1.48%	[0.00]	mg/L
K RADIAL†	-1461.1	87.38	5.98%	[0.00]	mg/L
Mg RADIAL†	-63.3	3.86	6.10%	[0.00]	mg/L
Na RADIAL†	244.0	6.62	2.71%	[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: 2/5/2020 3:23:01 PM
Data Type: Reprocessed on 2/6/2020 11:35:37 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	15695719.3	291711.99	1.86%	4.902	mg/L
Y RADIAL	222887.2	1718.37	0.77%	5.002	mg/L
As 188.979†	1579.8	38.22	2.42%	[1.0000]	mg/L
Tl 190.801†	2061.0	50.48	2.45%	[1.0000]	mg/L
Se 196.026†	2224.3	58.27	2.62%	[1.0000]	mg/L
Zn 206.200†	167405.4	3664.98	2.19%	[5.0000]	mg/L
Sb 206.836†	1206.6	39.47	3.27%	[0.5000]	mg/L
Pb 220.353†	11347.1	229.19	2.02%	[1.0000]	mg/L
Cd 226.502†	71181.7	1325.78	1.86%	[0.5000]	mg/L
Co 228.616†	179903.4	3468.77	1.93%	[5.0000]	mg/L
Ni 232.003†	91425.0	1778.94	1.95%	[5.0000]	mg/L
Ba 233.527†	1620969.6	31778.83	1.96%	[20.0000]	mg/L
Mn 257.610†	3241358.2	60053.10	1.85%	[5.0000]	mg/L
Cr 267.716†	286556.1	5626.76	1.96%	[2.0000]	mg/L
Fe 273.955†	208630.8	3966.36	1.90%	[10.0000]	mg/L
Mg 279.077†	924845.4	17888.70	1.93%	[50.0000]	mg/L
V 292.402†	1221014.8	23464.90	1.92%	[5.0000]	mg/L
Al 308.215†	360927.9	7092.60	1.97%	[20.0000]	mg/L
Be 313.107†	2366894.6	44793.44	1.89%	[0.5000]	mg/L
Cu 324.752†	640366.0	11772.35	1.84%	[2.5000]	mg/L
Ag 338.289†	295797.0	5257.41	1.78%	[2.5000]	mg/L
Na 330.237†	34878.8	591.01	1.69%	[50.0000]	mg/L
Ca 227.546†	11416.1	245.96	2.15%	[50.0000]	mg/L
Al RADIAL†	26314.0	35.07	0.13%	[20.0000]	mg/L
Fe RADIAL†	3034.5	26.43	0.87%	[10.0000]	mg/L
Ca RADIAL†	235350.1	194.05	0.08%	[50.0000]	mg/L
K RADIAL†	12117.3	34.37	0.28%	[10.0000]	mg/L
Mg RADIAL†	16964.9	102.14	0.60%	[50.0000]	mg/L
Na RADIAL†	209392.7	341.18	0.16%	[50.0000]	mg/L

Sequence No.: 3
Sample ID: SEQ-ICV1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/5/2020 3:26:01 PM
Data Type: Reprocessed on 2/6/2020 11:35:38 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	16033519.5	5.007	mg/L	0.0262				0.52%
Y RADIAL	226641.8	5.086	mg/L	0.0194				0.38%
As 188.979†	395.6	0.2509	mg/L	0.00579	0.2509	mg/L	0.00579	2.31%
Tl 190.801†	488.3	0.2379	mg/L	0.00351	0.2379	mg/L	0.00351	1.48%
Se 196.026†	599.7	0.2664	mg/L	0.00366	0.2664	mg/L	0.00366	1.37%
Zn 206.200†	86669.9	2.588	mg/L	0.0174	2.588	mg/L	0.0174	0.67%
Sb 206.836†	658.8	0.2737	mg/L	0.00681	0.2737	mg/L	0.00681	2.49%
Pb 220.353†	2795.7	0.2478	mg/L	0.00224	0.2478	mg/L	0.00224	0.90%
Cd 226.502†	17946.3	0.1257	mg/L	0.00100	0.1257	mg/L	0.00100	0.79%
Co 228.616†	93424.0	2.597	mg/L	0.0201	2.597	mg/L	0.0201	0.78%
Ni 232.003†	46825.5	2.561	mg/L	0.0177	2.561	mg/L	0.0177	0.69%
Ba 233.527†	824410.0	10.17	mg/L	0.045	10.17	mg/L	0.045	0.44%
Mn 257.610†	1665372.5	2.570	mg/L	0.0133	2.570	mg/L	0.0133	0.52%
Cr 267.716†	150725.8	1.052	mg/L	0.0084	1.052	mg/L	0.0084	0.80%
Fe 273.955†	108429.3	5.197	mg/L	0.0421	5.197	mg/L	0.0421	0.81%
Mg 279.077†	464989.4	25.14	mg/L	0.117	25.14	mg/L	0.117	0.47%
V 292.402†	615639.4	2.521	mg/L	0.0073	2.521	mg/L	0.0073	0.29%
Al 308.215†	183608.2	10.17	mg/L	0.088	10.17	mg/L	0.088	0.86%
Be 313.107†	1188858.2	0.25114	mg/L	0.001130	0.25114	mg/L	0.001130	0.45%
Cu 324.752†	321651.8	1.256	mg/L	0.0048	1.256	mg/L	0.0048	0.38%
Ag 338.289†	154720.8	1.308	mg/L	0.0103	1.308	mg/L	0.0103	0.79%
Na 330.237†	16886.9	24.26	mg/L	0.150	24.26	mg/L	0.150	0.62%
Ca 227.546†	5578.8	24.49	mg/L	0.119	24.49	mg/L	0.119	0.49%
Al RADIAL†	13918.2	10.58	mg/L	0.061	10.58	mg/L	0.061	0.58%
Fe RADIAL†	1544.4	5.089	mg/L	0.0420	5.089	mg/L	0.0420	0.82%
Ca RADIAL†	119720.4	25.43	mg/L	0.049	25.43	mg/L	0.049	0.19%
K RADIAL†	6197.4	5.114	mg/L	0.0586	5.114	mg/L	0.0586	1.15%
Mg RADIAL†	8607.4	25.37	mg/L	0.136	25.37	mg/L	0.136	0.54%
Na RADIAL†	107748.5	25.73	mg/L	0.073	25.73	mg/L	0.073	0.28%

Sequence No.: 4
Sample ID: SEQ-ICB1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/5/2020 3:29:07 PM
Data Type: Reprocessed on 2/6/2020 11:35:39 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	16309026.6	5.093	mg/L	0.0155				0.30%
Y RADIAL	228580.6	5.130	mg/L	0.0144				0.28%
As 188.979†	-3.8	-0.0024	mg/L	0.00316	-0.0024	mg/L	0.00316	130.40%
Tl 190.801†	10.0	0.0049	mg/L	0.00243	0.0049	mg/L	0.00243	49.96%
Se 196.026†	-11.8	-0.0053	mg/L	0.00667	-0.0053	mg/L	0.00667	125.53%
Zn 206.200†	-4.7	-0.0001	mg/L	0.00038	-0.0001	mg/L	0.00038	272.23%
Sb 206.836†	-6.1	-0.0025	mg/L	0.00075	-0.0025	mg/L	0.00075	29.78%
Pb 220.353†	-20.0	-0.0018	mg/L	0.00096	-0.0018	mg/L	0.00096	54.50%
Cd 226.502†	13.7	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	109.87%
Co 228.616†	10.1	0.0003	mg/L	0.00018	0.0003	mg/L	0.00018	62.64%
Ni 232.003†	45.3	0.0025	mg/L	0.00097	0.0025	mg/L	0.00097	39.34%
Ba 233.527†	13.5	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	132.83%
Mn 257.610†	37.9	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	126.24%
Cr 267.716†	28.0	0.0002	mg/L	0.00086	0.0002	mg/L	0.00086	438.84%
Fe 273.955†	-5.5	-0.0003	mg/L	0.00068	-0.0003	mg/L	0.00068	260.48%
Mg 279.077†	91.3	0.0049	mg/L	0.00433	0.0049	mg/L	0.00433	87.65%
V 292.402†	-5.7	0.0000	mg/L	0.00028	0.0000	mg/L	0.00028	>999.9%
Al 308.215†	-319.5	-0.0177	mg/L	0.00543	-0.0177	mg/L	0.00543	30.68%
Be 313.107†	205.1	0.00004	mg/L	0.000033	0.00004	mg/L	0.000033	76.18%
Cu 324.752†	-117.5	-0.0005	mg/L	0.00062	-0.0005	mg/L	0.00062	134.42%
Ag 338.289†	-36.0	-0.0003	mg/L	0.00059	-0.0003	mg/L	0.00059	195.20%
Na 330.237†	49.3	0.0706	mg/L	0.15617	0.0706	mg/L	0.15617	221.20%
Ca 227.546†	19.6	0.0859	mg/L	0.07101	0.0859	mg/L	0.07101	82.69%
Al RADIAL†	-24.7	-0.0188	mg/L	0.03070	-0.0188	mg/L	0.03070	163.42%
Fe RADIAL†	-0.4	-0.0013	mg/L	0.00470	-0.0013	mg/L	0.00470	360.23%
Ca RADIAL†	27.2	0.0058	mg/L	0.00494	0.0058	mg/L	0.00494	85.52%
K RADIAL†	91.3	0.0754	mg/L	0.08868	0.0754	mg/L	0.08868	117.63%
Mg RADIAL†	4.6	0.0135	mg/L	0.02756	0.0135	mg/L	0.02756	204.21%
Na RADIAL†	27.0	0.0064	mg/L	0.01043	0.0064	mg/L	0.01043	162.07%

Sequence No.: 5
Sample ID: SEQ-CRL1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/5/2020 3:32:03 PM
Data Type: Reprocessed on 2/6/2020 11:35:40 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16030151.0	5.006	mg/L	0.0304				0.61%
Y RADIAL	224287.2	5.034	mg/L	0.0223				0.44%
As 188.979†	7.7	0.0049	mg/L	0.00318	0.0049	mg/L	0.00318	64.51%
Tl 190.801†	48.8	0.0238	mg/L	0.00466	0.0238	mg/L	0.00466	19.59%
Se 196.026†	53.8	0.0239	mg/L	0.00050	0.0239	mg/L	0.00050	2.08%
Zn 206.200†	1003.6	0.0300	mg/L	0.00046	0.0300	mg/L	0.00046	1.52%
Sb 206.836†	49.2	0.0204	mg/L	0.00226	0.0204	mg/L	0.00226	11.07%
Pb 220.353†	58.9	0.0052	mg/L	0.00186	0.0052	mg/L	0.00186	35.46%
Cd 226.502†	434.7	0.0030	mg/L	0.00015	0.0030	mg/L	0.00015	4.89%
Co 228.616†	154.8	0.0043	mg/L	0.00027	0.0043	mg/L	0.00027	6.31%
Ni 232.003†	138.8	0.0076	mg/L	0.00070	0.0076	mg/L	0.00070	9.26%
Ba 233.527†	2127.6	0.0263	mg/L	0.00023	0.0263	mg/L	0.00023	0.89%
Mn 257.610†	6696.0	0.0104	mg/L	0.00007	0.0104	mg/L	0.00007	0.69%
Cr 267.716†	800.6	0.0056	mg/L	0.00007	0.0056	mg/L	0.00007	1.27%
Fe 273.955†	10411.2	0.4990	mg/L	0.00630	0.4990	mg/L	0.00630	1.26%
Mg 279.077†	9135.5	0.4938	mg/L	0.00777	0.4938	mg/L	0.00777	1.57%
V 292.402†	2410.5	0.0099	mg/L	0.00025	0.0099	mg/L	0.00025	2.54%
Al 308.215†	8541.9	0.4733	mg/L	0.01175	0.4733	mg/L	0.01175	2.48%
Be 313.107†	2229.7	0.00047	mg/L	0.000030	0.00047	mg/L	0.000030	6.35%
Cu 324.752†	10079.9	0.0394	mg/L	0.00047	0.0394	mg/L	0.00047	1.19%
Ag 338.289†	1288.4	0.0109	mg/L	0.00051	0.0109	mg/L	0.00051	4.68%
Na 330.237†	467.3	0.6726	mg/L	0.04990	0.6726	mg/L	0.04990	7.42%
Ca 227.546†	110.6	0.4889	mg/L	0.01970	0.4889	mg/L	0.01970	4.03%
Al RADIAL†	719.9	0.5472	mg/L	0.02016	0.5472	mg/L	0.02016	3.68%
Fe RADIAL†	145.0	0.4778	mg/L	0.01061	0.4778	mg/L	0.01061	2.22%
Ca RADIAL†	2620.3	0.5567	mg/L	0.00426	0.5567	mg/L	0.00426	0.77%
K RADIAL†	649.0	0.5356	mg/L	0.04793	0.5356	mg/L	0.04793	8.95%
Mg RADIAL†	178.2	0.5252	mg/L	0.02944	0.5252	mg/L	0.02944	5.61%
Na RADIAL†	2087.4	0.4985	mg/L	0.01889	0.4985	mg/L	0.01889	3.79%

Sequence No.: 7
Sample ID: SEQ-IFA1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/5/2020 3:37:55 PM
Data Type: Reprocessed on 2/6/2020 11:35:42 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	14384597.2	4.492	mg/L	0.0171				0.38%
Y RADIAL	212793.6	4.776	mg/L	0.0432				0.90%
As 188.979†	-24.1	0.0008	mg/L	0.01027	0.0008	mg/L	0.01027	>999.9%
Tl 190.801†	-69.4	0.0002	mg/L	0.00820	0.0002	mg/L	0.00820	>999.9%
Se 196.026†	263.6	-0.0001	mg/L	0.00966	-0.0001	mg/L	0.00966	>999.9%
Zn 206.200†	215.8	-0.0001	mg/L	0.00160	-0.0001	mg/L	0.00160	>999.9%
Sb 206.836†	-61.2	-0.0002	mg/L	0.00522	-0.0002	mg/L	0.00522	>999.9%
Pb 220.353†	-717.7	0.0008	mg/L	0.00264	0.0008	mg/L	0.00264	342.98%
Cd 226.502†	1977.9	0.0007	mg/L	0.00052	0.0007	mg/L	0.00052	72.76%
Co 228.616†	-74.9	0.0007	mg/L	0.00039	0.0007	mg/L	0.00039	52.93%
Ni 232.003†	-93.9	-0.0004	mg/L	0.00116	-0.0004	mg/L	0.00116	271.71%
Ba 233.527†	373.1	0.0046	mg/L	0.00031	0.0046	mg/L	0.00031	6.65%
Mn 257.610†	-21852.9	-0.0008	mg/L	0.00013	-0.0008	mg/L	0.00013	16.91%
Cr 267.716†	-1224.9	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	144.82%
Fe 273.955†	4105095.3	196.8	mg/L	0.97	196.8	mg/L	0.97	0.49%
Mg 279.077†	9604853.9	519.2	mg/L	1.56	519.2	mg/L	1.56	0.30%
V 292.402†	651.2	-0.0002	mg/L	0.00042	-0.0002	mg/L	0.00042	264.50%
Al 308.215†	10029584.8	555.8	mg/L	1.12	555.8	mg/L	1.12	0.20%
Be 313.107†	-837.7	-0.00018	mg/L	0.000044	-0.00018	mg/L	0.000044	24.77%
Cu 324.752†	-283.9	0.0008	mg/L	0.00013	0.0008	mg/L	0.00013	16.37%
Ag 338.289†	53.2	-0.0004	mg/L	0.00122	-0.0004	mg/L	0.00122	282.51%
Na 330.237†	-716.3	0.3327	mg/L	0.11693	0.3327	mg/L	0.11693	35.15%
Ca 227.546†	121161.6	532.7	mg/L	4.00	532.7	mg/L	4.00	0.75%
Al RADIAL†	683592.3	519.6	mg/L	6.83	519.6	mg/L	6.83	1.31%
Fe RADIAL†	57143.9	188.3	mg/L	0.55	188.3	mg/L	0.55	0.29%
Ca RADIAL†	2332615.8	495.6	mg/L	7.30	495.6	mg/L	7.30	1.47%
K RADIAL†	72.6	0.0599	mg/L	0.06235	0.0599	mg/L	0.06235	104.08%
Mg RADIAL†	164682.1	485.3	mg/L	1.67	485.3	mg/L	1.67	0.34%
Na RADIAL†	240.5	0.0574	mg/L	0.00647	0.0574	mg/L	0.00647	11.27%

Sequence No.: 8
Sample ID: SEQ-IFB1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/5/2020 3:40:23 PM
Data Type: Reprocessed on 2/6/2020 11:35:43 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	14366878.3	4.487	mg/L	0.0162				0.36%
Y RADIAL	210922.8	4.734	mg/L	0.0188				0.40%
As 188.979†	753.7	0.4932	mg/L	0.00987	0.4932	mg/L	0.00987	2.00%
Tl 190.801†	958.0	0.4988	mg/L	0.00896	0.4988	mg/L	0.00896	1.80%
Se 196.026†	1237.3	0.4372	mg/L	0.02317	0.4372	mg/L	0.02317	5.30%
Zn 206.200†	32073.3	0.9513	mg/L	0.00378	0.9513	mg/L	0.00378	0.40%
Sb 206.836†	1166.3	0.5086	mg/L	0.00358	0.5086	mg/L	0.00358	0.70%
Pb 220.353†	10735.3	1.010	mg/L	0.0038	1.010	mg/L	0.0038	0.38%
Cd 226.502†	138674.6	0.9609	mg/L	0.00192	0.9609	mg/L	0.00192	0.20%
Co 228.616†	17559.1	0.4908	mg/L	0.00159	0.4908	mg/L	0.00159	0.32%
Ni 232.003†	18659.1	1.025	mg/L	0.0063	1.025	mg/L	0.0063	0.61%
Ba 233.527†	41207.9	0.5084	mg/L	0.00133	0.5084	mg/L	0.00133	0.26%
Mn 257.610†	297657.0	0.4922	mg/L	0.00079	0.4922	mg/L	0.00079	0.16%
Cr 267.716†	68711.3	0.4881	mg/L	0.00166	0.4881	mg/L	0.00166	0.34%
Fe 273.955†	4072564.6	195.2	mg/L	0.14	195.2	mg/L	0.14	0.07%
Mg 279.077†	9542721.5	515.9	mg/L	1.33	515.9	mg/L	1.33	0.26%
V 292.402†	119431.8	0.4862	mg/L	0.00175	0.4862	mg/L	0.00175	0.36%
Al 308.215†	10015957.6	555.0	mg/L	0.22	555.0	mg/L	0.22	0.04%
Be 313.107†	2339088.6	0.49413	mg/L	0.000518	0.49413	mg/L	0.000518	0.10%
Cu 324.752†	142268.3	0.5573	mg/L	0.00043	0.5573	mg/L	0.00043	0.08%
Ag 338.289†	128346.0	1.084	mg/L	0.0013	1.084	mg/L	0.0013	0.12%
Na 330.237†	229.1	1.687	mg/L	0.0422	1.687	mg/L	0.0422	2.50%
Ca 227.546†	120709.3	530.7	mg/L	0.96	530.7	mg/L	0.96	0.18%
Al RADIAL†	681546.9	518.0	mg/L	3.01	518.0	mg/L	3.01	0.58%
Fe RADIAL†	57347.9	189.0	mg/L	1.21	189.0	mg/L	1.21	0.64%
Ca RADIAL†	2310814.7	490.9	mg/L	3.71	490.9	mg/L	3.71	0.76%
K RADIAL†	28.8	0.0237	mg/L	0.07162	0.0237	mg/L	0.07162	301.59%
Mg RADIAL†	164763.0	485.6	mg/L	3.57	485.6	mg/L	3.57	0.74%
Na RADIAL†	160.0	0.0382	mg/L	0.00953	0.0382	mg/L	0.00953	24.94%

Sequence No.: 9
Sample ID: SEQ-CCV1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/5/2020 3:42:52 PM
Data Type: Reprocessed on 2/6/2020 11:35:43 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	15917272.9	4.971	mg/L	0.0613				1.23%
Y RADIAL	225617.7	5.063	mg/L	0.0357				0.70%
As 188.979†	749.7	0.4749	mg/L	0.01487	0.4749	mg/L	0.01487	3.13%
Tl 190.801†	983.5	0.4781	mg/L	0.00190	0.4781	mg/L	0.00190	0.40%
Se 196.026†	1061.1	0.4739	mg/L	0.01134	0.4739	mg/L	0.01134	2.39%
Zn 206.200†	83052.1	2.480	mg/L	0.0212	2.480	mg/L	0.0212	0.86%
Sb 206.836†	607.3	0.2523	mg/L	0.00198	0.2523	mg/L	0.00198	0.78%
Pb 220.353†	5443.5	0.4811	mg/L	0.00236	0.4811	mg/L	0.00236	0.49%
Cd 226.502†	34964.8	0.2453	mg/L	0.00235	0.2453	mg/L	0.00235	0.96%
Co 228.616†	89617.1	2.491	mg/L	0.0228	2.491	mg/L	0.0228	0.92%
Ni 232.003†	45121.9	2.468	mg/L	0.0236	2.468	mg/L	0.0236	0.96%
Ba 233.527†	807377.7	9.962	mg/L	0.1104	9.962	mg/L	0.1104	1.11%
Mn 257.610†	1608336.3	2.482	mg/L	0.0287	2.482	mg/L	0.0287	1.16%
Cr 267.716†	145151.5	1.013	mg/L	0.0095	1.013	mg/L	0.0095	0.94%
Fe 273.955†	104531.3	5.010	mg/L	0.0474	5.010	mg/L	0.0474	0.95%
Mg 279.077†	451276.6	24.40	mg/L	0.284	24.40	mg/L	0.284	1.16%
V 292.402†	600246.8	2.458	mg/L	0.0297	2.458	mg/L	0.0297	1.21%
Al 308.215†	176950.0	9.804	mg/L	0.1148	9.804	mg/L	0.1148	1.17%
Be 313.107†	1160034.9	0.24505	mg/L	0.002764	0.24505	mg/L	0.002764	1.13%
Cu 324.752†	318903.3	1.245	mg/L	0.0135	1.245	mg/L	0.0135	1.08%
Ag 338.289†	149673.3	1.265	mg/L	0.0162	1.265	mg/L	0.0162	1.28%
Na 330.237†	16271.7	23.37	mg/L	0.376	23.37	mg/L	0.376	1.61%
Ca 227.546†	5450.5	23.92	mg/L	0.143	23.92	mg/L	0.143	0.60%
Al RADIAL†	13559.0	10.31	mg/L	0.084	10.31	mg/L	0.084	0.81%
Fe RADIAL†	1500.8	4.946	mg/L	0.0396	4.946	mg/L	0.0396	0.80%
Ca RADIAL†	116630.8	24.78	mg/L	0.024	24.78	mg/L	0.024	0.10%
K RADIAL†	6080.1	5.018	mg/L	0.0789	5.018	mg/L	0.0789	1.57%
Mg RADIAL†	8298.4	24.46	mg/L	0.175	24.46	mg/L	0.175	0.71%
Na RADIAL†	104870.9	25.04	mg/L	0.068	25.04	mg/L	0.068	0.27%

Sequence No.: 10
Sample ID: SEQ-CCB1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/5/2020 3:45:58 PM
Data Type: Reprocessed on 2/6/2020 11:35:44 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	16200425.8	5.059	mg/L	0.0130				0.26%
Y RADIAL	225392.0	5.058	mg/L	0.0478				0.95%
As 188.979†	-1.0	-0.0006	mg/L	0.00844	-0.0006	mg/L	0.00844	>999.9%
Tl 190.801†	0.9	0.0004	mg/L	0.00336	0.0004	mg/L	0.00336	784.39%
Se 196.026†	-1.2	-0.0005	mg/L	0.00760	-0.0005	mg/L	0.00760	>999.9%
Zn 206.200†	-3.4	-0.0001	mg/L	0.00072	-0.0001	mg/L	0.00072	699.02%
Sb 206.836†	1.8	0.0007	mg/L	0.00377	0.0007	mg/L	0.00377	513.47%
Pb 220.353†	-15.1	-0.0013	mg/L	0.00076	-0.0013	mg/L	0.00076	57.19%
Cd 226.502†	14.9	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	46.92%
Co 228.616†	13.3	0.0004	mg/L	0.00023	0.0004	mg/L	0.00023	62.41%
Ni 232.003†	20.5	0.0011	mg/L	0.00109	0.0011	mg/L	0.00109	96.84%
Ba 233.527†	19.8	0.0002	mg/L	0.00026	0.0002	mg/L	0.00026	106.23%
Mn 257.610†	-16.3	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	209.48%
Cr 267.716†	5.1	0.0000	mg/L	0.00051	0.0000	mg/L	0.00051	>999.9%
Fe 273.955†	46.1	0.0022	mg/L	0.00074	0.0022	mg/L	0.00074	33.50%
Mg 279.077†	127.6	0.0069	mg/L	0.00289	0.0069	mg/L	0.00289	41.87%
V 292.402†	-28.7	-0.0001	mg/L	0.00029	-0.0001	mg/L	0.00029	247.39%
Al 308.215†	-377.9	-0.0209	mg/L	0.00187	-0.0209	mg/L	0.00187	8.92%
Be 313.107†	127.2	0.00003	mg/L	0.000032	0.00003	mg/L	0.000032	120.41%
Cu 324.752†	35.1	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	178.54%
Ag 338.289†	-113.2	-0.0010	mg/L	0.00053	-0.0010	mg/L	0.00053	55.75%
Na 330.237†	-12.1	-0.0173	mg/L	0.07256	-0.0173	mg/L	0.07256	420.27%
Ca 227.546†	23.5	0.1031	mg/L	0.15268	0.1031	mg/L	0.15268	148.05%
Al RADIAL†	-3.2	-0.0024	mg/L	0.01306	-0.0024	mg/L	0.01306	536.34%
Fe RADIAL†	0.7	0.0024	mg/L	0.01889	0.0024	mg/L	0.01889	798.07%
Ca RADIAL†	26.7	0.0057	mg/L	0.00592	0.0057	mg/L	0.00592	104.43%
K RADIAL†	8.4	0.0070	mg/L	0.06575	0.0070	mg/L	0.06575	944.96%
Mg RADIAL†	-3.5	-0.0104	mg/L	0.02992	-0.0104	mg/L	0.02992	288.09%
Na RADIAL†	64.9	0.0155	mg/L	0.01679	0.0155	mg/L	0.01679	108.40%

Sequence No.: 21
Sample ID: SEQ-CCV2
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/5/2020 4:18:15 PM
Data Type: Reprocessed on 2/6/2020 11:35:55 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15507026.3	4.843	mg/L	0.0080				0.16%
Y RADIAL	220374.4	4.946	mg/L	0.0398				0.80%
As 188.979†	750.4	0.4754	mg/L	0.00774	0.4754	mg/L	0.00774	1.63%
Tl 190.801†	998.3	0.4853	mg/L	0.00277	0.4853	mg/L	0.00277	0.57%
Se 196.026†	1067.3	0.4767	mg/L	0.00899	0.4767	mg/L	0.00899	1.88%
Zn 206.200†	82141.5	2.453	mg/L	0.0222	2.453	mg/L	0.0222	0.90%
Sb 206.836†	572.2	0.2378	mg/L	0.00648	0.2378	mg/L	0.00648	2.73%
Pb 220.353†	5434.1	0.4803	mg/L	0.00350	0.4803	mg/L	0.00350	0.73%
Cd 226.502†	34535.6	0.2422	mg/L	0.00223	0.2422	mg/L	0.00223	0.92%
Co 228.616†	89425.4	2.485	mg/L	0.0209	2.485	mg/L	0.0209	0.84%
Ni 232.003†	45215.4	2.473	mg/L	0.0239	2.473	mg/L	0.0239	0.97%
Ba 233.527†	803377.0	9.912	mg/L	0.0482	9.912	mg/L	0.0482	0.49%
Mn 257.610†	1602894.7	2.473	mg/L	0.0113	2.473	mg/L	0.0113	0.46%
Cr 267.716†	145291.3	1.014	mg/L	0.0094	1.014	mg/L	0.0094	0.92%
Fe 273.955†	104594.0	5.013	mg/L	0.0462	5.013	mg/L	0.0462	0.92%
Mg 279.077†	447644.2	24.20	mg/L	0.131	24.20	mg/L	0.131	0.54%
V 292.402†	598513.9	2.451	mg/L	0.0126	2.451	mg/L	0.0126	0.52%
Al 308.215†	177874.6	9.855	mg/L	0.0790	9.855	mg/L	0.0790	0.80%
Be 313.107†	1155543.9	0.24411	mg/L	0.001190	0.24411	mg/L	0.001190	0.49%
Cu 324.752†	320714.6	1.252	mg/L	0.0100	1.252	mg/L	0.0100	0.80%
Ag 338.289†	150620.7	1.273	mg/L	0.0073	1.273	mg/L	0.0073	0.58%
Na 330.237†	16361.5	23.50	mg/L	0.193	23.50	mg/L	0.193	0.82%
Ca 227.546†	5471.4	24.01	mg/L	0.176	24.01	mg/L	0.176	0.73%
Al RADIAL†	13599.0	10.34	mg/L	0.086	10.34	mg/L	0.086	0.83%
Fe RADIAL†	1483.6	4.889	mg/L	0.0550	4.889	mg/L	0.0550	1.13%
Ca RADIAL†	116370.2	24.72	mg/L	0.061	24.72	mg/L	0.061	0.25%
K RADIAL†	6040.0	4.985	mg/L	0.0339	4.985	mg/L	0.0339	0.68%
Mg RADIAL†	8228.8	24.25	mg/L	0.269	24.25	mg/L	0.269	1.11%
Na RADIAL†	104829.5	25.03	mg/L	0.114	25.03	mg/L	0.114	0.46%

Sequence No.: 22
Sample ID: SEQ-CCB2
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/5/2020 4:21:21 PM
Data Type: Reprocessed on 2/6/2020 11:35:56 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	16076643.5	5.021	mg/L	0.0541				1.08%
Y RADIAL	223025.2	5.005	mg/L	0.0170				0.34%
As 188.979†	-1.2	-0.0007	mg/L	0.00418	-0.0007	mg/L	0.00418	564.96%
Tl 190.801†	3.3	0.0016	mg/L	0.00316	0.0016	mg/L	0.00316	196.31%
Se 196.026†	-14.6	-0.0065	mg/L	0.00665	-0.0065	mg/L	0.00665	101.60%
Zn 206.200†	2.7	0.0001	mg/L	0.00038	0.0001	mg/L	0.00038	481.14%
Sb 206.836†	-3.0	-0.0012	mg/L	0.00309	-0.0012	mg/L	0.00309	250.31%
Pb 220.353†	-16.9	-0.0015	mg/L	0.00143	-0.0015	mg/L	0.00143	95.81%
Cd 226.502†	8.6	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	216.79%
Co 228.616†	8.2	0.0002	mg/L	0.00032	0.0002	mg/L	0.00032	142.58%
Ni 232.003†	36.1	0.0020	mg/L	0.00039	0.0020	mg/L	0.00039	19.70%
Ba 233.527†	5.9	0.0001	mg/L	0.00018	0.0001	mg/L	0.00018	250.06%
Mn 257.610†	34.0	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	104.60%
Cr 267.716†	-26.9	-0.0002	mg/L	0.00054	-0.0002	mg/L	0.00054	287.85%
Fe 273.955†	-1.4	-0.0001	mg/L	0.00058	-0.0001	mg/L	0.00058	861.99%
Mg 279.077†	120.2	0.0065	mg/L	0.00395	0.0065	mg/L	0.00395	60.81%
V 292.402†	50.4	0.0002	mg/L	0.00024	0.0002	mg/L	0.00024	114.89%
Al 308.215†	-473.8	-0.0263	mg/L	0.00601	-0.0263	mg/L	0.00601	22.89%
Be 313.107†	359.6	0.00008	mg/L	0.000031	0.00008	mg/L	0.000031	40.49%
Cu 324.752†	-21.9	-0.0001	mg/L	0.00010	-0.0001	mg/L	0.00010	111.10%
Ag 338.289†	-103.5	-0.0009	mg/L	0.00053	-0.0009	mg/L	0.00053	60.67%
Na 330.237†	107.2	0.1537	mg/L	0.05516	0.1537	mg/L	0.05516	35.89%
Ca 227.546†	11.0	0.0481	mg/L	0.05360	0.0481	mg/L	0.05360	111.33%
Al RADIAL†	0.2	0.0001	mg/L	0.02307	0.0001	mg/L	0.02307	>999.9%
Fe RADIAL†	-0.6	-0.0020	mg/L	0.00984	-0.0020	mg/L	0.00984	497.67%
Ca RADIAL†	41.9	0.0089	mg/L	0.00119	0.0089	mg/L	0.00119	13.40%
K RADIAL†	-18.4	-0.0152	mg/L	0.01950	-0.0152	mg/L	0.01950	128.08%
Mg RADIAL†	6.8	0.0200	mg/L	0.00900	0.0200	mg/L	0.00900	45.07%
Na RADIAL†	22.1	0.0053	mg/L	0.01542	0.0053	mg/L	0.01542	292.08%

Sequence No.: 32
Sample ID: BB00168-BLK1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 120
Date Collected: 2/5/2020 4:50:41 PM
Data Type: Reprocessed on 2/6/2020 11:36:09 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB00168-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	15964668.2	4.986	mg/L	0.0318				0.64%
Y RADIAL	222302.4	4.989	mg/L	0.0897				1.80%
As 188.979†	-6.0	-0.0038	mg/L	0.00456	-0.0038	mg/L	0.00456	119.56%
Tl 190.801†	-0.3	-0.0001	mg/L	0.00186	-0.0001	mg/L	0.00186	>999.9%
Se 196.026†	2.0	0.0009	mg/L	0.00721	0.0009	mg/L	0.00721	835.51%
Zn 206.200†	-19.4	-0.0006	mg/L	0.00034	-0.0006	mg/L	0.00034	58.77%
Sb 206.836†	-9.8	-0.0041	mg/L	0.00262	-0.0041	mg/L	0.00262	64.57%
Pb 220.353†	-33.2	-0.0029	mg/L	0.00118	-0.0029	mg/L	0.00118	40.30%
Cd 226.502†	6.0	0.0000	mg/L	0.00020	0.0000	mg/L	0.00020	483.56%
Co 228.616†	1.2	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	423.11%
Ni 232.003†	-72.4	-0.0040	mg/L	0.00082	-0.0040	mg/L	0.00082	20.72%
Ba 233.527†	17.3	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	69.03%
Mn 257.610†	125.4	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	38.40%
Cr 267.716†	148.2	0.0010	mg/L	0.00064	0.0010	mg/L	0.00064	62.18%
Fe 273.955†	327.4	0.0157	mg/L	0.00054	0.0157	mg/L	0.00054	3.45%
Mg 279.077†	108.0	0.0058	mg/L	0.00333	0.0058	mg/L	0.00333	57.16%
V 292.402†	45.6	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	72.68%
Al 308.215†	-576.1	-0.0319	mg/L	0.00284	-0.0319	mg/L	0.00284	8.91%
Be 313.107†	292.6	0.00006	mg/L	0.000051	0.00006	mg/L	0.000051	81.71%
Cu 324.752†	-10.3	0.0000	mg/L	0.00028	0.0000	mg/L	0.00028	704.93%
Ag 338.289†	-144.2	-0.0012	mg/L	0.00146	-0.0012	mg/L	0.00146	119.87%
Na 330.237†	267.2	0.3831	mg/L	0.12185	0.3831	mg/L	0.12185	31.81%
Ca 227.546†	-5.2	-0.0224	mg/L	0.03289	-0.0224	mg/L	0.03289	146.87%
Al RADIAL†	-16.0	-0.0122	mg/L	0.04134	-0.0122	mg/L	0.04134	339.46%
Fe RADIAL†	6.7	0.0220	mg/L	0.00517	0.0220	mg/L	0.00517	23.48%
Ca RADIAL†	-8.7	-0.0019	mg/L	0.00359	-0.0019	mg/L	0.00359	193.57%
K RADIAL†	-8.3	-0.0069	mg/L	0.04784	-0.0069	mg/L	0.04784	697.09%
Mg RADIAL†	3.5	0.0103	mg/L	0.03389	0.0103	mg/L	0.03389	329.50%
Na RADIAL†	304.4	0.0727	mg/L	0.02272	0.0727	mg/L	0.02272	31.26%

Sequence No.: 33
Sample ID: SEQ-CCV3
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/5/2020 4:53:39 PM
Data Type: Reprocessed on 2/6/2020 11:36:10 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	15716048.2	4.908	mg/L	0.1671				3.40%
Y RADIAL	226112.8	5.074	mg/L	0.0465				0.92%
As 188.979†	776.4	0.4919	mg/L	0.02210	0.4919	mg/L	0.02210	4.49%
Tl 190.801†	1015.3	0.4935	mg/L	0.01560	0.4935	mg/L	0.01560	3.16%
Se 196.026†	1094.2	0.4889	mg/L	0.02278	0.4889	mg/L	0.02278	4.66%
Zn 206.200†	84091.0	2.511	mg/L	0.0861	2.511	mg/L	0.0861	3.43%
Sb 206.836†	572.7	0.2380	mg/L	0.01378	0.2380	mg/L	0.01378	5.79%
Pb 220.353†	5562.9	0.4917	mg/L	0.01875	0.4917	mg/L	0.01875	3.81%
Cd 226.502†	35349.0	0.2480	mg/L	0.00803	0.2480	mg/L	0.00803	3.24%
Co 228.616†	91466.4	2.542	mg/L	0.0863	2.542	mg/L	0.0863	3.40%
Ni 232.003†	46120.8	2.522	mg/L	0.0850	2.522	mg/L	0.0850	3.37%
Ba 233.527†	823098.2	10.16	mg/L	0.349	10.16	mg/L	0.349	3.44%
Mn 257.610†	1639726.0	2.530	mg/L	0.0896	2.530	mg/L	0.0896	3.54%
Cr 267.716†	148108.7	1.034	mg/L	0.0373	1.034	mg/L	0.0373	3.61%
Fe 273.955†	106445.5	5.102	mg/L	0.1769	5.102	mg/L	0.1769	3.47%
Mg 279.077†	460014.9	24.87	mg/L	0.856	24.87	mg/L	0.856	3.44%
V 292.402†	611189.1	2.503	mg/L	0.0878	2.503	mg/L	0.0878	3.51%
Al 308.215†	180670.0	10.01	mg/L	0.366	10.01	mg/L	0.366	3.66%
Be 313.107†	1181622.1	0.24961	mg/L	0.008578	0.24961	mg/L	0.008578	3.44%
Cu 324.752†	325481.8	1.271	mg/L	0.0450	1.271	mg/L	0.0450	3.54%
Ag 338.289†	152597.7	1.290	mg/L	0.0441	1.290	mg/L	0.0441	3.42%
Na 330.237†	16596.6	23.84	mg/L	0.824	23.84	mg/L	0.824	3.45%
Ca 227.546†	5584.7	24.51	mg/L	0.831	24.51	mg/L	0.831	3.39%
Al RADIAL†	13533.5	10.29	mg/L	0.063	10.29	mg/L	0.063	0.62%
Fe RADIAL†	1492.3	4.918	mg/L	0.0413	4.918	mg/L	0.0413	0.84%
Ca RADIAL†	116998.5	24.86	mg/L	0.067	24.86	mg/L	0.067	0.27%
K RADIAL†	6046.6	4.990	mg/L	0.0769	4.990	mg/L	0.0769	1.54%
Mg RADIAL†	8271.4	24.38	mg/L	0.116	24.38	mg/L	0.116	0.48%
Na RADIAL†	104478.0	24.95	mg/L	0.028	24.95	mg/L	0.028	0.11%

Sequence No.: 34
Sample ID: SEQ-CCB3
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/5/2020 4:56:45 PM
Data Type: Reprocessed on 2/6/2020 11:36:11 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	16487872.7	5.149	mg/L	0.0135				0.26%
Y RADIAL	230984.8	5.184	mg/L	0.0240				0.46%
As 188.979†	-5.7	-0.0036	mg/L	0.00257	-0.0036	mg/L	0.00257	71.73%
Tl 190.801†	5.9	0.0029	mg/L	0.00162	0.0029	mg/L	0.00162	56.21%
Se 196.026†	-13.8	-0.0062	mg/L	0.00223	-0.0062	mg/L	0.00223	35.99%
Zn 206.200†	8.6	0.0003	mg/L	0.00024	0.0003	mg/L	0.00024	92.30%
Sb 206.836†	-4.6	-0.0019	mg/L	0.00427	-0.0019	mg/L	0.00427	225.88%
Pb 220.353†	-14.3	-0.0013	mg/L	0.00130	-0.0013	mg/L	0.00130	102.93%
Cd 226.502†	33.6	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	55.20%
Co 228.616†	14.2	0.0004	mg/L	0.00016	0.0004	mg/L	0.00016	41.32%
Ni 232.003†	37.9	0.0021	mg/L	0.00087	0.0021	mg/L	0.00087	41.97%
Ba 233.527†	16.0	0.0002	mg/L	0.00018	0.0002	mg/L	0.00018	93.51%
Mn 257.610†	8.1	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	147.93%
Cr 267.716†	31.2	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	98.53%
Fe 273.955†	3.1	0.0001	mg/L	0.00059	0.0001	mg/L	0.00059	395.47%
Mg 279.077†	142.0	0.0077	mg/L	0.00139	0.0077	mg/L	0.00139	18.09%
V 292.402†	51.4	0.0002	mg/L	0.00031	0.0002	mg/L	0.00031	145.32%
Al 308.215†	-618.4	-0.0343	mg/L	0.00388	-0.0343	mg/L	0.00388	11.33%
Be 313.107†	364.7	0.00008	mg/L	0.000062	0.00008	mg/L	0.000062	80.58%
Cu 324.752†	-122.4	-0.0005	mg/L	0.00039	-0.0005	mg/L	0.00039	81.12%
Ag 338.289†	-71.9	-0.0006	mg/L	0.00091	-0.0006	mg/L	0.00091	149.40%
Na 330.237†	-18.3	-0.0262	mg/L	0.08721	-0.0262	mg/L	0.08721	332.99%
Ca 227.546†	25.7	0.1128	mg/L	0.02006	0.1128	mg/L	0.02006	17.78%
Al RADIAL†	-28.1	-0.0214	mg/L	0.02731	-0.0214	mg/L	0.02731	127.66%
Fe RADIAL†	3.4	0.0112	mg/L	0.02228	0.0112	mg/L	0.02228	199.47%
Ca RADIAL†	28.2	0.0060	mg/L	0.00227	0.0060	mg/L	0.00227	37.80%
K RADIAL†	40.9	0.0338	mg/L	0.06807	0.0338	mg/L	0.06807	201.47%
Mg RADIAL†	10.9	0.0322	mg/L	0.01186	0.0322	mg/L	0.01186	36.86%
Na RADIAL†	97.2	0.0232	mg/L	0.01245	0.0232	mg/L	0.01245	53.66%

Sequence No.: 35
Sample ID: BB00168-SRM1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 121
Date Collected: 2/5/2020 4:59:41 PM
Data Type: Reprocessed on 2/6/2020 11:36:13 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB00168-SRM1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15764922.3	4.923	mg/L	0.0045				0.09%
Y RADIAL	226172.0	5.076	mg/L	0.0378				0.75%
As 188.979†	1998.5	1.277	mg/L	0.0056	1.277	mg/L	0.0056	0.44%
Tl 190.801†	5164.3	2.530	mg/L	0.0082	2.530	mg/L	0.0082	0.32%
Se 196.026†	5022.1	2.172	mg/L	0.0119	2.172	mg/L	0.0119	0.55%
Zn 206.200†	116780.7	3.483	mg/L	0.0396	3.483	mg/L	0.0396	1.14%
Sb 206.836†	500.1	0.2256	mg/L	0.00130	0.2256	mg/L	0.00130	0.58%
Pb 220.353†	12435.2	1.100	mg/L	0.0048	1.100	mg/L	0.0048	0.43%
Cd 226.502†	57207.5	0.3923	mg/L	0.00447	0.3923	mg/L	0.00447	1.14%
Co 228.616†	75392.4	2.097	mg/L	0.0235	2.097	mg/L	0.0235	1.12%
Ni 232.003†	65384.1	3.579	mg/L	0.0388	3.579	mg/L	0.0388	1.08%
Ba 233.527†	471003.7	5.811	mg/L	0.0641	5.811	mg/L	0.0641	1.10%
Mn 257.610†	2041625.3	3.173	mg/L	0.0306	3.173	mg/L	0.0306	0.96%
Cr 267.716†	83828.2	0.5912	mg/L	0.00653	0.5912	mg/L	0.00653	1.10%
Fe 273.955†	2935517.2	140.7	mg/L	1.44	140.7	mg/L	1.44	1.02%
Mg 279.077†	419973.2	22.68	mg/L	0.264	22.68	mg/L	0.264	1.16%
V 292.402†	295169.3	1.207	mg/L	0.0126	1.207	mg/L	0.0126	1.05%
Al 308.215†	1455726.7	80.67	mg/L	0.813	80.67	mg/L	0.813	1.01%
Be 313.107†	7484860.2	1.5812	mg/L	0.00441	1.5812	mg/L	0.00441	0.28%
Cu 324.752†	212901.4	0.8325	mg/L	0.00805	0.8325	mg/L	0.00805	0.97%
Ag 338.289†	32100.5	0.2742	mg/L	0.00264	0.2742	mg/L	0.00264	0.96%
Na 330.237†	3382.0	5.527	mg/L	0.1538	5.527	mg/L	0.1538	2.78%
Ca 227.546†	10715.5	48.16	mg/L	0.128	48.16	mg/L	0.128	0.27%
Al RADIAL†	106764.2	81.16	mg/L	0.240	81.16	mg/L	0.240	0.30%
Fe RADIAL†	41372.0	136.3	mg/L	0.98	136.3	mg/L	0.98	0.72%
Ca RADIAL†	227104.5	48.25	mg/L	0.047	48.25	mg/L	0.047	0.10%
K RADIAL†	25168.2	20.77	mg/L	0.198	20.77	mg/L	0.198	0.95%
Mg RADIAL†	7591.3	22.36	mg/L	0.086	22.36	mg/L	0.086	0.39%
Na RADIAL†	9389.0	2.242	mg/L	0.0083	2.242	mg/L	0.0083	0.37%

Sequence No.: 41
Sample ID: 20B0093-01
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 127
Date Collected: 2/5/2020 5:14:55 PM
Data Type: Reprocessed on 2/6/2020 11:36:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20B0093-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14956484.6	4.671	mg/L	0.0940				2.01%
Y RADIAL	215650.8	4.840	mg/L	0.0356				0.74%
As 188.979†	69.0	0.0540	mg/L	0.00637	0.0540	mg/L	0.00637	11.80%
Tl 190.801†	-80.4	-0.0171	mg/L	0.00631	-0.0171	mg/L	0.00631	36.87%
Se 196.026†	8.3	-0.0729	mg/L	0.01286	-0.0729	mg/L	0.01286	17.64%
Zn 206.200†	81823.4	2.440	mg/L	0.0729	2.440	mg/L	0.0729	2.99%
Sb 206.836†	-38.9	0.0003	mg/L	0.00462	0.0003	mg/L	0.00462	>999.9%
Pb 220.353†	26768.0	2.364	mg/L	0.0494	2.364	mg/L	0.0494	2.09%
Cd 226.502†	2480.4	0.0089	mg/L	0.00027	0.0089	mg/L	0.00027	2.99%
Co 228.616†	1780.4	0.0513	mg/L	0.00147	0.0513	mg/L	0.00147	2.86%
Ni 232.003†	2458.3	0.1375	mg/L	0.00280	0.1375	mg/L	0.00280	2.04%
Ba 233.527†	132541.4	1.635	mg/L	0.0410	1.635	mg/L	0.0410	2.51%
Mn 257.610†	957952.3	1.499	mg/L	0.0393	1.499	mg/L	0.0393	2.62%
Cr 267.716†	19093.8	0.1387	mg/L	0.00259	0.1387	mg/L	0.00259	1.87%
Fe 273.955†	2578323.3	123.6	mg/L	3.26	123.6	mg/L	3.26	2.64%
Mg 279.077†	690699.9	37.32	mg/L	1.008	37.32	mg/L	1.008	2.70%
V 292.402†	47101.6	0.1911	mg/L	0.00537	0.1911	mg/L	0.00537	2.81%
Al 308.215†	937260.2	51.94	mg/L	1.384	51.94	mg/L	1.384	2.66%
Be 313.107†	-84826.9	-0.01792	mg/L	0.000464	-0.01792	mg/L	0.000464	2.59%
Cu 324.752†	71450.3	0.2802	mg/L	0.00773	0.2802	mg/L	0.00773	2.76%
Ag 338.289†	-576.2	-0.0061	mg/L	0.00164	-0.0061	mg/L	0.00164	27.05%
Na 330.237†	1866.5	3.609	mg/L	0.1962	3.609	mg/L	0.1962	5.44%
Ca 227.546†	83932.4	368.7	mg/L	9.74	368.7	mg/L	9.74	2.64%
Al RADIAL†	69416.5	52.76	mg/L	0.281	52.76	mg/L	0.281	0.53%
Fe RADIAL†	36934.4	121.7	mg/L	0.71	121.7	mg/L	0.71	0.58%
Ca RADIAL†	1768599.4	375.7	mg/L	1.82	375.7	mg/L	1.82	0.48%
K RADIAL†	16394.7	13.53	mg/L	0.121	13.53	mg/L	0.121	0.90%
Mg RADIAL†	12534.8	36.93	mg/L	0.145	36.93	mg/L	0.145	0.39%
Na RADIAL†	7719.4	1.843	mg/L	0.0028	1.843	mg/L	0.0028	0.15%

Sequence No.: 42
Sample ID: 20B0093-02
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 128
Date Collected: 2/5/2020 5:17:22 PM
Data Type: Reprocessed on 2/6/2020 11:36:20 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20B0093-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14484045.7	4.523	mg/L	0.0083				0.18%
Y RADIAL	211877.1	4.755	mg/L	0.0267				0.56%
As 188.979†	807.2	0.5727	mg/L	0.00588	0.5727	mg/L	0.00588	1.03%
Tl 190.801†	-94.0	0.0852	mg/L	0.00386	0.0852	mg/L	0.00386	4.53%
Se 196.026†	-310.2	-0.5973	mg/L	0.00091	-0.5973	mg/L	0.00091	0.15%
Zn 206.200†	1572718.7	46.95	mg/L	0.337	46.95	mg/L	0.337	0.72%
Sb 206.836†	-22.9	0.0886	mg/L	0.00233	0.0886	mg/L	0.00233	2.63%
Pb 220.353†	965582.4	85.07	mg/L	0.501	85.07	mg/L	0.501	0.59%
Cd 226.502†	14244.0	0.0492	mg/L	0.00120	0.0492	mg/L	0.00120	2.43%
Co 228.616†	4962.5	0.1488	mg/L	0.00062	0.1488	mg/L	0.00062	0.41%
Ni 232.003†	19248.1	1.071	mg/L	0.0089	1.071	mg/L	0.0089	0.83%
Ba 233.527†	1754328.8	21.65	mg/L	0.105	21.65	mg/L	0.105	0.48%
Mn 257.610†	3087646.6	4.890	mg/L	0.0185	4.890	mg/L	0.0185	0.38%
Cr 267.716†	42799.3	0.3314	mg/L	0.00205	0.3314	mg/L	0.00205	0.62%
Fe 273.955†	14598469.6	699.7	mg/L	0.78	699.7	mg/L	0.78	0.11%
Mg 279.077†	3575384.6	193.2	mg/L	0.88	193.2	mg/L	0.88	0.46%
V 292.402†	120871.3	0.4841	mg/L	0.00268	0.4841	mg/L	0.00268	0.55%
Al 308.215†	943372.8	52.32	mg/L	0.188	52.32	mg/L	0.188	0.36%
Be 313.107†	-42178.5	-0.00891	mg/L	0.000126	-0.00891	mg/L	0.000126	1.42%
Cu 324.752†	681646.1	2.668	mg/L	0.0101	2.668	mg/L	0.0101	0.38%
Ag 338.289†	-985.1	0.0043	mg/L	0.00083	0.0043	mg/L	0.00083	19.28%
Na 330.237†	52321.3	78.85	mg/L	1.133	78.85	mg/L	1.133	1.44%
Ca 227.546†	119474.5	529.6	mg/L	3.48	529.6	mg/L	3.48	0.66%
Al RADIAL†	64169.9	48.83	mg/L	0.071	48.83	mg/L	0.071	0.15%
Fe RADIAL†	220518.9	726.7	mg/L	0.99	726.7	mg/L	0.99	0.14%
Ca RADIAL†	2317470.3	492.3	mg/L	5.13	492.3	mg/L	5.13	1.04%
K RADIAL†	10138.7	8.367	mg/L	0.0818	8.367	mg/L	0.0818	0.98%
Mg RADIAL†	61970.9	182.6	mg/L	0.30	182.6	mg/L	0.30	0.17%
Na RADIAL†	17747.0	4.238	mg/L	0.0083	4.238	mg/L	0.0083	0.20%

Sequence No.: 43
Sample ID: 20B0093-03
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 129
Date Collected: 2/5/2020 5:19:51 PM
Data Type: Reprocessed on 2/6/2020 11:36:21 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20B0093-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14988149.8	4.681	mg/L	0.0310				0.66%
Y RADIAL	217132.7	4.873	mg/L	0.0385				0.79%
As 188.979†	63.3	0.0526	mg/L	0.00949	0.0526	mg/L	0.00949	18.05%
Tl 190.801†	-122.2	-0.0328	mg/L	0.00449	-0.0328	mg/L	0.00449	13.69%
Se 196.026†	235.6	0.0130	mg/L	0.00939	0.0130	mg/L	0.00939	72.04%
Zn 206.200†	250114.4	7.465	mg/L	0.0361	7.465	mg/L	0.0361	0.48%
Sb 206.836†	-57.8	-0.0041	mg/L	0.00446	-0.0041	mg/L	0.00446	109.39%
Pb 220.353†	120967.9	10.67	mg/L	0.080	10.67	mg/L	0.080	0.75%
Cd 226.502†	2908.7	0.0101	mg/L	0.00020	0.0101	mg/L	0.00020	1.94%
Co 228.616†	2955.4	0.0844	mg/L	0.00055	0.0844	mg/L	0.00055	0.65%
Ni 232.003†	5028.6	0.2787	mg/L	0.00248	0.2787	mg/L	0.00248	0.89%
Ba 233.527†	170728.7	2.107	mg/L	0.0114	2.107	mg/L	0.0114	0.54%
Mn 257.610†	2150596.7	3.343	mg/L	0.0196	3.343	mg/L	0.0196	0.59%
Cr 267.716†	26728.9	0.1932	mg/L	0.00106	0.1932	mg/L	0.00106	0.55%
Fe 273.955†	3220424.0	154.4	mg/L	0.93	154.4	mg/L	0.93	0.61%
Mg 279.077†	3004886.6	162.4	mg/L	1.03	162.4	mg/L	1.03	0.64%
V 292.402†	115520.9	0.4708	mg/L	0.00401	0.4708	mg/L	0.00401	0.85%
Al 308.215†	1599991.8	88.66	mg/L	0.525	88.66	mg/L	0.525	0.59%
Be 313.107†	-157570.7	-0.03329	mg/L	0.000645	-0.03329	mg/L	0.000645	1.94%
Cu 324.752†	135763.1	0.5315	mg/L	0.00227	0.5315	mg/L	0.00227	0.43%
Ag 338.289†	-1134.2	-0.0088	mg/L	0.00205	-0.0088	mg/L	0.00205	23.29%
Na 330.237†	6542.8	10.32	mg/L	0.132	10.32	mg/L	0.132	1.28%
Ca 227.546†	59096.9	260.2	mg/L	1.64	260.2	mg/L	1.64	0.63%
Al RADIAL†	111593.9	84.82	mg/L	0.038	84.82	mg/L	0.038	0.05%
Fe RADIAL†	44734.2	147.4	mg/L	0.50	147.4	mg/L	0.50	0.34%
Ca RADIAL†	1210786.5	257.2	mg/L	3.06	257.2	mg/L	3.06	1.19%
K RADIAL†	26883.1	22.19	mg/L	0.067	22.19	mg/L	0.067	0.30%
Mg RADIAL†	51518.7	151.8	mg/L	0.41	151.8	mg/L	0.41	0.27%
Na RADIAL†	8665.9	2.069	mg/L	0.0416	2.069	mg/L	0.0416	2.01%

Sequence No.: 44
Sample ID: 20B0093-05
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 130
Date Collected: 2/5/2020 5:22:18 PM
Data Type: Reprocessed on 2/6/2020 11:36:22 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20B0093-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16035701.2	5.008	mg/L	0.0515				1.03%
Y RADIAL	232281.3	5.213	mg/L	0.0199				0.38%
As 188.979†	21.5	0.0200	mg/L	0.00287	0.0200	mg/L	0.00287	14.34%
Tl 190.801†	-19.5	0.0041	mg/L	0.00495	0.0041	mg/L	0.00495	121.97%
Se 196.026†	-54.1	-0.0716	mg/L	0.00321	-0.0716	mg/L	0.00321	4.48%
Zn 206.200†	95187.1	2.840	mg/L	0.0484	2.840	mg/L	0.0484	1.71%
Sb 206.836†	-18.1	0.0026	mg/L	0.00310	0.0026	mg/L	0.00310	118.31%
Pb 220.353†	22082.6	1.945	mg/L	0.0434	1.945	mg/L	0.0434	2.23%
Cd 226.502†	1208.6	0.0032	mg/L	0.00014	0.0032	mg/L	0.00014	4.22%
Co 228.616†	1258.5	0.0361	mg/L	0.00040	0.0361	mg/L	0.00040	1.12%
Ni 232.003†	2363.4	0.1311	mg/L	0.00271	0.1311	mg/L	0.00271	2.07%
Ba 233.527†	159180.9	1.964	mg/L	0.0339	1.964	mg/L	0.0339	1.72%
Mn 257.610†	259822.7	0.4139	mg/L	0.00620	0.4139	mg/L	0.00620	1.50%
Cr 267.716†	10608.9	0.0774	mg/L	0.00102	0.0774	mg/L	0.00102	1.32%
Fe 273.955†	1629365.0	78.10	mg/L	0.540	78.10	mg/L	0.540	0.69%
Mg 279.077†	66884.4	3.604	mg/L	0.0533	3.604	mg/L	0.0533	1.48%
V 292.402†	25192.7	0.1020	mg/L	0.00165	0.1020	mg/L	0.00165	1.61%
Al 308.215†	406387.5	22.52	mg/L	0.155	22.52	mg/L	0.155	0.69%
Be 313.107†	-17659.6	-0.00373	mg/L	0.000065	-0.00373	mg/L	0.000065	1.75%
Cu 324.752†	166502.3	0.6508	mg/L	0.01074	0.6508	mg/L	0.01074	1.65%
Ag 338.289†	-395.4	-0.0017	mg/L	0.00020	-0.0017	mg/L	0.00020	11.84%
Na 330.237†	3253.4	5.031	mg/L	0.1347	5.031	mg/L	0.1347	2.68%
Ca 227.546†	4211.8	19.11	mg/L	0.164	19.11	mg/L	0.164	0.86%
Al RADIAL†	31545.3	23.98	mg/L	0.054	23.98	mg/L	0.054	0.22%
Fe RADIAL†	22772.7	75.05	mg/L	0.117	75.05	mg/L	0.117	0.16%
Ca RADIAL†	91931.2	19.53	mg/L	0.038	19.53	mg/L	0.038	0.19%
K RADIAL†	2927.9	2.416	mg/L	0.0420	2.416	mg/L	0.0420	1.74%
Mg RADIAL†	1206.2	3.548	mg/L	0.0436	3.548	mg/L	0.0436	1.23%
Na RADIAL†	8197.3	1.957	mg/L	0.0225	1.957	mg/L	0.0225	1.15%

Sequence No.: 45
Sample ID: SEQ-CCV4
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/5/2020 5:25:23 PM
Data Type: Reprocessed on 2/6/2020 11:36:23 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	15606834.9	4.874	mg/L	0.0148				0.30%
Y RADIAL	223547.8	5.017	mg/L	0.0354				0.71%
As 188.979†	750.0	0.4752	mg/L	0.01020	0.4752	mg/L	0.01020	2.15%
Tl 190.801†	992.2	0.4823	mg/L	0.00312	0.4823	mg/L	0.00312	0.65%
Se 196.026†	1068.5	0.4773	mg/L	0.01474	0.4773	mg/L	0.01474	3.09%
Zn 206.200†	82741.5	2.471	mg/L	0.0164	2.471	mg/L	0.0164	0.66%
Sb 206.836†	558.8	0.2322	mg/L	0.00536	0.2322	mg/L	0.00536	2.31%
Pb 220.353†	5488.0	0.4851	mg/L	0.00383	0.4851	mg/L	0.00383	0.79%
Cd 226.502†	34843.9	0.2444	mg/L	0.00168	0.2444	mg/L	0.00168	0.69%
Co 228.616†	90933.4	2.527	mg/L	0.0135	2.527	mg/L	0.0135	0.54%
Ni 232.003†	46017.2	2.517	mg/L	0.0108	2.517	mg/L	0.0108	0.43%
Ba 233.527†	815030.8	10.06	mg/L	0.117	10.06	mg/L	0.117	1.17%
Mn 257.610†	1625791.9	2.509	mg/L	0.0304	2.509	mg/L	0.0304	1.21%
Cr 267.716†	147623.4	1.031	mg/L	0.0048	1.031	mg/L	0.0048	0.47%
Fe 273.955†	106067.6	5.084	mg/L	0.0284	5.084	mg/L	0.0284	0.56%
Mg 279.077†	452520.6	24.46	mg/L	0.334	24.46	mg/L	0.334	1.37%
V 292.402†	606764.5	2.485	mg/L	0.0320	2.485	mg/L	0.0320	1.29%
Al 308.215†	181269.7	10.04	mg/L	0.062	10.04	mg/L	0.062	0.62%
Be 313.107†	1169890.4	0.24714	mg/L	0.003268	0.24714	mg/L	0.003268	1.32%
Cu 324.752†	327206.7	1.277	mg/L	0.0065	1.277	mg/L	0.0065	0.51%
Ag 338.289†	152692.9	1.290	mg/L	0.0041	1.290	mg/L	0.0041	0.32%
Na 330.237†	16713.3	24.01	mg/L	0.041	24.01	mg/L	0.041	0.17%
Ca 227.546†	5568.8	24.44	mg/L	0.199	24.44	mg/L	0.199	0.81%
Al RADIAL†	13814.1	10.50	mg/L	0.126	10.50	mg/L	0.126	1.20%
Fe RADIAL†	1499.7	4.942	mg/L	0.0577	4.942	mg/L	0.0577	1.17%
Ca RADIAL†	117154.0	24.89	mg/L	0.029	24.89	mg/L	0.029	0.12%
K RADIAL†	6036.4	4.982	mg/L	0.0451	4.982	mg/L	0.0451	0.90%
Mg RADIAL†	8317.8	24.51	mg/L	0.283	24.51	mg/L	0.283	1.16%
Na RADIAL†	104668.5	24.99	mg/L	0.026	24.99	mg/L	0.026	0.10%

Sequence No.: 46
Sample ID: SEQ-CCB4
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/5/2020 5:28:29 PM
Data Type: Reprocessed on 2/6/2020 11:36:23 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	15686998.9	4.899	mg/L	0.0163				0.33%
Y RADIAL	220156.1	4.941	mg/L	0.0237				0.48%
As 188.979†	2.2	0.0014	mg/L	0.00652	0.0014	mg/L	0.00652	462.86%
Tl 190.801†	6.8	0.0033	mg/L	0.00297	0.0033	mg/L	0.00297	90.46%
Se 196.026†	-14.1	-0.0063	mg/L	0.00689	-0.0063	mg/L	0.00689	108.58%
Zn 206.200†	49.8	0.0015	mg/L	0.00040	0.0015	mg/L	0.00040	26.85%
Sb 206.836†	-4.4	-0.0018	mg/L	0.00488	-0.0018	mg/L	0.00488	265.57%
Pb 220.353†	-8.5	-0.0008	mg/L	0.00062	-0.0008	mg/L	0.00062	81.93%
Cd 226.502†	-2.9	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	418.88%
Co 228.616†	9.8	0.0003	mg/L	0.00029	0.0003	mg/L	0.00029	105.89%
Ni 232.003†	-12.3	-0.0007	mg/L	0.00111	-0.0007	mg/L	0.00111	164.56%
Ba 233.527†	16.9	0.0002	mg/L	0.00037	0.0002	mg/L	0.00037	178.13%
Mn 257.610†	76.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.65%
Cr 267.716†	-0.3	0.0000	mg/L	0.00034	0.0000	mg/L	0.00034	>999.9%
Fe 273.955†	44.1	0.0021	mg/L	0.00078	0.0021	mg/L	0.00078	36.95%
Mg 279.077†	70.4	0.0038	mg/L	0.00405	0.0038	mg/L	0.00405	106.34%
V 292.402†	61.2	0.0003	mg/L	0.00054	0.0003	mg/L	0.00054	216.49%
Al 308.215†	-280.5	-0.0155	mg/L	0.00482	-0.0155	mg/L	0.00482	31.04%
Be 313.107†	95.8	0.00002	mg/L	0.000028	0.00002	mg/L	0.000028	136.84%
Cu 324.752†	-70.7	-0.0003	mg/L	0.00023	-0.0003	mg/L	0.00023	83.02%
Ag 338.289†	-35.8	-0.0003	mg/L	0.00029	-0.0003	mg/L	0.00029	97.20%
Na 330.237†	86.7	0.1244	mg/L	0.10495	0.1244	mg/L	0.10495	84.36%
Ca 227.546†	26.3	0.1152	mg/L	0.11062	0.1152	mg/L	0.11062	96.00%
Al RADIAL†	-20.2	-0.0153	mg/L	0.02301	-0.0153	mg/L	0.02301	150.06%
Fe RADIAL†	3.0	0.0100	mg/L	0.01215	0.0100	mg/L	0.01215	121.23%
Ca RADIAL†	60.3	0.0128	mg/L	0.00196	0.0128	mg/L	0.00196	15.27%
K RADIAL†	2.7	0.0022	mg/L	0.09990	0.0022	mg/L	0.09990	>999.9%
Mg RADIAL†	4.9	0.0145	mg/L	0.00516	0.0145	mg/L	0.00516	35.67%
Na RADIAL†	-11.0	-0.0026	mg/L	0.01450	-0.0026	mg/L	0.01450	553.77%

Sequence No.: 47
Sample ID: 20B0093-06
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 131
Date Collected: 2/5/2020 5:31:25 PM
Data Type: Reprocessed on 2/6/2020 11:36:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20B0093-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14953421.9	4.670	mg/L	0.0358				0.77%
Y RADIAL	216740.9	4.864	mg/L	0.0251				0.52%
As 188.979†	41.6	0.0415	mg/L	0.00913	0.0415	mg/L	0.00913	22.01%
Tl 190.801†	-186.1	-0.0582	mg/L	0.00405	-0.0582	mg/L	0.00405	6.97%
Se 196.026†	136.2	-0.0512	mg/L	0.01060	-0.0512	mg/L	0.01060	20.71%
Zn 206.200†	83619.8	2.491	mg/L	0.0198	2.491	mg/L	0.0198	0.80%
Sb 206.836†	-55.0	0.0012	mg/L	0.00180	0.0012	mg/L	0.00180	145.85%
Pb 220.353†	71587.5	6.320	mg/L	0.0444	6.320	mg/L	0.0444	0.70%
Cd 226.502†	2669.6	0.0063	mg/L	0.00011	0.0063	mg/L	0.00011	1.70%
Co 228.616†	5977.6	0.1688	mg/L	0.00050	0.1688	mg/L	0.00050	0.30%
Ni 232.003†	3803.1	0.2125	mg/L	0.00373	0.2125	mg/L	0.00373	1.75%
Ba 233.527†	303907.8	3.750	mg/L	0.0308	3.750	mg/L	0.0308	0.82%
Mn 257.610†	4627043.7	7.169	mg/L	0.0624	7.169	mg/L	0.0624	0.87%
Cr 267.716†	35796.7	0.2579	mg/L	0.00113	0.2579	mg/L	0.00113	0.44%
Fe 273.955†	3878315.1	185.9	mg/L	1.65	185.9	mg/L	1.65	0.89%
Mg 279.077†	2478796.5	134.0	mg/L	1.20	134.0	mg/L	1.20	0.90%
V 292.402†	88255.7	0.3587	mg/L	0.00267	0.3587	mg/L	0.00267	0.74%
Al 308.215†	2450894.2	135.8	mg/L	1.20	135.8	mg/L	1.20	0.88%
Be 313.107†	-198393.7	-0.04191	mg/L	0.000418	-0.04191	mg/L	0.000418	1.00%
Cu 324.752†	77945.6	0.3061	mg/L	0.00279	0.3061	mg/L	0.00279	0.91%
Ag 338.289†	-1592.8	-0.0122	mg/L	0.00082	-0.0122	mg/L	0.00082	6.74%
Na 330.237†	320.4	1.568	mg/L	0.1313	1.568	mg/L	0.1313	8.37%
Ca 227.546†	66213.0	291.6	mg/L	2.22	291.6	mg/L	2.22	0.76%
Al RADIAL†	171123.7	130.1	mg/L	0.24	130.1	mg/L	0.24	0.18%
Fe RADIAL†	54147.2	178.4	mg/L	0.46	178.4	mg/L	0.46	0.26%
Ca RADIAL†	1349847.9	286.8	mg/L	1.83	286.8	mg/L	1.83	0.64%
K RADIAL†	26922.8	22.22	mg/L	0.046	22.22	mg/L	0.046	0.21%
Mg RADIAL†	42825.6	126.2	mg/L	0.37	126.2	mg/L	0.37	0.30%
Na RADIAL†	7154.8	1.708	mg/L	0.0218	1.708	mg/L	0.0218	1.28%

Sequence No.: 48
Sample ID: BB00168-DUP1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 132
Date Collected: 2/5/2020 5:33:53 PM
Data Type: Reprocessed on 2/6/2020 11:36:26 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB00168-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15024387.8	4.692	mg/L	0.0387				0.83%
Y RADIAL	217271.1	4.876	mg/L	0.0470				0.96%
As 188.979†	61.5	0.0548	mg/L	0.00685	0.0548	mg/L	0.00685	12.51%
Tl 190.801†	-160.6	-0.0445	mg/L	0.00422	-0.0445	mg/L	0.00422	9.50%
Se 196.026†	119.4	-0.0635	mg/L	0.01010	-0.0635	mg/L	0.01010	15.90%
Zn 206.200†	80859.8	2.409	mg/L	0.0162	2.409	mg/L	0.0162	0.67%
Sb 206.836†	-74.7	-0.0059	mg/L	0.00479	-0.0059	mg/L	0.00479	81.35%
Pb 220.353†	97141.9	8.572	mg/L	0.0724	8.572	mg/L	0.0724	0.84%
Cd 226.502†	2737.7	0.0062	mg/L	0.00024	0.0062	mg/L	0.00024	3.79%
Co 228.616†	3559.8	0.1017	mg/L	0.00036	0.1017	mg/L	0.00036	0.36%
Ni 232.003†	4311.6	0.2405	mg/L	0.00298	0.2405	mg/L	0.00298	1.24%
Ba 233.527†	290314.8	3.582	mg/L	0.0308	3.582	mg/L	0.0308	0.86%
Mn 257.610†	2756765.9	4.285	mg/L	0.0321	4.285	mg/L	0.0321	0.75%
Cr 267.716†	40703.0	0.2925	mg/L	0.00229	0.2925	mg/L	0.00229	0.78%
Fe 273.955†	4031461.5	193.2	mg/L	1.48	193.2	mg/L	1.48	0.77%
Mg 279.077†	2459950.4	133.0	mg/L	1.05	133.0	mg/L	1.05	0.79%
V 292.402†	97656.6	0.3971	mg/L	0.00305	0.3971	mg/L	0.00305	0.77%
Al 308.215†	2417160.2	133.9	mg/L	1.16	133.9	mg/L	1.16	0.86%
Be 313.107†	-188375.4	-0.03979	mg/L	0.000720	-0.03979	mg/L	0.000720	1.81%
Cu 324.752†	111243.1	0.4362	mg/L	0.00437	0.4362	mg/L	0.00437	1.00%
Ag 338.289†	-1708.6	-0.0133	mg/L	0.00207	-0.0133	mg/L	0.00207	15.54%
Na 330.237†	210.9	1.470	mg/L	0.1649	1.470	mg/L	0.1649	11.22%
Ca 227.546†	70617.1	311.0	mg/L	3.21	311.0	mg/L	3.21	1.03%
Al RADIAL†	168933.7	128.4	mg/L	0.22	128.4	mg/L	0.22	0.18%
Fe RADIAL†	56447.8	186.0	mg/L	0.57	186.0	mg/L	0.57	0.31%
Ca RADIAL†	1466804.9	311.6	mg/L	3.66	311.6	mg/L	3.66	1.17%
K RADIAL†	26830.0	22.14	mg/L	0.094	22.14	mg/L	0.094	0.42%
Mg RADIAL†	42627.3	125.6	mg/L	0.11	125.6	mg/L	0.11	0.09%
Na RADIAL†	6938.6	1.657	mg/L	0.0167	1.657	mg/L	0.0167	1.01%

Sequence No.: 49
Sample ID: BB00168-MS1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 133
Date Collected: 2/5/2020 5:36:20 PM
Data Type: Reprocessed on 2/6/2020 11:36:27 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB00168-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14781459.4	4.616	mg/L	0.0105				0.23%
Y RADIAL	216457.3	4.858	mg/L	0.0878				1.81%
As 188.979†	3192.1	2.037	mg/L	0.0217	2.037	mg/L	0.0217	1.06%
Tl 190.801†	3957.6	1.954	mg/L	0.0067	1.954	mg/L	0.0067	0.34%
Se 196.026†	4081.9	1.717	mg/L	0.0060	1.717	mg/L	0.0060	0.35%
Zn 206.200†	100786.3	3.004	mg/L	0.0087	3.004	mg/L	0.0087	0.29%
Sb 206.836†	52.2	0.0469	mg/L	0.00379	0.0469	mg/L	0.00379	8.09%
Pb 220.353†	55822.5	4.933	mg/L	0.0259	4.933	mg/L	0.0259	0.52%
Cd 226.502†	9740.9	0.0553	mg/L	0.00017	0.0553	mg/L	0.00017	0.31%
Co 228.616†	21394.1	0.5974	mg/L	0.00206	0.5974	mg/L	0.00206	0.35%
Ni 232.003†	13079.3	0.7200	mg/L	0.00805	0.7200	mg/L	0.00805	1.12%
Ba 233.527†	413931.9	5.107	mg/L	0.0140	5.107	mg/L	0.0140	0.27%
Mn 257.610†	3443199.7	5.344	mg/L	0.0117	5.344	mg/L	0.0117	0.22%
Cr 267.716†	63692.4	0.4530	mg/L	0.00104	0.4530	mg/L	0.00104	0.23%
Fe 273.955†	4080827.6	195.6	mg/L	0.51	195.6	mg/L	0.51	0.26%
Mg 279.077†	2497347.1	135.0	mg/L	0.42	135.0	mg/L	0.42	0.31%
V 292.402†	203229.2	0.8294	mg/L	0.00378	0.8294	mg/L	0.00378	0.46%
Al 308.215†	2678289.7	148.4	mg/L	0.31	148.4	mg/L	0.31	0.21%
Be 313.107†	27028.4	0.00571	mg/L	0.000480	0.00571	mg/L	0.000480	8.40%
Cu 324.752†	157163.1	0.6154	mg/L	0.00148	0.6154	mg/L	0.00148	0.24%
Ag 338.289†	4106.1	0.0351	mg/L	0.00112	0.0351	mg/L	0.00112	3.19%
Na 330.237†	1701.0	3.683	mg/L	0.1394	3.683	mg/L	0.1394	3.78%
Ca 227.546†	87972.1	387.0	mg/L	0.88	387.0	mg/L	0.88	0.23%
Al RADIAL†	185431.2	140.9	mg/L	3.14	140.9	mg/L	3.14	2.23%
Fe RADIAL†	56999.2	187.8	mg/L	4.12	187.8	mg/L	4.12	2.19%
Ca RADIAL†	1793483.6	381.0	mg/L	10.17	381.0	mg/L	10.17	2.67%
K RADIAL†	28537.7	23.55	mg/L	0.496	23.55	mg/L	0.496	2.11%
Mg RADIAL†	43275.4	127.5	mg/L	2.91	127.5	mg/L	2.91	2.28%
Na RADIAL†	13379.5	3.195	mg/L	0.0575	3.195	mg/L	0.0575	1.80%

Sequence No.: 50
Sample ID: BB00168-PS1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 134
Date Collected: 2/5/2020 5:38:47 PM
Data Type: Reprocessed on 2/6/2020 11:36:28 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB00168-PS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14919221.3	4.659	mg/L	0.0058				0.12%
Y RADIAL	216923.2	4.868	mg/L	0.0384				0.79%
As 188.979†	3299.2	2.104	mg/L	0.0070	2.104	mg/L	0.0070	0.33%
Tl 190.801†	4110.6	2.027	mg/L	0.0158	2.027	mg/L	0.0158	0.78%
Se 196.026†	4232.5	1.787	mg/L	0.0054	1.787	mg/L	0.0054	0.30%
Zn 206.200†	95149.1	2.835	mg/L	0.0154	2.835	mg/L	0.0154	0.54%
Sb 206.836†	591.7	0.2699	mg/L	0.00288	0.2699	mg/L	0.00288	1.07%
Pb 220.353†	100957.4	8.908	mg/L	0.0694	8.908	mg/L	0.0694	0.78%
Cd 226.502†	9807.2	0.0561	mg/L	0.00033	0.0561	mg/L	0.00033	0.58%
Co 228.616†	22046.4	0.6155	mg/L	0.00224	0.6155	mg/L	0.00224	0.36%
Ni 232.003†	13874.2	0.7634	mg/L	0.01047	0.7634	mg/L	0.01047	1.37%
Ba 233.527†	452020.6	5.577	mg/L	0.0364	5.577	mg/L	0.0364	0.65%
Mn 257.610†	3051465.2	4.739	mg/L	0.0278	4.739	mg/L	0.0278	0.59%
Cr 267.716†	69222.0	0.4914	mg/L	0.00291	0.4914	mg/L	0.00291	0.59%
Fe 273.955†	3993883.3	191.4	mg/L	1.21	191.4	mg/L	1.21	0.63%
Mg 279.077†	2438999.3	131.8	mg/L	0.88	131.8	mg/L	0.88	0.67%
V 292.402†	219426.9	0.8958	mg/L	0.00619	0.8958	mg/L	0.00619	0.69%
Al 308.215†	2438280.7	135.1	mg/L	0.92	135.1	mg/L	0.92	0.68%
Be 313.107†	47607.1	0.01006	mg/L	0.000243	0.01006	mg/L	0.000243	2.42%
Cu 324.752†	181348.5	0.7098	mg/L	0.00442	0.7098	mg/L	0.00442	0.62%
Ag 338.289†	1356.0	0.0126	mg/L	0.00166	0.0126	mg/L	0.00166	13.17%
Na 330.237†	1389.3	3.142	mg/L	0.1093	3.142	mg/L	0.1093	3.48%
Ca 227.546†	70105.6	308.7	mg/L	2.20	308.7	mg/L	2.20	0.71%
Al RADIAL†	169769.1	129.0	mg/L	0.35	129.0	mg/L	0.35	0.27%
Fe RADIAL†	55578.9	183.2	mg/L	0.28	183.2	mg/L	0.28	0.15%
Ca RADIAL†	1443889.0	306.8	mg/L	5.00	306.8	mg/L	5.00	1.63%
K RADIAL†	27888.7	23.02	mg/L	0.097	23.02	mg/L	0.097	0.42%
Mg RADIAL†	42127.6	124.1	mg/L	0.34	124.1	mg/L	0.34	0.28%
Na RADIAL†	11212.8	2.677	mg/L	0.0194	2.677	mg/L	0.0194	0.73%

Sequence No.: 51
Sample ID: 20B0093-07
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 135
Date Collected: 2/5/2020 5:41:14 PM
Data Type: Reprocessed on 2/6/2020 11:36:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20B0093-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14546059.3	4.543	mg/L	0.0257				0.56%
Y RADIAL	216410.2	4.857	mg/L	0.0421				0.87%
As 188.979†	33.5	0.0295	mg/L	0.00315	0.0295	mg/L	0.00315	10.69%
Tl 190.801†	-49.9	-0.0067	mg/L	0.00289	-0.0067	mg/L	0.00289	43.35%
Se 196.026†	308.9	0.0774	mg/L	0.01416	0.0774	mg/L	0.01416	18.28%
Zn 206.200†	102314.2	3.052	mg/L	0.0292	3.052	mg/L	0.0292	0.95%
Sb 206.836†	-25.3	0.0027	mg/L	0.00229	0.0027	mg/L	0.00229	85.58%
Pb 220.353†	18149.5	1.606	mg/L	0.0178	1.606	mg/L	0.0178	1.11%
Cd 226.502†	1729.5	0.0053	mg/L	0.00037	0.0053	mg/L	0.00037	6.94%
Co 228.616†	1054.9	0.0308	mg/L	0.00048	0.0308	mg/L	0.00048	1.56%
Ni 232.003†	2418.0	0.1347	mg/L	0.00124	0.1347	mg/L	0.00124	0.92%
Ba 233.527†	129012.2	1.592	mg/L	0.0140	1.592	mg/L	0.0140	0.88%
Mn 257.610†	1244728.0	1.937	mg/L	0.0132	1.937	mg/L	0.0132	0.68%
Cr 267.716†	22248.2	0.1597	mg/L	0.00106	0.1597	mg/L	0.00106	0.66%
Fe 273.955†	2152375.8	103.2	mg/L	0.80	103.2	mg/L	0.80	0.78%
Mg 279.077†	3906634.3	211.2	mg/L	1.65	211.2	mg/L	1.65	0.78%
V 292.402†	27817.9	0.1125	mg/L	0.00087	0.1125	mg/L	0.00087	0.78%
Al 308.215†	772223.9	42.78	mg/L	0.331	42.78	mg/L	0.331	0.77%
Be 313.107†	-31580.1	-0.00667	mg/L	0.000116	-0.00667	mg/L	0.000116	1.73%
Cu 324.752†	221378.7	0.8652	mg/L	0.00658	0.8652	mg/L	0.00658	0.76%
Ag 338.289†	83.1	-0.0019	mg/L	0.00176	-0.0019	mg/L	0.00176	93.38%
Na 330.237†	3844.5	6.401	mg/L	0.0500	6.401	mg/L	0.0500	0.78%
Ca 227.546†	106708.3	468.2	mg/L	4.31	468.2	mg/L	4.31	0.92%
Al RADIAL†	53485.3	40.65	mg/L	0.031	40.65	mg/L	0.031	0.08%
Fe RADIAL†	29591.8	97.52	mg/L	0.176	97.52	mg/L	0.176	0.18%
Ca RADIAL†	2095628.7	445.2	mg/L	3.25	445.2	mg/L	3.25	0.73%
K RADIAL†	7093.7	5.854	mg/L	0.0617	5.854	mg/L	0.0617	1.05%
Mg RADIAL†	66109.6	194.8	mg/L	0.85	194.8	mg/L	0.85	0.43%
Na RADIAL†	11472.2	2.739	mg/L	0.0048	2.739	mg/L	0.0048	0.18%

Sequence No.: 52
Sample ID: SEQ-SRD2
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 136
Date Collected: 2/5/2020 5:43:40 PM
Data Type: Reprocessed on 2/6/2020 11:36:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-SRD2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15312737.2	4.782	mg/L	0.0153				0.32%
Y RADIAL	217509.2	4.881	mg/L	0.0847				1.74%
As 188.979†	8.9	0.0089	mg/L	0.00462	0.0089	mg/L	0.00462	52.01%
Tl 190.801†	-33.9	-0.0095	mg/L	0.00427	-0.0095	mg/L	0.00427	44.91%
Se 196.026†	39.8	-0.0063	mg/L	0.00584	-0.0063	mg/L	0.00584	92.58%
Zn 206.200†	18355.0	0.5469	mg/L	0.00989	0.5469	mg/L	0.00989	1.81%
Sb 206.836†	-39.2	-0.0111	mg/L	0.00152	-0.0111	mg/L	0.00152	13.71%
Pb 220.353†	20665.1	1.823	mg/L	0.0375	1.823	mg/L	0.0375	2.06%
Cd 226.502†	567.8	0.0013	mg/L	0.00011	0.0013	mg/L	0.00011	8.65%
Co 228.616†	780.7	0.0223	mg/L	0.00064	0.0223	mg/L	0.00064	2.85%
Ni 232.003†	904.0	0.0504	mg/L	0.00350	0.0504	mg/L	0.00350	6.95%
Ba 233.527†	61362.4	0.7571	mg/L	0.01342	0.7571	mg/L	0.01342	1.77%
Mn 257.610†	583805.7	0.9073	mg/L	0.01661	0.9073	mg/L	0.01661	1.83%
Cr 267.716†	8823.3	0.0633	mg/L	0.00084	0.0633	mg/L	0.00084	1.33%
Fe 273.955†	867438.0	41.58	mg/L	0.749	41.58	mg/L	0.749	1.80%
Mg 279.077†	510190.1	27.58	mg/L	0.532	27.58	mg/L	0.532	1.93%
V 292.402†	20533.4	0.0835	mg/L	0.00145	0.0835	mg/L	0.00145	1.73%
Al 308.215†	470805.3	26.09	mg/L	0.489	26.09	mg/L	0.489	1.87%
Be 313.107†	-40359.2	-0.00853	mg/L	0.000215	-0.00853	mg/L	0.000215	2.52%
Cu 324.752†	22185.7	0.0870	mg/L	0.00144	0.0870	mg/L	0.00144	1.66%
Ag 338.289†	-508.2	-0.0040	mg/L	0.00144	-0.0040	mg/L	0.00144	35.69%
Na 330.237†	-200.2	-0.0470	mg/L	0.05179	-0.0470	mg/L	0.05179	110.24%
Ca 227.546†	13894.9	61.21	mg/L	1.235	61.21	mg/L	1.235	2.02%
Al RADIAL†	35066.9	26.65	mg/L	0.670	26.65	mg/L	0.670	2.52%
Fe RADIAL†	11657.6	38.42	mg/L	0.849	38.42	mg/L	0.849	2.21%
Ca RADIAL†	297401.5	63.18	mg/L	1.419	63.18	mg/L	1.419	2.25%
K RADIAL†	5401.6	4.458	mg/L	0.1094	4.458	mg/L	0.1094	2.46%
Mg RADIAL†	8766.8	25.83	mg/L	0.667	25.83	mg/L	0.667	2.58%
Na RADIAL†	1475.8	0.3524	mg/L	0.03281	0.3524	mg/L	0.03281	9.31%

Sequence No.: 53
Sample ID: SEQ-CCV5
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/5/2020 5:46:04 PM
Data Type: Reprocessed on 2/6/2020 11:36:31 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	15520598.6	4.847	mg/L	0.0033				0.07%
Y RADIAL	223600.9	5.018	mg/L	0.0470				0.94%
As 188.979†	780.7	0.4946	mg/L	0.01754	0.4946	mg/L	0.01754	3.55%
Tl 190.801†	1018.0	0.4948	mg/L	0.00403	0.4948	mg/L	0.00403	0.81%
Se 196.026†	1108.0	0.4950	mg/L	0.00992	0.4950	mg/L	0.00992	2.00%
Zn 206.200†	85197.1	2.544	mg/L	0.0085	2.544	mg/L	0.0085	0.33%
Sb 206.836†	588.5	0.2445	mg/L	0.00740	0.2445	mg/L	0.00740	3.03%
Pb 220.353†	5670.5	0.5012	mg/L	0.00284	0.5012	mg/L	0.00284	0.57%
Cd 226.502†	35796.9	0.2511	mg/L	0.00080	0.2511	mg/L	0.00080	0.32%
Co 228.616†	92921.2	2.583	mg/L	0.0070	2.583	mg/L	0.0070	0.27%
Ni 232.003†	46787.0	2.559	mg/L	0.0043	2.559	mg/L	0.0043	0.17%
Ba 233.527†	831433.8	10.26	mg/L	0.078	10.26	mg/L	0.078	0.76%
Mn 257.610†	1656253.1	2.556	mg/L	0.0161	2.556	mg/L	0.0161	0.63%
Cr 267.716†	150254.4	1.049	mg/L	0.0022	1.049	mg/L	0.0022	0.21%
Fe 273.955†	108229.3	5.188	mg/L	0.0140	5.188	mg/L	0.0140	0.27%
Mg 279.077†	464669.6	25.12	mg/L	0.170	25.12	mg/L	0.170	0.68%
V 292.402†	617402.4	2.528	mg/L	0.0155	2.528	mg/L	0.0155	0.61%
Al 308.215†	183920.1	10.19	mg/L	0.025	10.19	mg/L	0.025	0.24%
Be 313.107†	1194521.6	0.25234	mg/L	0.001792	0.25234	mg/L	0.001792	0.71%
Cu 324.752†	330911.1	1.292	mg/L	0.0041	1.292	mg/L	0.0041	0.32%
Ag 338.289†	155112.3	1.311	mg/L	0.0072	1.311	mg/L	0.0072	0.55%
Na 330.237†	16871.5	24.23	mg/L	0.177	24.23	mg/L	0.177	0.73%
Ca 227.546†	5668.7	24.88	mg/L	0.185	24.88	mg/L	0.185	0.74%
Al RADIAL†	13846.2	10.52	mg/L	0.116	10.52	mg/L	0.116	1.11%
Fe RADIAL†	1510.2	4.977	mg/L	0.0443	4.977	mg/L	0.0443	0.89%
Ca RADIAL†	119515.4	25.39	mg/L	0.065	25.39	mg/L	0.065	0.26%
K RADIAL†	6130.1	5.059	mg/L	0.0722	5.059	mg/L	0.0722	1.43%
Mg RADIAL†	8411.0	24.79	mg/L	0.278	24.79	mg/L	0.278	1.12%
Na RADIAL†	105994.4	25.31	mg/L	0.061	25.31	mg/L	0.061	0.24%

Sequence No.: 54
Sample ID: SEQ-CCB5
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/5/2020 5:49:10 PM
Data Type: Reprocessed on 2/6/2020 11:36:31 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	15912039.5	4.969	mg/L	0.0376				0.76%
Y RADIAL	224600.9	5.041	mg/L	0.0372				0.74%
As 188.979†	1.0	0.0007	mg/L	0.00635	0.0007	mg/L	0.00635	954.57%
Tl 190.801†	6.8	0.0033	mg/L	0.00518	0.0033	mg/L	0.00518	158.04%
Se 196.026†	-7.3	-0.0033	mg/L	0.00659	-0.0033	mg/L	0.00659	201.15%
Zn 206.200†	17.4	0.0005	mg/L	0.00026	0.0005	mg/L	0.00026	50.17%
Sb 206.836†	-8.7	-0.0036	mg/L	0.00322	-0.0036	mg/L	0.00322	89.02%
Pb 220.353†	-11.0	-0.0010	mg/L	0.00123	-0.0010	mg/L	0.00123	126.19%
Cd 226.502†	6.1	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	233.31%
Co 228.616†	11.6	0.0003	mg/L	0.00036	0.0003	mg/L	0.00036	112.74%
Ni 232.003†	-11.2	-0.0006	mg/L	0.00098	-0.0006	mg/L	0.00098	159.96%
Ba 233.527†	12.3	0.0002	mg/L	0.00019	0.0002	mg/L	0.00019	125.00%
Mn 257.610†	48.6	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	43.48%
Cr 267.716†	110.2	0.0008	mg/L	0.00074	0.0008	mg/L	0.00074	96.17%
Fe 273.955†	33.9	0.0016	mg/L	0.00041	0.0016	mg/L	0.00041	25.04%
Mg 279.077†	65.1	0.0035	mg/L	0.00431	0.0035	mg/L	0.00431	122.66%
V 292.402†	65.5	0.0003	mg/L	0.00031	0.0003	mg/L	0.00031	116.69%
Al 308.215†	-163.0	-0.0090	mg/L	0.00348	-0.0090	mg/L	0.00348	38.50%
Be 313.107†	-63.4	-0.00001	mg/L	0.000028	-0.00001	mg/L	0.000028	206.63%
Cu 324.752†	-54.6	-0.0002	mg/L	0.00037	-0.0002	mg/L	0.00037	174.03%
Ag 338.289†	-21.7	-0.0002	mg/L	0.00126	-0.0002	mg/L	0.00126	690.29%
Na 330.237†	73.0	0.1048	mg/L	0.21328	0.1048	mg/L	0.21328	203.55%
Ca 227.546†	5.2	0.0230	mg/L	0.09662	0.0230	mg/L	0.09662	420.23%
Al RADIAL†	-25.0	-0.0190	mg/L	0.01475	-0.0190	mg/L	0.01475	77.50%
Fe RADIAL†	5.5	0.0180	mg/L	0.02733	0.0180	mg/L	0.02733	151.77%
Ca RADIAL†	51.6	0.0110	mg/L	0.00346	0.0110	mg/L	0.00346	31.57%
K RADIAL†	-35.2	-0.0290	mg/L	0.11589	-0.0290	mg/L	0.11589	399.35%
Mg RADIAL†	2.9	0.0084	mg/L	0.01169	0.0084	mg/L	0.01169	139.03%
Na RADIAL†	66.4	0.0159	mg/L	0.00301	0.0159	mg/L	0.00301	18.96%

Sample Information Detail Report
Document Name: 021120A

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	qbi021120A
Analyst Name	JAM
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	20B0093-02RE1	RERUN 5X BB00168
10	102	BB00324-BLK1	RERUN
11	103	BB00377-BLK1	
12	104	BB00377-SRM1	
13	105	20B0235-01	
14	106	20B0235-02	
15	107	20B0235-03	
16	108	20B0235-04	
17	109	20B0235-05	
18	110	20B0235-06	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	20B0235-07	
22	112	20B0235-08	
23	113	20B0235-09	
24	114	20B0235-10	
25	115	20B0235-12	
26	116	20B0245-01	
27	117	20B0245-02	
28	118	20B0245-03	
29	119	20B0248-01	
30	120	20B0254-01	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	20B0254-03	
34	122	20B0254-05	
35	123	20B0254-07	
36	124	BB00377-DUP1	
37	125	BB00377-MS1	
38	126	BB00377-PS1	
39	127	SEQ-SRD1	20B0254-07
40	128	BB00459-BLK1	
41	129	BB00459-BS1	
42	130	20B0241-01	
43	9	SEQ-CCV4	
44	4	SEQ-CCB4	
45	131	BB00459-MS2	
46	132	20B0261-01	
47	133	20B0266-08	
48	134	20B0271-01	
49	135	20B0282-01	
50	136	20B0285-01	
51	137	20B0285-02	
52	138	20B0285-03	
53	139	20B0285-04	
54	140	20B0285-05	
55	9	SEQ-CCV5	

56	4	SEQ-CCB5	
57	141	20B0285-06	
58	142	20B0285-07	
59	143	20B0285-08	
60	144	20B0290-02	
61	145	20B0296-02	
62	146	20B0296-03	
63	147	20B0296-04	
64	148	20B0301-01	
65	149	20B0301-02	
66	150	20B0325-01	
67	9	SEQ-CCV6	
68	4	SEQ-CCB6	
69	151	BB00459-DUP1	
70	152	BB00459-MS1	
71	153	BB00459-PS1	
72	154	SEQ-SRD2	20B0266-08
73	155	BB00460-BLK1	
74	156	BB00460-LBK1	
75	157	BB00460-BS1	
76	158	20B0209-01	
77	159	20B0209-02	
78	160	20B0222-01	
79	9	SEQ-CCV7	
80	4	SEQ-CCB7	
81	201	20B0222-02	
82	202	20B0238-01	
83	203	20B0248-01	
84	204	20B0254-01	
85	205	20B0254-03	
86	206	20B0254-05	
87	207	20B0254-07	
88	208	20B0255-01	
89	209	20B0255-03	
90	210	20B0255-05	
91	9	SEQ-CCV8	
92	4	SEQ-CCB8	
93	211	20B0255-07	
94	212	20B0263-01	
95	213	20B0263-03	
96	214	20B0264-02	
97	215	20B0264-04	
98	216	BB00460-DUP1	
99	217	BB00460-MS1	
100	218	BB00460-PS1	
101	219	SEQ-SRD3	20B0264-04
102	220	20B0255-05RE1	RERUN 10X BB00376
103	10	SEQ-CCV9	
104	1	SEQ-CCB9	
105	5	SEQ-CRL3	
106	6	SEQ-CRL4	
107	7	SEQ-IFA2	
108	8	SEQ-IFB2	
109	405	SEQ-HCV1	
110	1	BLANK	
111	1	BLANK	
112	10	SEQ-CCVA	
113	1	SEQ-CCBA	

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/11/2020 11:50:34 AM
Data Type: Reprocessed on 2/12/2020 9:10:40 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	17088144.6	187728.64	1.10%	5.000	mg/L
Y RADIAL	239374.4	10631.18	4.44%	5.000	mg/L
As 188.979†	-52.0	10.44	20.06%	[0.00]	mg/L
Tl 190.801†	-78.8	1.32	1.67%	[0.00]	mg/L
Se 196.026†	45.9	19.00	41.40%	[0.00]	mg/L
Zn 206.200†	-118.5	10.58	8.93%	[0.00]	mg/L
Sb 206.836†	61.3	6.45	10.52%	[0.00]	mg/L
Pb 220.353†	240.2	20.27	8.44%	[0.00]	mg/L
Cd 226.502†	-396.1	16.36	4.13%	[0.00]	mg/L
Co 228.616†	-16.2	8.47	52.22%	[0.00]	mg/L
Ni 232.003†	-1083.1	17.65	1.63%	[0.00]	mg/L
Ba 233.527†	62.3	18.88	30.33%	[0.00]	mg/L
Mn 257.610†	811.2	31.93	3.94%	[0.00]	mg/L
Cr 267.716†	-55.2	36.27	65.67%	[0.00]	mg/L
Fe 273.955†	-328.3	18.82	5.73%	[0.00]	mg/L
Mg 279.077†	-1203.7	87.89	7.30%	[0.00]	mg/L
V 292.402†	-442.0	92.55	20.94%	[0.00]	mg/L
Al 308.215†	14764.1	207.08	1.40%	[0.00]	mg/L
Be 313.107†	-13391.6	272.73	2.04%	[0.00]	mg/L
Cu 324.752†	4365.6	37.50	0.86%	[0.00]	mg/L
Ag 338.289†	2119.3	60.13	2.84%	[0.00]	mg/L
Na 330.237†	-487.1	57.97	11.90%	[0.00]	mg/L
Ca 227.546†	-538.7	15.21	2.82%	[0.00]	mg/L
Al RADIAL†	466.9	53.56	11.47%	[0.00]	mg/L
Fe RADIAL†	-2.8	5.27	190.49%	[0.00]	mg/L
Ca RADIAL†	1644.7	63.59	3.87%	[0.00]	mg/L
K RADIAL†	-1526.4	54.91	3.60%	[0.00]	mg/L
Mg RADIAL†	-63.4	15.32	24.18%	[0.00]	mg/L
Na RADIAL†	365.5	20.77	5.68%	[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: 2/11/2020 11:53:30 AM
Data Type: Reprocessed on 2/12/2020 9:10:43 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	16774226.0	190484.67	1.14%	4.908	mg/L
Y RADIAL	232038.9	5242.25	2.26%	4.847	mg/L
As 188.979†	1649.4	22.63	1.37%	[1.0000]	mg/L
Tl 190.801†	2193.6	23.23	1.06%	[1.0000]	mg/L
Se 196.026†	2296.2	37.61	1.64%	[1.0000]	mg/L
Zn 206.200†	176101.3	891.84	0.51%	[5.0000]	mg/L
Sb 206.836†	1226.6	23.49	1.91%	[0.5000]	mg/L
Pb 220.353†	12214.0	123.28	1.01%	[1.0000]	mg/L
Cd 226.502†	75904.9	538.10	0.71%	[0.5000]	mg/L
Co 228.616†	195499.7	936.51	0.48%	[5.0000]	mg/L
Ni 232.003†	94787.6	620.39	0.65%	[5.0000]	mg/L
Ba 233.527†	1713743.9	9094.54	0.53%	[20.0000]	mg/L
Mn 257.610†	3441410.8	20565.95	0.60%	[5.0000]	mg/L
Cr 267.716†	301742.9	2098.89	0.70%	[2.0000]	mg/L
Fe 273.955†	220500.5	1294.05	0.59%	[10.0000]	mg/L
Mg 279.077†	981836.7	5890.04	0.60%	[50.0000]	mg/L
V 292.402†	1272178.3	7914.39	0.62%	[5.0000]	mg/L
Al 308.215†	379337.2	2536.31	0.67%	[20.0000]	mg/L
Be 313.107†	2517103.4	16527.74	0.66%	[0.5000]	mg/L
Cu 324.752†	668137.1	3952.17	0.59%	[2.5000]	mg/L
Ag 338.289†	305561.4	1736.46	0.57%	[2.5000]	mg/L
Na 330.237†	34905.8	194.57	0.56%	[50.0000]	mg/L
Ca 227.546†	12064.5	91.72	0.76%	[50.0000]	mg/L
Al RADIAL†	28369.4	461.86	1.63%	[20.0000]	mg/L
Fe RADIAL†	3096.1	56.23	1.82%	[10.0000]	mg/L
Ca RADIAL†	243923.7	3129.49	1.28%	[50.0000]	mg/L
K RADIAL†	12352.6	112.21	0.91%	[10.0000]	mg/L
Mg RADIAL†	17727.6	381.16	2.15%	[50.0000]	mg/L
Na RADIAL†	212421.0	3467.42	1.63%	[50.0000]	mg/L

Sequence No.: 3
Sample ID: SEQ-ICV1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/11/2020 11:56:30 AM
Data Type: Reprocessed on 2/12/2020 9:10:44 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	17217065.4	5.038	mg/L	0.0063				0.12%
Y RADIAL	244165.0	5.100	mg/L	0.0289				0.57%
As 188.979†	414.2	0.2520	mg/L	0.00884	0.2520	mg/L	0.00884	3.51%
Tl 190.801†	531.0	0.2429	mg/L	0.00358	0.2429	mg/L	0.00358	1.47%
Se 196.026†	614.5	0.2651	mg/L	0.00468	0.2651	mg/L	0.00468	1.77%
Zn 206.200†	89678.8	2.546	mg/L	0.0250	2.546	mg/L	0.0250	0.98%
Sb 206.836†	677.9	0.2769	mg/L	0.00451	0.2769	mg/L	0.00451	1.63%
Pb 220.353†	3024.7	0.2489	mg/L	0.00125	0.2489	mg/L	0.00125	0.50%
Cd 226.502†	19029.8	0.1250	mg/L	0.00107	0.1250	mg/L	0.00107	0.85%
Co 228.616†	99470.9	2.544	mg/L	0.0173	2.544	mg/L	0.0173	0.68%
Ni 232.003†	47381.7	2.499	mg/L	0.0185	2.499	mg/L	0.0185	0.74%
Ba 233.527†	862210.5	10.06	mg/L	0.058	10.06	mg/L	0.058	0.57%
Mn 257.610†	1735619.7	2.522	mg/L	0.0145	2.522	mg/L	0.0145	0.57%
Cr 267.716†	154830.4	1.026	mg/L	0.0064	1.026	mg/L	0.0064	0.62%
Fe 273.955†	112194.0	5.088	mg/L	0.0280	5.088	mg/L	0.0280	0.55%
Mg 279.077†	486757.5	24.79	mg/L	0.153	24.79	mg/L	0.153	0.62%
V 292.402†	630606.7	2.478	mg/L	0.0143	2.478	mg/L	0.0143	0.58%
Al 308.215†	186477.7	9.831	mg/L	0.0587	9.831	mg/L	0.0587	0.60%
Be 313.107†	1243371.3	0.24698	mg/L	0.001342	0.24698	mg/L	0.001342	0.54%
Cu 324.752†	328044.5	1.228	mg/L	0.0058	1.228	mg/L	0.0058	0.47%
Ag 338.289†	156875.6	1.283	mg/L	0.0031	1.283	mg/L	0.0031	0.25%
Na 330.237†	16300.5	23.40	mg/L	0.144	23.40	mg/L	0.144	0.61%
Ca 227.546†	5767.6	23.95	mg/L	0.201	23.95	mg/L	0.201	0.84%
Al RADIAL†	14215.2	10.02	mg/L	0.074	10.02	mg/L	0.074	0.74%
Fe RADIAL†	1526.1	4.929	mg/L	0.0323	4.929	mg/L	0.0323	0.66%
Ca RADIAL†	119293.3	24.45	mg/L	0.015	24.45	mg/L	0.015	0.06%
K RADIAL†	6161.7	4.988	mg/L	0.0427	4.988	mg/L	0.0427	0.86%
Mg RADIAL†	8713.2	24.57	mg/L	0.160	24.57	mg/L	0.160	0.65%
Na RADIAL†	103743.5	24.42	mg/L	0.057	24.42	mg/L	0.057	0.24%

Sequence No.: 4
Sample ID: SEQ-ICB1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/11/2020 11:59:36 AM
Data Type: Reprocessed on 2/12/2020 9:10:45 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17625840.5	5.157	mg/L	0.0240				0.46%
Y RADIAL	248887.6	5.199	mg/L	0.0451				0.87%
As 188.979†	-5.0	-0.0030	mg/L	0.00200	-0.0030	mg/L	0.00200	65.79%
Tl 190.801†	5.2	0.0023	mg/L	0.00213	0.0023	mg/L	0.00213	90.69%
Se 196.026†	-0.7	-0.0003	mg/L	0.00263	-0.0003	mg/L	0.00263	923.97%
Zn 206.200†	-83.9	-0.0024	mg/L	0.00048	-0.0024	mg/L	0.00048	20.35%
Sb 206.836†	8.3	0.0034	mg/L	0.00241	0.0034	mg/L	0.00241	71.39%
Pb 220.353†	-2.2	-0.0002	mg/L	0.00147	-0.0002	mg/L	0.00147	784.63%
Cd 226.502†	-3.9	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	299.94%
Co 228.616†	3.9	0.0001	mg/L	0.00051	0.0001	mg/L	0.00051	510.29%
Ni 232.003†	-1.3	-0.0001	mg/L	0.00147	-0.0001	mg/L	0.00147	>999.9%
Ba 233.527†	22.1	0.0003	mg/L	0.00018	0.0003	mg/L	0.00018	68.95%
Mn 257.610†	51.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	40.47%
Cr 267.716†	19.3	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	84.24%
Fe 273.955†	7.7	0.0003	mg/L	0.00082	0.0003	mg/L	0.00082	234.05%
Mg 279.077†	3.3	0.0002	mg/L	0.00332	0.0002	mg/L	0.00332	>999.9%
V 292.402†	36.5	0.0001	mg/L	0.00026	0.0001	mg/L	0.00026	178.70%
Al 308.215†	-987.5	-0.0521	mg/L	0.00566	-0.0521	mg/L	0.00566	10.88%
Be 313.107†	102.7	0.00002	mg/L	0.000041	0.00002	mg/L	0.000041	201.00%
Cu 324.752†	-138.8	-0.0005	mg/L	0.00030	-0.0005	mg/L	0.00030	57.70%
Ag 338.289†	-173.7	-0.0014	mg/L	0.00076	-0.0014	mg/L	0.00076	53.20%
Na 330.237†	-39.3	-0.0564	mg/L	0.18274	-0.0564	mg/L	0.18274	324.15%
Ca 227.546†	7.1	0.0293	mg/L	0.05453	0.0293	mg/L	0.05453	186.24%
Al RADIAL†	-75.2	-0.0530	mg/L	0.02882	-0.0530	mg/L	0.02882	54.34%
Fe RADIAL†	-2.7	-0.0088	mg/L	0.01556	-0.0088	mg/L	0.01556	176.99%
Ca RADIAL†	-42.5	-0.0087	mg/L	0.00681	-0.0087	mg/L	0.00681	78.07%
K RADIAL†	18.6	0.0151	mg/L	0.04794	0.0151	mg/L	0.04794	317.88%
Mg RADIAL†	4.6	0.0129	mg/L	0.02730	0.0129	mg/L	0.02730	211.26%
Na RADIAL†	-13.2	-0.0031	mg/L	0.00938	-0.0031	mg/L	0.00938	301.94%

Sequence No.: 5
Sample ID: SEQ-CRL1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/11/2020 12:02:32 PM
Data Type: Reprocessed on 2/12/2020 9:10:46 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	17377782.5	5.085	mg/L	0.0465				0.91%
Y RADIAL	245210.2	5.122	mg/L	0.0414				0.81%
As 188.979†	19.6	0.0120	mg/L	0.00511	0.0120	mg/L	0.00511	42.66%
Tl 190.801†	58.0	0.0265	mg/L	0.00335	0.0265	mg/L	0.00335	12.63%
Se 196.026†	51.8	0.0223	mg/L	0.00485	0.0223	mg/L	0.00485	21.73%
Zn 206.200†	1141.7	0.0324	mg/L	0.00072	0.0324	mg/L	0.00072	2.24%
Sb 206.836†	70.6	0.0288	mg/L	0.00200	0.0288	mg/L	0.00200	6.92%
Pb 220.353†	54.9	0.0045	mg/L	0.00079	0.0045	mg/L	0.00079	17.52%
Cd 226.502†	461.9	0.0030	mg/L	0.00011	0.0030	mg/L	0.00011	3.53%
Co 228.616†	174.5	0.0045	mg/L	0.00035	0.0045	mg/L	0.00035	7.86%
Ni 232.003†	132.1	0.0069	mg/L	0.00200	0.0069	mg/L	0.00200	28.84%
Ba 233.527†	2272.7	0.0265	mg/L	0.00015	0.0265	mg/L	0.00015	0.55%
Mn 257.610†	7014.4	0.0103	mg/L	0.00013	0.0103	mg/L	0.00013	1.25%
Cr 267.716†	802.7	0.0053	mg/L	0.00029	0.0053	mg/L	0.00029	5.46%
Fe 273.955†	11168.7	0.5065	mg/L	0.00787	0.5065	mg/L	0.00787	1.55%
Mg 279.077†	9757.5	0.4968	mg/L	0.00756	0.4968	mg/L	0.00756	1.52%
V 292.402†	2572.6	0.0101	mg/L	0.00012	0.0101	mg/L	0.00012	1.15%
Al 308.215†	7799.1	0.4112	mg/L	0.00759	0.4112	mg/L	0.00759	1.84%
Be 313.107†	2628.6	0.00052	mg/L	0.000036	0.00052	mg/L	0.000036	6.96%
Cu 324.752†	10778.5	0.0403	mg/L	0.00035	0.0403	mg/L	0.00035	0.88%
Ag 338.289†	1061.5	0.0087	mg/L	0.00144	0.0087	mg/L	0.00144	16.56%
Na 330.237†	468.6	0.6741	mg/L	0.12351	0.6741	mg/L	0.12351	18.32%
Ca 227.546†	105.9	0.4436	mg/L	0.07240	0.4436	mg/L	0.07240	16.32%
Al RADIAL†	673.9	0.4752	mg/L	0.06047	0.4752	mg/L	0.06047	12.73%
Fe RADIAL†	151.5	0.4892	mg/L	0.01793	0.4892	mg/L	0.01793	3.66%
Ca RADIAL†	2850.2	0.5842	mg/L	0.00980	0.5842	mg/L	0.00980	1.68%
K RADIAL†	540.4	0.4375	mg/L	0.05329	0.4375	mg/L	0.05329	12.18%
Mg RADIAL†	182.1	0.5135	mg/L	0.01332	0.5135	mg/L	0.01332	2.59%
Na RADIAL†	2032.3	0.4784	mg/L	0.02066	0.4784	mg/L	0.02066	4.32%

Sequence No.: 7
Sample ID: SEQ-IFA1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/11/2020 12:08:24 PM
Data Type: Reprocessed on 2/12/2020 9:10:48 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	15455040.6	4.522	mg/L	0.0346				0.76%
Y RADIAL	229828.8	4.801	mg/L	0.0504				1.05%
As 188.979†	-58.8	-0.0003	mg/L	0.00865	-0.0003	mg/L	0.00865	>999.9%
Tl 190.801†	-72.0	0.0006	mg/L	0.00364	0.0006	mg/L	0.00364	565.87%
Se 196.026†	222.9	0.0005	mg/L	0.01200	0.0005	mg/L	0.01200	>999.9%
Zn 206.200†	238.7	0.0001	mg/L	0.00080	0.0001	mg/L	0.00080	904.93%
Sb 206.836†	-56.4	-0.0003	mg/L	0.00449	-0.0003	mg/L	0.00449	>999.9%
Pb 220.353†	-723.7	-0.0001	mg/L	0.00072	-0.0001	mg/L	0.00072	770.05%
Cd 226.502†	1961.5	-0.0005	mg/L	0.00042	-0.0005	mg/L	0.00042	92.27%
Co 228.616†	-106.1	-0.0008	mg/L	0.00029	-0.0008	mg/L	0.00029	35.95%
Ni 232.003†	189.2	-0.0005	mg/L	0.00474	-0.0005	mg/L	0.00474	887.64%
Ba 233.527†	427.6	0.0050	mg/L	0.00028	0.0050	mg/L	0.00028	5.56%
Mn 257.610†	-21322.6	0.0006	mg/L	0.00087	0.0006	mg/L	0.00087	156.28%
Cr 267.716†	-1134.9	0.0001	mg/L	0.00022	0.0001	mg/L	0.00022	180.01%
Fe 273.955†	4378581.9	198.6	mg/L	2.37	198.6	mg/L	2.37	1.19%
Mg 279.077†	10290187.3	524.0	mg/L	0.53	524.0	mg/L	0.53	0.10%
V 292.402†	3464.4	0.0002	mg/L	0.00058	0.0002	mg/L	0.00058	242.72%
Al 308.215†	10576788.5	557.6	mg/L	0.48	557.6	mg/L	0.48	0.09%
Be 313.107†	-1060.1	-0.00021	mg/L	0.000033	-0.00021	mg/L	0.000033	15.82%
Cu 324.752†	-1226.1	-0.0008	mg/L	0.00049	-0.0008	mg/L	0.00049	64.01%
Ag 338.289†	-40.9	-0.0002	mg/L	0.00088	-0.0002	mg/L	0.00088	480.71%
Na 330.237†	-272.5	0.9814	mg/L	0.03774	0.9814	mg/L	0.03774	3.85%
Ca 227.546†	127797.1	531.7	mg/L	5.92	531.7	mg/L	5.92	1.11%
Al RADIAL†	727416.5	512.8	mg/L	13.85	512.8	mg/L	13.85	2.70%
Fe RADIAL†	59175.0	191.1	mg/L	2.64	191.1	mg/L	2.64	1.38%
Ca RADIAL†	2413547.7	494.7	mg/L	13.83	494.7	mg/L	13.83	2.79%
K RADIAL†	35.9	0.0291	mg/L	0.07189	0.0291	mg/L	0.07189	247.43%
Mg RADIAL†	173049.2	488.1	mg/L	6.93	488.1	mg/L	6.93	1.42%
Na RADIAL†	192.7	0.0454	mg/L	0.01776	0.0454	mg/L	0.01776	39.16%

Sequence No.: 8
Sample ID: SEQ-IFB1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/11/2020 12:10:52 PM
Data Type: Reprocessed on 2/12/2020 9:10:49 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15489582.7	4.532	mg/L	0.0189				0.42%
Y RADIAL	231997.2	4.846	mg/L	0.0142				0.29%
As 188.979†	782.0	0.5092	mg/L	0.00532	0.5092	mg/L	0.00532	1.05%
Tl 190.801†	996.1	0.4873	mg/L	0.00978	0.4873	mg/L	0.00978	2.01%
Se 196.026†	1257.7	0.4519	mg/L	0.01689	0.4519	mg/L	0.01689	3.74%
Zn 206.200†	34555.0	0.9745	mg/L	0.00166	0.9745	mg/L	0.00166	0.17%
Sb 206.836†	1209.8	0.5156	mg/L	0.00705	0.5156	mg/L	0.00705	1.37%
Pb 220.353†	11720.3	1.017	mg/L	0.0056	1.017	mg/L	0.0056	0.55%
Cd 226.502†	149814.2	0.9736	mg/L	0.00181	0.9736	mg/L	0.00181	0.19%
Co 228.616†	19364.2	0.4971	mg/L	0.00182	0.4971	mg/L	0.00182	0.37%
Ni 232.003†	19887.6	1.039	mg/L	0.0058	1.039	mg/L	0.0058	0.55%
Ba 233.527†	43930.9	0.5127	mg/L	0.00153	0.5127	mg/L	0.00153	0.30%
Mn 257.610†	320156.3	0.4965	mg/L	0.00110	0.4965	mg/L	0.00110	0.22%
Cr 267.716†	73360.1	0.4938	mg/L	0.00118	0.4938	mg/L	0.00118	0.24%
Fe 273.955†	4355348.7	197.5	mg/L	0.43	197.5	mg/L	0.43	0.22%
Mg 279.077†	10241073.0	521.5	mg/L	0.79	521.5	mg/L	0.79	0.15%
V 292.402†	128580.3	0.4921	mg/L	0.00118	0.4921	mg/L	0.00118	0.24%
Al 308.215†	10587404.7	558.2	mg/L	1.00	558.2	mg/L	1.00	0.18%
Be 313.107†	2513614.4	0.49931	mg/L	0.000918	0.49931	mg/L	0.000918	0.18%
Cu 324.752†	148140.8	0.5581	mg/L	0.00212	0.5581	mg/L	0.00212	0.38%
Ag 338.289†	133160.3	1.090	mg/L	0.0027	1.090	mg/L	0.0027	0.25%
Na 330.237†	297.6	1.781	mg/L	0.0709	1.781	mg/L	0.0709	3.98%
Ca 227.546†	127639.3	531.0	mg/L	1.77	531.0	mg/L	1.77	0.33%
Al RADIAL†	713380.8	502.9	mg/L	2.54	502.9	mg/L	2.54	0.50%
Fe RADIAL†	58752.4	189.8	mg/L	0.24	189.8	mg/L	0.24	0.13%
Ca RADIAL†	2358568.3	483.5	mg/L	2.49	483.5	mg/L	2.49	0.52%
K RADIAL†	-43.5	-0.0352	mg/L	0.04753	-0.0352	mg/L	0.04753	135.02%
Mg RADIAL†	171207.2	482.9	mg/L	0.79	482.9	mg/L	0.79	0.16%
Na RADIAL†	229.9	0.0541	mg/L	0.01814	0.0541	mg/L	0.01814	33.53%

Sequence No.: 9
Sample ID: SEQ-CCV1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/11/2020 12:13:21 PM
Data Type: Reprocessed on 2/12/2020 9:10:50 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	17029549.2	4.983	mg/L	0.0218				0.44%
Y RADIAL	243092.7	5.078	mg/L	0.0280				0.55%
As 188.979†	808.2	0.4909	mg/L	0.01030	0.4909	mg/L	0.01030	2.10%
Tl 190.801†	1087.2	0.4965	mg/L	0.00550	0.4965	mg/L	0.00550	1.11%
Se 196.026†	1151.7	0.4990	mg/L	0.01256	0.4990	mg/L	0.01256	2.52%
Zn 206.200†	91613.6	2.601	mg/L	0.0515	2.601	mg/L	0.0515	1.98%
Sb 206.836†	634.7	0.2593	mg/L	0.01198	0.2593	mg/L	0.01198	4.62%
Pb 220.353†	6062.0	0.4976	mg/L	0.00619	0.4976	mg/L	0.00619	1.24%
Cd 226.502†	38812.1	0.2553	mg/L	0.00470	0.2553	mg/L	0.00470	1.84%
Co 228.616†	101849.7	2.605	mg/L	0.0451	2.605	mg/L	0.0451	1.73%
Ni 232.003†	48502.4	2.558	mg/L	0.0433	2.558	mg/L	0.0433	1.69%
Ba 233.527†	875357.0	10.22	mg/L	0.141	10.22	mg/L	0.141	1.38%
Mn 257.610†	1743201.1	2.534	mg/L	0.0341	2.534	mg/L	0.0341	1.35%
Cr 267.716†	158623.8	1.052	mg/L	0.0193	1.052	mg/L	0.0193	1.83%
Fe 273.955†	115094.5	5.220	mg/L	0.0946	5.220	mg/L	0.0946	1.81%
Mg 279.077†	491377.0	25.02	mg/L	0.357	25.02	mg/L	0.357	1.42%
V 292.402†	638495.6	2.509	mg/L	0.0320	2.509	mg/L	0.0320	1.27%
Al 308.215†	191995.2	10.12	mg/L	0.179	10.12	mg/L	0.179	1.77%
Be 313.107†	1260528.3	0.25039	mg/L	0.003447	0.25039	mg/L	0.003447	1.38%
Cu 324.752†	330768.2	1.238	mg/L	0.0174	1.238	mg/L	0.0174	1.41%
Ag 338.289†	159981.1	1.309	mg/L	0.0164	1.309	mg/L	0.0164	1.25%
Na 330.237†	16685.4	23.95	mg/L	0.380	23.95	mg/L	0.380	1.59%
Ca 227.546†	5894.9	24.48	mg/L	0.298	24.48	mg/L	0.298	1.22%
Al RADIAL†	14484.1	10.21	mg/L	0.038	10.21	mg/L	0.038	0.37%
Fe RADIAL†	1546.1	4.994	mg/L	0.0185	4.994	mg/L	0.0185	0.37%
Ca RADIAL†	121406.3	24.89	mg/L	0.057	24.89	mg/L	0.057	0.23%
K RADIAL†	6172.6	4.997	mg/L	0.1158	4.997	mg/L	0.1158	2.32%
Mg RADIAL†	8817.1	24.87	mg/L	0.085	24.87	mg/L	0.085	0.34%
Na RADIAL†	105450.1	24.82	mg/L	0.017	24.82	mg/L	0.017	0.07%

Sequence No.: 10
Sample ID: SEQ-CCB1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/11/2020 12:16:27 PM
Data Type: Reprocessed on 2/12/2020 9:10:51 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	17391141.0	5.089	mg/L	0.0453				0.89%
Y RADIAL	245527.5	5.129	mg/L	0.0608				1.19%
As 188.979†	-4.2	-0.0025	mg/L	0.00661	-0.0025	mg/L	0.00661	260.66%
Tl 190.801†	-3.0	-0.0014	mg/L	0.00595	-0.0014	mg/L	0.00595	428.69%
Se 196.026†	-1.6	-0.0007	mg/L	0.00632	-0.0007	mg/L	0.00632	895.83%
Zn 206.200†	-68.0	-0.0019	mg/L	0.00064	-0.0019	mg/L	0.00064	33.16%
Sb 206.836†	2.4	0.0010	mg/L	0.00167	0.0010	mg/L	0.00167	167.37%
Pb 220.353†	0.8	0.0001	mg/L	0.00166	0.0001	mg/L	0.00166	>999.9%
Cd 226.502†	7.3	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	291.06%
Co 228.616†	-6.0	-0.0002	mg/L	0.00036	-0.0002	mg/L	0.00036	233.87%
Ni 232.003†	-20.7	-0.0011	mg/L	0.00094	-0.0011	mg/L	0.00094	85.73%
Ba 233.527†	19.4	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	63.31%
Mn 257.610†	19.6	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	154.74%
Cr 267.716†	14.5	0.0001	mg/L	0.00025	0.0001	mg/L	0.00025	261.15%
Fe 273.955†	48.3	0.0022	mg/L	0.00080	0.0022	mg/L	0.00080	36.30%
Mg 279.077†	75.6	0.0039	mg/L	0.00234	0.0039	mg/L	0.00234	60.68%
V 292.402†	10.8	0.0000	mg/L	0.00029	0.0000	mg/L	0.00029	683.69%
Al 308.215†	-758.0	-0.0400	mg/L	0.00672	-0.0400	mg/L	0.00672	16.81%
Be 313.107†	49.2	0.00001	mg/L	0.000027	0.00001	mg/L	0.000027	273.42%
Cu 324.752†	-80.6	-0.0003	mg/L	0.00044	-0.0003	mg/L	0.00044	146.28%
Ag 338.289†	-111.4	-0.0009	mg/L	0.00071	-0.0009	mg/L	0.00071	78.39%
Na 330.237†	55.1	0.0788	mg/L	0.05182	0.0788	mg/L	0.05182	65.75%
Ca 227.546†	-2.3	-0.0095	mg/L	0.10489	-0.0095	mg/L	0.10489	>999.9%
Al RADIAL†	-91.7	-0.0647	mg/L	0.02311	-0.0647	mg/L	0.02311	35.73%
Fe RADIAL†	-3.2	-0.0105	mg/L	0.01273	-0.0105	mg/L	0.01273	121.51%
Ca RADIAL†	-16.0	-0.0033	mg/L	0.00653	-0.0033	mg/L	0.00653	199.27%
K RADIAL†	43.8	0.0355	mg/L	0.04054	0.0355	mg/L	0.04054	114.27%
Mg RADIAL†	2.3	0.0065	mg/L	0.04835	0.0065	mg/L	0.04835	749.02%
Na RADIAL†	-33.2	-0.0078	mg/L	0.01758	-0.0078	mg/L	0.01758	225.29%

Sequence No.: 11
Sample ID: 20B0093-02RE1
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 2/11/2020 12:19:23 PM
Data Type: Reprocessed on 2/12/2020 9:10:52 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20B0093-02RE1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16768595.1	4.906	mg/L	0.0500				1.02%
Y RADIAL	238550.5	4.983	mg/L	0.0457				0.92%
As 188.979†	166.0	0.1296	mg/L	0.00673	0.1296	mg/L	0.00673	5.19%
Tl 190.801†	-20.6	0.0180	mg/L	0.00280	0.0180	mg/L	0.00280	15.56%
Se 196.026†	-54.4	-0.1028	mg/L	0.00766	-0.1028	mg/L	0.00766	7.46%
Zn 206.200†	393319.8	11.16	mg/L	0.127	11.16	mg/L	0.127	1.13%
Sb 206.836†	-19.7	0.0108	mg/L	0.00321	0.0108	mg/L	0.00321	29.76%
Pb 220.353†	228770.7	18.72	mg/L	0.177	18.72	mg/L	0.177	0.94%
Cd 226.502†	3182.1	0.0100	mg/L	0.00022	0.0100	mg/L	0.00022	2.21%
Co 228.616†	1209.1	0.0325	mg/L	0.00055	0.0325	mg/L	0.00055	1.71%
Ni 232.003†	4643.8	0.2363	mg/L	0.00221	0.2363	mg/L	0.00221	0.94%
Ba 233.527†	393921.2	4.597	mg/L	0.0382	4.597	mg/L	0.0382	0.83%
Mn 257.610†	694456.3	1.035	mg/L	0.0092	1.035	mg/L	0.0092	0.89%
Cr 267.716†	10455.6	0.0756	mg/L	0.00048	0.0756	mg/L	0.00048	0.63%
Fe 273.955†	3595288.3	163.1	mg/L	1.44	163.1	mg/L	1.44	0.88%
Mg 279.077†	799723.9	40.70	mg/L	0.364	40.70	mg/L	0.364	0.89%
V 292.402†	29127.9	0.1035	mg/L	0.00111	0.1035	mg/L	0.00111	1.07%
Al 308.215†	187315.2	9.885	mg/L	0.0921	9.885	mg/L	0.0921	0.93%
Be 313.107†	-8446.4	-0.00168	mg/L	0.000025	-0.00168	mg/L	0.000025	1.50%
Cu 324.752†	132852.7	0.5002	mg/L	0.00453	0.5002	mg/L	0.00453	0.90%
Ag 338.289†	-707.8	-0.0023	mg/L	0.00099	-0.0023	mg/L	0.00099	43.93%
Na 330.237†	5961.3	9.366	mg/L	0.3359	9.366	mg/L	0.3359	3.59%
Ca 227.546†	24472.7	102.8	mg/L	0.75	102.8	mg/L	0.75	0.73%
Al RADIAL†	14125.2	9.971	mg/L	0.1380	9.971	mg/L	0.1380	1.38%
Fe RADIAL†	48489.7	156.6	mg/L	1.89	156.6	mg/L	1.89	1.21%
Ca RADIAL†	505236.4	103.6	mg/L	0.19	103.6	mg/L	0.19	0.18%
K RADIAL†	2088.3	1.691	mg/L	0.0669	1.691	mg/L	0.0669	3.96%
Mg RADIAL†	13799.2	38.90	mg/L	0.570	38.90	mg/L	0.570	1.47%
Na RADIAL†	3745.4	0.8816	mg/L	0.04392	0.8816	mg/L	0.04392	4.98%

Sequence No.: 21
Sample ID: SEQ-CCV2
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/11/2020 12:45:20 PM
Data Type: Reprocessed on 2/12/2020 9:11:02 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	17147281.4	5.017	mg/L	0.0314				0.63%
Y RADIAL	239250.9	4.997	mg/L	0.0371				0.74%
As 188.979†	814.4	0.4947	mg/L	0.00671	0.4947	mg/L	0.00671	1.36%
Tl 190.801†	1094.9	0.5000	mg/L	0.00377	0.5000	mg/L	0.00377	0.75%
Se 196.026†	1149.3	0.4980	mg/L	0.00352	0.4980	mg/L	0.00352	0.71%
Zn 206.200†	90789.5	2.578	mg/L	0.0221	2.578	mg/L	0.0221	0.86%
Sb 206.836†	601.5	0.2458	mg/L	0.00553	0.2458	mg/L	0.00553	2.25%
Pb 220.353†	6083.5	0.4994	mg/L	0.00287	0.4994	mg/L	0.00287	0.57%
Cd 226.502†	38218.2	0.2514	mg/L	0.00248	0.2514	mg/L	0.00248	0.99%
Co 228.616†	101069.5	2.585	mg/L	0.0224	2.585	mg/L	0.0224	0.87%
Ni 232.003†	48043.4	2.534	mg/L	0.0204	2.534	mg/L	0.0204	0.80%
Ba 233.527†	874189.6	10.20	mg/L	0.066	10.20	mg/L	0.066	0.64%
Mn 257.610†	1742703.3	2.533	mg/L	0.0184	2.533	mg/L	0.0184	0.73%
Cr 267.716†	157033.8	1.041	mg/L	0.0105	1.041	mg/L	0.0105	1.01%
Fe 273.955†	113881.5	5.165	mg/L	0.0510	5.165	mg/L	0.0510	0.99%
Mg 279.077†	492281.5	25.07	mg/L	0.177	25.07	mg/L	0.177	0.71%
V 292.402†	636026.4	2.499	mg/L	0.0146	2.499	mg/L	0.0146	0.58%
Al 308.215†	189532.7	9.992	mg/L	0.0980	9.992	mg/L	0.0980	0.98%
Be 313.107†	1260036.5	0.25029	mg/L	0.001470	0.25029	mg/L	0.001470	0.59%
Cu 324.752†	328723.1	1.230	mg/L	0.0082	1.230	mg/L	0.0082	0.66%
Ag 338.289†	158001.6	1.293	mg/L	0.0115	1.293	mg/L	0.0115	0.89%
Na 330.237†	16570.2	23.78	mg/L	0.293	23.78	mg/L	0.293	1.23%
Ca 227.546†	5882.5	24.43	mg/L	0.149	24.43	mg/L	0.149	0.61%
Al RADIAL†	14440.9	10.18	mg/L	0.084	10.18	mg/L	0.084	0.83%
Fe RADIAL†	1537.2	4.965	mg/L	0.0696	4.965	mg/L	0.0696	1.40%
Ca RADIAL†	121441.3	24.89	mg/L	0.042	24.89	mg/L	0.042	0.17%
K RADIAL†	6158.2	4.985	mg/L	0.0748	4.985	mg/L	0.0748	1.50%
Mg RADIAL†	8809.3	24.85	mg/L	0.276	24.85	mg/L	0.276	1.11%
Na RADIAL†	105813.5	24.91	mg/L	0.069	24.91	mg/L	0.069	0.28%

Sequence No.: 22
Sample ID: SEQ-CCB2
Analyst: JAM
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/11/2020 12:48:26 PM
Data Type: Reprocessed on 2/12/2020 9:11:03 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	18010884.1	5.270	mg/L	0.0363				0.69%
Y RADIAL	253511.1	5.295	mg/L	0.0197				0.37%
As 188.979†	-6.1	-0.0037	mg/L	0.00290	-0.0037	mg/L	0.00290	78.82%
Tl 190.801†	2.3	0.0010	mg/L	0.00177	0.0010	mg/L	0.00177	169.63%
Se 196.026†	3.4	0.0015	mg/L	0.00688	0.0015	mg/L	0.00688	467.97%
Zn 206.200†	-49.1	-0.0014	mg/L	0.00011	-0.0014	mg/L	0.00011	7.92%
Sb 206.836†	1.9	0.0008	mg/L	0.00349	0.0008	mg/L	0.00349	452.00%
Pb 220.353†	17.0	0.0014	mg/L	0.00137	0.0014	mg/L	0.00137	98.97%
Cd 226.502†	2.2	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	917.04%
Co 228.616†	-4.1	-0.0001	mg/L	0.00032	-0.0001	mg/L	0.00032	306.87%
Ni 232.003†	26.3	0.0014	mg/L	0.00122	0.0014	mg/L	0.00122	87.94%
Ba 233.527†	11.8	0.0001	mg/L	0.00040	0.0001	mg/L	0.00040	294.57%
Mn 257.610†	43.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	30.37%
Cr 267.716†	26.8	0.0002	mg/L	0.00049	0.0002	mg/L	0.00049	274.08%
Fe 273.955†	32.0	0.0015	mg/L	0.00043	0.0015	mg/L	0.00043	29.77%
Mg 279.077†	39.1	0.0020	mg/L	0.00268	0.0020	mg/L	0.00268	134.48%
V 292.402†	-46.8	-0.0002	mg/L	0.00035	-0.0002	mg/L	0.00035	190.59%
Al 308.215†	-1198.0	-0.0632	mg/L	0.00271	-0.0632	mg/L	0.00271	4.29%
Be 313.107†	233.6	0.00005	mg/L	0.000045	0.00005	mg/L	0.000045	96.26%
Cu 324.752†	-167.9	-0.0006	mg/L	0.00021	-0.0006	mg/L	0.00021	33.67%
Ag 338.289†	-163.3	-0.0013	mg/L	0.00054	-0.0013	mg/L	0.00054	40.68%
Na 330.237†	6.9	0.0100	mg/L	0.19602	0.0100	mg/L	0.19602	>999.9%
Ca 227.546†	15.8	0.0655	mg/L	0.07744	0.0655	mg/L	0.07744	118.13%
Al RADIAL†	-96.3	-0.0679	mg/L	0.03621	-0.0679	mg/L	0.03621	53.33%
Fe RADIAL†	1.3	0.0042	mg/L	0.02732	0.0042	mg/L	0.02732	652.70%
Ca RADIAL†	-48.0	-0.0098	mg/L	0.00207	-0.0098	mg/L	0.00207	20.99%
K RADIAL†	-13.1	-0.0106	mg/L	0.04827	-0.0106	mg/L	0.04827	454.38%
Mg RADIAL†	10.5	0.0295	mg/L	0.02454	0.0295	mg/L	0.02454	83.09%
Na RADIAL†	-12.2	-0.0029	mg/L	0.02114	-0.0029	mg/L	0.02114	734.23%

York Analytical Laboratories, Inc.
SDG: 20B0093
CLASS: HG
METHOD: EPA 7473

DATA PACKAGE COVER PAGE

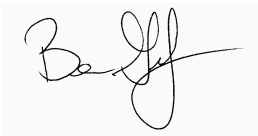
EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093

Client: Roux Associates
Project: 3475.00014000 Lafayette

Client Sample Id:	Lab Sample Id:
SB-1 (0-2)	20B0093-01
SB-1 (11-13)	20B0093-02
SB-3 (0-2)	20B0093-03
SB-3 (13-15)	20B0093-05
SB-4 (0-2)	20B0093-06
SB-4 (13-15)	20B0093-07

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: 2/19/2020

Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID: QBHGDMA80-02 020420A-053

Sampled: 02/04/20 09:40 Prepared: 02/04/20 16:44 Analyzed: 02/04/20 21:29

Solids: 81.01 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BB00144 Sequence: Y0B0507 Calibration: 02/04/20 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	1.79	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID: QBHGDMA80-02 020420A-055

Sampled: 02/04/20 10:10 Prepared: 02/04/20 16:44 Analyzed: 02/04/20 21:42

Solids: 76.97 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BB00144 Sequence: Y0B0507 Calibration: 02/04/20 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	2.34	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID: QBHGDMA80-02 020420A-057

Sampled: 02/04/20 12:45 Prepared: 02/04/20 16:44 Analyzed: 02/04/20 21:54

Solids: 87.50 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BB00144 Sequence: Y0B0507 Calibration: 02/04/20 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.700	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

SB-3 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-05 File ID: QBHGDMA80-02 020420A-059

Sampled: 02/04/20 13:25 Prepared: 02/04/20 16:44 Analyzed: 02/04/20 22:06

Solids: 80.23 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BB00144 Sequence: Y0B0507 Calibration: 02/04/20 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0664	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-06 File ID: QBHGDMA80-02 020420A-046

Sampled: 02/04/20 14:50 Prepared: 02/04/20 16:44 Analyzed: 02/04/20 20:40

Solids: 88.89 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BB00144 Sequence: Y0B0507 Calibration: 02/04/20 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.498	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID: QBHGDMA80-02 020420A-060

Sampled: 02/04/20 15:00 Prepared: 02/04/20 16:44 Analyzed: 02/04/20 22:14

Solids: 74.61 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BB00144 Sequence: Y0B0507 Calibration: 02/04/20 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.736	1		EPA 7473

FORM I

METHOD BLANK DATA SHEET

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00144-BLK1	File ID:	QBHGDMA80-02 020420A-034
Prepared:	02/04/20 16:44	Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g
Analyzed:	02/04/20 16:47	Instrument:	DMA 80-02		
Batch:	BB00144	Sequence:	Y0B0507	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
7439-97-6	Mercury	0.0300	U

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00144
Laboratory ID: BB00144-SRM1
Preparation: EPA 7473 soil
Initial/Final: 0.02 g / 0.02 g

ANALYTE	TRUE (mg/kg)	FOUND (mg/kg)	SRM % REC.	QC LIMITS REC.
Mercury	3.71	3.5150	94.7	65 - 135

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 7473

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00144	Laboratory ID:	BB00144-MS1
Preparation:	EPA 7473 soil	Initial/Final:	0.2 g / 0.2 g

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (mg/kg)	MS CONCENTRATION (mg/kg)	MS % REC. #	QC LIMITS REC.
Mercury	0.500	0.443	1.04	120	75 - 125

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

* Values outside of QC limits

DUPLICATES

SB-4 (0-2)

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Laboratory ID: BB00144-DUP1
Batch: BB00144
Lab Source ID: 20B0093-06
Preparation: EPA 7473 soil
Initial/Final: 0.2 g / 0.2 g
Source Sample Name: SB-4 (0-2)
% Solids: 88.89

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/kg dry)	C	DUPLICATE CONCENTRATION (mg/kg dry)	C	RPD %	Q	METHOD
Mercury	35	0.49812		0.530		6.28		EPA 7473

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 7473

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:** DMA 80-02

Analyte	LOD	LOQ	Units
Mercury	0.0300	0.0300	mg/kg

FORM IV **PREPARATION BATCH SUMMARY**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00144 Batch Matrix: Soil Preparation: EPA 7473 soil

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (0-2)	20B0093-01	HGDMA80-02 020420A-	02/04/20 16:44	
SB-1 (11-13)	20B0093-02	HGDMA80-02 020420A-	02/04/20 16:44	
SB-3 (0-2)	20B0093-03	HGDMA80-02 020420A-	02/04/20 16:44	
SB-3 (13-15)	20B0093-05	HGDMA80-02 020420A-	02/04/20 16:44	
SB-4 (0-2)	20B0093-06	HGDMA80-02 020420A-	02/04/20 16:44	
SB-4 (13-15)	20B0093-07	HGDMA80-02 020420A-	02/04/20 16:44	
Blank	BB00144-BLK1	HGDMA80-02 020420A-	02/04/20 16:44	
SB-4 (0-2)	BB00144-DUP1	HGDMA80-02 020420A-	02/04/20 16:44	
SB-4 (0-2)	BB00144-MS1	HGDMA80-02 020420A-	02/04/20 16:44	
Reference	BB00144-SRM1	HGDMA80-02 020420A-	02/04/20 16:44	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Sequence: Y0B0507
Instrument: DMA 80-02
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Low Cal Check	Y0B0507-LCV1	QBHGDMA80-02 020420A-004	02/04/20 09:34
High Cal Check	Y0B0507-HCV1	QBHGDMA80-02 020420A-005	02/04/20 10:04
Calibration Check	Y0B0507-CCV2	QBHGDMA80-02 020420A-023	02/04/20 14:12
Calibration Blank	Y0B0507-CCB2	QBHGDMA80-02 020420A-024	02/04/20 14:20
Blank	BB00144-BLK1	QBHGDMA80-02 020420A-034	02/04/20 16:47
Reference	BB00144-SRM1	QBHGDMA80-02 020420A-035	02/04/20 16:53
Calibration Check	Y0B0507-CCV3	QBHGDMA80-02 020420A-036	02/04/20 17:04
Calibration Blank	Y0B0507-CCB3	QBHGDMA80-02 020420A-037	02/04/20 17:11
SB-4 (0-2)	20B0093-06	QBHGDMA80-02 020420A-046	02/04/20 20:40
SB-4 (0-2)	BB00144-DUP1	QBHGDMA80-02 020420A-047	02/04/20 20:47
SB-4 (0-2)	BB00144-MS1	QBHGDMA80-02 020420A-049	02/04/20 21:02
Calibration Check	Y0B0507-CCV4	QBHGDMA80-02 020420A-051	02/04/20 21:12
Calibration Blank	Y0B0507-CCB4	QBHGDMA80-02 020420A-052	02/04/20 21:21
SB-1 (0-2)	20B0093-01	QBHGDMA80-02 020420A-053	02/04/20 21:29
SB-1 (11-13)	20B0093-02	QBHGDMA80-02 020420A-055	02/04/20 21:42
SB-3 (0-2)	20B0093-03	QBHGDMA80-02 020420A-057	02/04/20 21:54
SB-3 (13-15)	20B0093-05	QBHGDMA80-02 020420A-059	02/04/20 22:06
SB-4 (13-15)	20B0093-07	QBHGDMA80-02 020420A-060	02/04/20 22:14
Calibration Check	Y0B0507-CCV5	QBHGDMA80-02 020420A-062	02/04/20 22:27
Calibration Blank	Y0B0507-CCB5	QBHGDMA80-02 020420A-063	02/04/20 22:40

CONTINUING CALIBRATION CHECK

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Instrument ID: DMA 80-02
Calibration: 02/04/20
Control Limt: +/- 20.00%
Sequence: Y0B0507

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0B0507-CCV2	Mercury	0.100	0.10040	100	mg/kg	EPA 7473
Y0B0507-CCV3	Mercury	0.100	0.099700	99.7	mg/kg	EPA 7473
Y0B0507-CCV4	Mercury	0.100	0.089200	89.2	mg/kg	EPA 7473
Y0B0507-CCV5	Mercury	0.100	0.090100	90.1	mg/kg	EPA 7473

* Values outside of QC limits

FORM I **BLANKS**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates

Instrument ID: DMA 80-02 Project: 3475.00014000 Lafayette

Sequence: Y0B0507 Calibration: 02/04/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0B0507-CCB2	Mercury	0.00420	0.0300	mg/kg		EPA 7473
BB00144-BLK1	Mercury	0.00270	0.0300	mg/kg wet		EPA 7473
Y0B0507-CCB3	Mercury	0.00260	0.0300	mg/kg		EPA 7473
Y0B0507-CCB4	Mercury	0.00340	0.0300	mg/kg		EPA 7473
Y0B0507-CCB5	Mercury	0.00300	0.0300	mg/kg		EPA 7473

BENCHSHEETS

SDG: 20B0093

CLASS: HG

METHOD: EPA 7473

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00144

Preparation Date: 02/04/2020 16:44

York Analytical Laboratories, Inc. **Printed: 2/5/2020 10:58:13AM**

Matrix: Soil **Preparation: EPA 7473 soil** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (g)	Final (g)	Spike ID	Source ID	ul Spike	Comments
20B0040-01 A	Mercury by 7473	0.2	0.2				
20B0043-01 A	Mercury by 7473	0.2	0.2				
20B0071-01 E	Mercury by 7473	0.2	0.2				
20B0071-02 E	Mercury by 7473	0.2	0.2				
20B0071-03 E	Mercury by 7473	0.2	0.2				
20B0071-07 E	Mercury by 7473	0.2	0.2				
20B0071-08 E	Mercury by 7473	0.2	0.2				
20B0093-01 E	Mercury by 7473	0.2	0.2				
20B0093-02 E	Mercury by 7473	0.2	0.2				
20B0093-03 E	Mercury by 7473	0.2	0.2				
20B0093-05 E	Mercury by 7473	0.2	0.2				
20B0093-06 E	Mercury by 7473	0.2	0.2				
20B0093-07 E	Mercury by 7473	0.2	0.2				
BB00144-BLK1	QC	0.2	0.2				
BB00144-DUP1	QC	0.2	0.2		20B0093-06		
BB00144-MS1	QC	0.2	0.2	Y19L386	20B0093-06	100	
BB00144-SRM1	QC	0.02	0.02	Y18L192		0.02	

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparations Performed by **SY** **Date:** **02/04/2020 16:44**

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	04.02.2020 08:23:00	✓	0.0570	1.2905	12.9051	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
2 2	mb	0.1000	g	04.02.2020 08:23:01	✓	0.0010	0.1455	1.4549	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
3 3	Sys Conditioning 20ng	0.2000	g	04.02.2020 08:53:50	✓	0.7324	18.2490	91.2451	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
4 4	SEQ-LCV1	0.2000	g	04.02.2020 09:32:55	✓	0.7315	18.2209	91.1047	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
5 5	SEQ-HCV1	0.2000	g	04.02.2020 10:02:37	✓	0.1744	196.6826	983.4128	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
6 -	auto BV (1)	0.0000	g	04.02.2020 10:10:35	✓B	0.0397	0.9329	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
7 6	mb	0.1000	g	04.02.2020 10:03:00	✓	0.0357	0.8527	8.5268	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
8 7	SEQ-CCV1	0.2000	g	04.02.2020 11:47:38	✓	0.7875	20.0596	100.2981	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
9 8	SEQ-CCB1	0.1000	g	04.02.2020 11:47:41	✓	0.0125	0.3784	3.7845	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
10 9	BB00115-BLK1	0.2000	g	04.02.2020 12:06:12	✓	0.0057	0.2406	1.2028	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
11 10	BB00115-SRM1	0.0228	g	04.02.2020 12:06:20	✓	0.0647	71.3228	3,128.1909	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
12 11	20B0046-01	0.2082	g	04.02.2020 12:07:06	✓	0.0239	27.0577	129.9602	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
13 12	20B0046-02	0.2203	g	04.02.2020 12:07:10	✓	0.7167	17.7531	80.5859	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
14 14	20B0046-04	0.2247	g	04.02.2020 12:07:15	✓	0.0349	38.8775	173.0196	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
15 15	20B0046-05	0.2210	g	04.02.2020 12:07:18	✓	0.3162	375.8714	1,700.7755	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
16 -	auto BV (1)	0.0000	g	04.02.2020 13:10:42	✓B	0.0096	0.3196	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
17 16	20B0046-06	0.2123	g	04.02.2020 12:07:20	✓	0.1208	134.1967	632.1086	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
18 -	auto BV (1)	0.0000	g	04.02.2020 13:22:40	✓B	0.0059	0.2446	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
19 17	20B0046-07	0.2049	g	04.02.2020 12:07:23	✓	0.3204	7.0885	34.5948	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
20 18	20B0046-08	0.2043	g	04.02.2020 12:07:25	✓	0.6871	16.8348	82.4025	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
21 13	20B0046-03	0.0530	g	04.02.2020 13:59:32	✓	0.3183	378.7043	7,145.3638	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
22 -	auto BV (1)	0.0000	g	04.02.2020 14:07:16	✓B	0.0150	0.4298	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	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 19	SEQ-CCV2	0.2000	g	04.02.2020 14:11:17		0.7881	20.0826	100.4132	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
24 20	SEQ-CCB2	0.1000	g	04.02.2020 14:11:20		0.0148	0.4245	4.2455	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
25 21	20B0046-09	0.2084	g	04.02.2020 14:23:49		0.3560	7.9338	38.0700	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
26 22	20B0046-10	0.2154	g	04.02.2020 14:23:54		0.6228	14.9255	69.2921	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
27 23	20B0046-11	0.2109	g	04.02.2020 14:23:54		0.6862	16.8079	79.6959	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
28 24	20B0046-12	0.2160	g	04.02.2020 14:23:54		0.5460	12.7778	59.1564	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
29 25	20B0046-13	0.2251	g	04.02.2020 14:23:55		0.0307	34.3547	152.6199	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
30 26	20B0046-14	0.2036	g	04.02.2020 14:23:56		0.4908	11.3081	55.5406	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
31 27	BB00115-DUP1	0.2053	g	04.02.2020 14:23:57		0.4682	10.7200	52.2162	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
32 28	BB00115-MS1	0.2074	g	04.02.2020 15:32:38		0.1118	123.9437	597.6070	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
33 -	auto BV (1)	0.0000	g	04.02.2020 15:40:40	B	0.0035	0.1960	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
34 29	BB00144-BLK1	0.2000	g	04.02.2020 16:45:00		0.0208	0.5473	2.7364	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
35 30	BB00144-SRM1	0.0228	g	04.02.2020 16:45:06		0.0727	80.1418	3,514.9924	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
36 31	SEQ-CCV3	0.2000	g	04.02.2020 17:03:28		0.7841	19.9472	99.7362	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
37 32	SEQ-CCB3	0.1000	g	04.02.2020 17:03:33		0.0069	0.2649	2.6487	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
38 33	20B0043-01	0.2203	g	04.02.2020 17:11:43		0.0387	0.9134	4.1460	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
39 34	20B0040-01	0.2031	g	04.02.2020 18:46:32		0.1826	3.9633	19.5139	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
40 35	20B0071-01	0.2063	g	04.02.2020 18:55:53		0.2846	6.2543	30.3163	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
41 36	20B0071-02	0.2024	g	04.02.2020 18:57:02		0.2595	5.6796	28.0612	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
42 37	20B0071-03	0.2017	g	04.02.2020 18:58:34		0.1949	221.2672	1,097.0115	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
43 -	auto BV (1)	0.0000	g	04.02.2020 19:20:46	B	0.0052	0.2304	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
44 38	20B0071-07	0.2116	g	04.02.2020 18:59:45		0.0112	0.3515	1.6612	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014

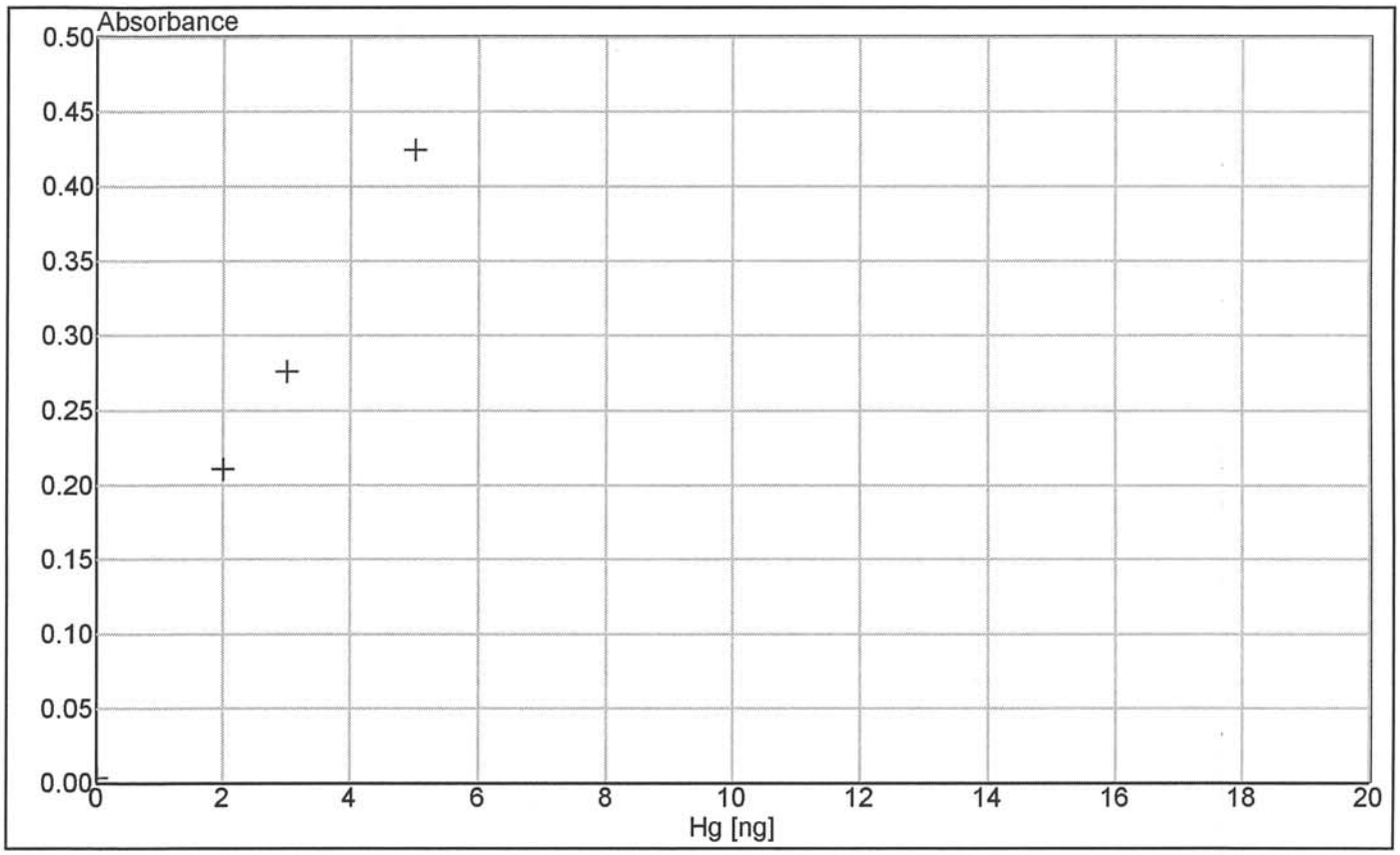
Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
45 39	20B0071-08	0.2052	g	04.02.2020 19:00:37	✔	0.0092	0.3119	1.5199	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
46 40	20B0093-06	0.2113	g	04.02.2020 20:40:11	✔	0.0848	93.5712	442.8360	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
47 1	BB00144-DUP1	0.2122	g	04.02.2020 20:47:11	✔	0.0906	100.0478	471.4789	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
48 -	auto BV (1)	0.0000	g	04.02.2020 20:55:53	✔B	0.0048	0.2223	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
49 2	BB00144-MS1	0.2135	g	04.02.2020 21:01:30	✔	0.1962	222.8398	1,043.7462	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
50 -	auto BV (1)	0.0000	g	04.02.2020 21:08:15	✔B	0.0086	0.2993	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
51 3	SEQ-CCV4	0.2000	g	04.02.2020 21:10:25	✔	0.7198	17.8484	89.2422	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
52 4	SEQ-CCB4	0.1000	g	04.02.2020 21:20:50	✔	0.0106	0.3399	3.3988	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
53 5	20B0093-01	0.2143	g	04.02.2020 21:21:00	✔	0.2674	311.6386	1,454.2164	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
54 -	auto BV (1)	0.0000	g	04.02.2020 21:38:30	✔B	0.0107	0.3419	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
55 6	20B0093-02	0.2084	g	04.02.2020 21:21:10	✔	0.3164	376.1410	1,804.8990	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
56 -	auto BV (1)	0.0000	g	04.02.2020 21:50:28	✔B	0.0075	0.2770	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
57 7	20B0093-03	0.2026	g	04.02.2020 21:21:17	✔	0.1119	124.0572	612.3259	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
58 -	auto BV (1)	0.0000	g	04.02.2020 22:02:30	✔B	0.0060	0.2466	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
59 8	20B0093-05	0.2100	g	04.02.2020 21:21:22	✔	0.4866	11.1964	53.3162	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
60 9	20B0093-07	0.2084	g	04.02.2020 21:21:31	✔	0.1034	114.4331	549.1032	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
61 -	auto BV (1)	0.0000	g	04.02.2020 22:23:42	✔B	0.0063	0.2527	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
62 10	SEQ-CCV5	0.2000	g	04.02.2020 22:21:29	✔	0.7251	18.0155	90.0774	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
63 11	SEQ-CCB5	0.1000	g	04.02.2020 22:40:26	✔	0.0087	0.3013	3.0135	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	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
1 1	0 ng	0.1000	g	03.12.2019 14:06:43	✔	0.0037	0.0000	0.0001	1.0000	03.12.2019 14:26:11	Soil.m80 29.08.2014
2 2	2.0 ng	0.2000	g	03.12.2019 14:07:12	✔	0.2111	2.0000	10.0000	1.0000	03.12.2019 14:35:00	Soil.m80 29.08.2014
3 3	3.0 ng	0.3000	g	03.12.2019 14:08:09	✔	0.2761	3.0000	10.0000	1.0000	03.12.2019 14:44:04	Soil.m80 29.08.2014
4 4	5.0 ng	0.5000	g	03.12.2019 14:08:41	✔	0.4244	5.0000	10.0000	1.0000	03.12.2019 14:53:06	Soil.m80 29.08.2014
5 5	10.0 ng	0.1000	g	03.12.2019 14:09:04	✔	0.8169	10.0000	100.0000	1.0000	03.12.2019 15:02:10	Soil.m80 29.08.2014
6 6	20.0 ng	0.2000	g	03.12.2019 14:09:27	✔	1.1050	20.0000	100.0000	1.0000	03.12.2019 15:11:09	Soil.m80 29.08.2014
7 7	50.0 ng	0.5000	g	03.12.2019 14:09:51	✔	0.0448	50.0000	100.0000	1.0000	03.12.2019 15:20:13	Soil.m80 29.08.2014
8 8	100 ng	0.1000	g	03.12.2019 14:10:13	✔	0.0912	100.0000	1,000.0000	1.0000	03.12.2019 15:29:17	Soil.m80 29.08.2014
9 9	200 ng	0.2000	g	03.12.2019 14:10:31	✔	0.1769	200.0000	1,000.0000	1.0000	03.12.2019 15:38:23	Soil.m80 29.08.2014
10 -	auto BV (1)	0.0000	g	03.12.2019 15:38:35	✔B	0.2649	0.0000	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 14:06:06	29.08.2014
11 10	500 ng	0.5000	g	03.12.2019 14:10:52	✔	0.4041	500.0000	1,000.0000	1.0000	<data not saved> 03.12.2019 15:50:24	Soil.m80 29.08.2014
12 -	auto BV (1)	0.0000	g	03.12.2019 15:50:36	✔B	0.5192	0.0000	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 14:06:06	29.08.2014
13 1	mb	0.1000	g	03.12.2019 15:55:55	✔	0.1749	3.7945	37.9448	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 15:55:37	Soil.m80 29.08.2014
14 14	SEQ-SCV1	0.1000	g	03.12.2019 15:58:51	✔	0.6283	15.0843	150.8430	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 15:55:37	Soil.m80 29.08.2014
15 14	SEQ-SCV2	0.1000	g	03.12.2019 16:15:17	✔	0.5419	12.6671	126.6711	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 15:55:37	Soil.m80 29.08.2014
16 14	SEQ-CCV1	0.1000	g	03.12.2019 16:24:11	✔	0.5152	11.9492	119.4920	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 15:55:37	Soil.m80 29.08.2014
17 14	SEQ-CCV2	0.1000	g	03.12.2019 16:33:31	✔	0.4925	11.3520	113.5201	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
18 14	ccv 20 ng	0.2000	g	03.12.2019 16:42:52	✔	0.7889	20.1085	100.5426	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
19 14	seq-hcv1	0.2000	g	03.12.2019 16:52:52	✔	0.1761	198.7062	993.5311	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	Soil.m80 29.08.2014
20 -	auto BV (1)	0.0000	g	03.12.2019 17:01:11	✔B	0.1221	2.6558	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014
21 -	auto BV (2)	0.0000	g	03.12.2019 17:04:46	✔B	0.0347	0.8310	0.0000	1.0000	ICAL Soil DMA80-02 120319A.c80 03.12.2019 16:34:01	29.08.2014

Calibration data "ICAL Soil DMA80-02 120319A.c80"

Created by "Service" at 03.12.2019 16:34:01

Cell 0

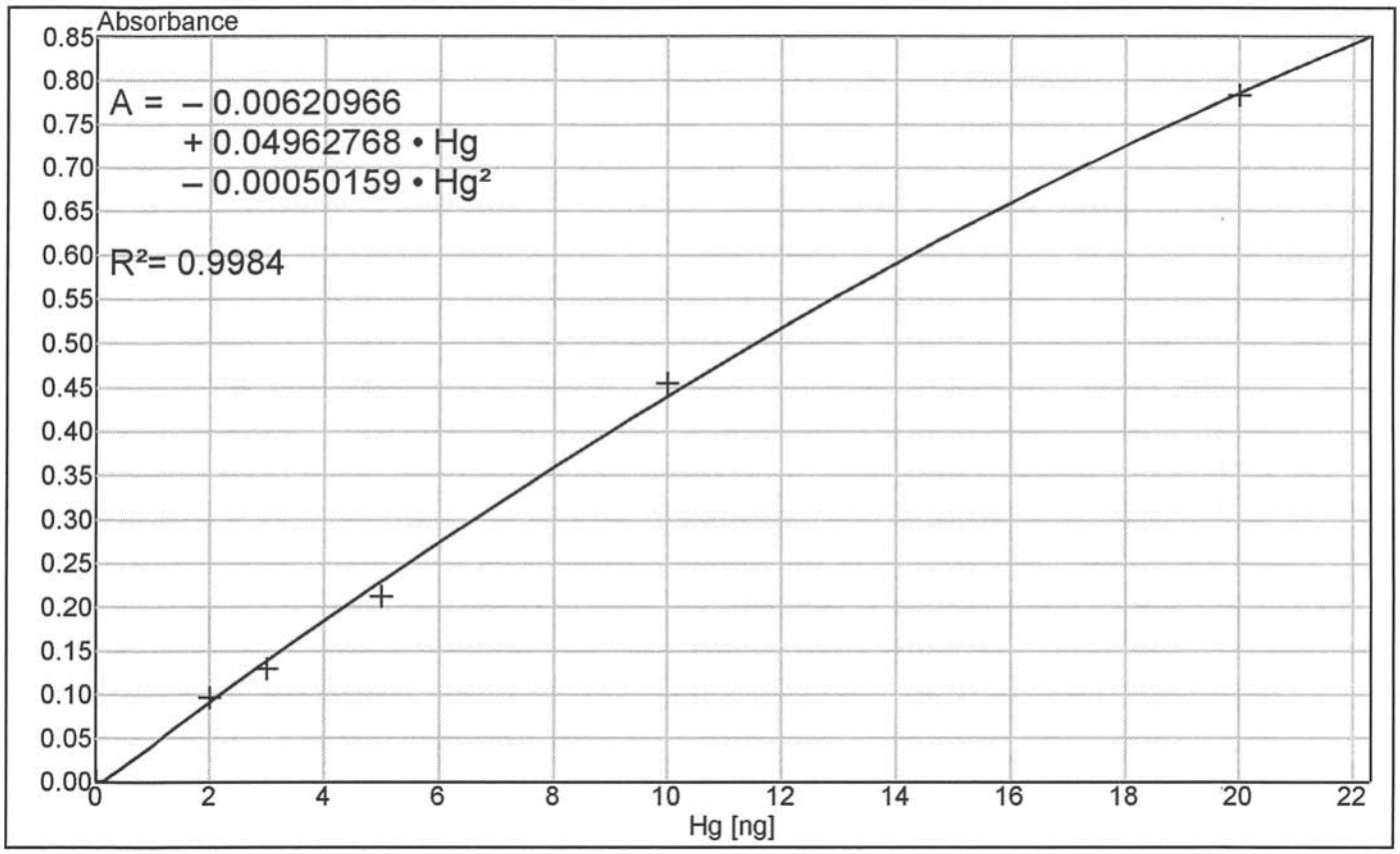


Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1		0.0000	0.0037	-1.#IND	03.12.2019 14:26:20	
2		2.0000	0.2111	-1.#IND	03.12.2019 14:35:09	
3		3.0000	0.2761	-1.#IND	03.12.2019 14:44:13	
4		5.0000	0.4244	-1.#IND	03.12.2019 14:53:15	
5		10.0000	0.8169	-1.#IND	03.12.2019 15:02:21	
6		20.0000	1.1050	-1.#IND	03.12.2019 15:11:20	

Calibration data "ICAL Soil DMA80-02 120319A.c80"

Created by "Service" at 03.12.2019 16:34:01

Cell 1

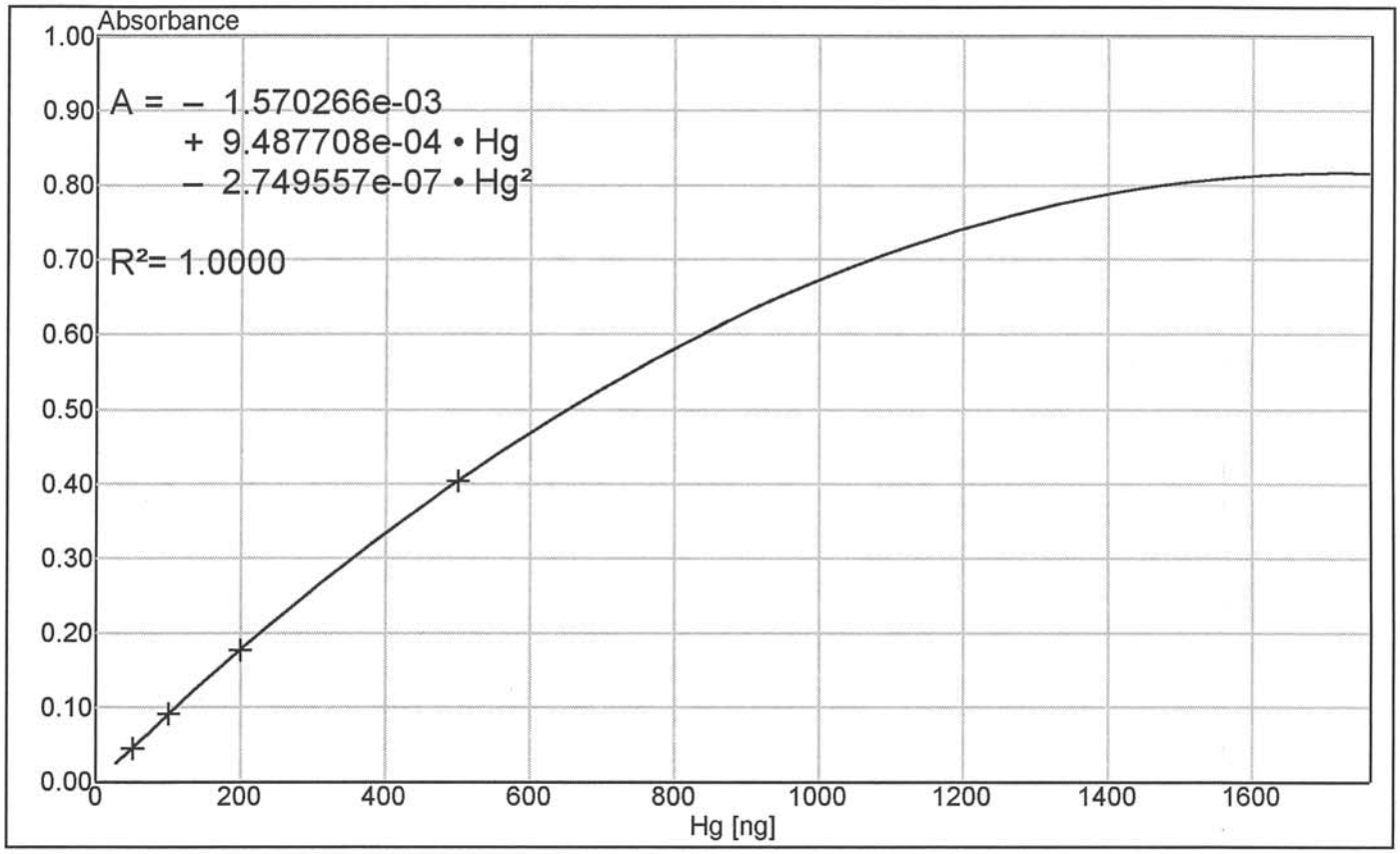


Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✔	0.0000	0.0014	0.0076	03.12.2019 14:26:20	
2	✔	2.0000	0.0966	0.0056	03.12.2019 14:35:09	
3	✔	3.0000	0.1293	-0.0088	03.12.2019 14:44:13	
4	✔	5.0000	0.2124	-0.0170	03.12.2019 14:53:15	
5	✔	10.0000	0.4552	0.0153	03.12.2019 15:02:21	
6	✔	20.0000	0.7831	-0.0026	03.12.2019 15:11:20	

Calibration data "ICAL Soil DMA80-02 120319A.c80"

Created by "Service" at 03.12.2019 16:34:01

Cell 2



Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✔	50.0000	0.0448	-0.0004	03.12.2019 15:20:25	
2	✔	100.0000	0.0912	0.0006	03.12.2019 15:29:29	
3	✔	200.0000	0.1769	-0.0003	03.12.2019 15:38:35	
4	✔	500.0000	0.4041	0.0000	03.12.2019 15:50:36	

Form 2A

INITIAL CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

I Cal Source: Inorganic Ventures

Sequence: DMA80-02 120319A.c80

C Cal Source: Absolute Standards

Concentration units: ug/kg

		SEQ-SCV2	
Analyte	TRUE	FOUND	%R(1)
Mercury	100.0000	126.6711	126.7

(1) Control Limits Hg 80-120 %

York Analytical Laboratories, Inc.
SDG: 20B0093
CLASS: WET
METHOD: EPA 9014/9010C

DATA PACKAGE COVER PAGE

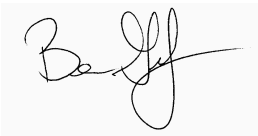
EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093

Client: Roux Associates
Project: 3475.00014000 Lafayette

Client Sample Id:	Lab Sample Id:
SB-1 (0-2)	20B0093-01
SB-1 (11-13)	20B0093-02
SB-3 (0-2)	20B0093-03
SB-3 (13-15)	20B0093-05
SB-4 (0-2)	20B0093-06
SB-4 (13-15)	20B0093-07

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: 2/21/2020

Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID:

Sampled: 02/04/20 09:40 Prepared: 02/14/20 08:29 Analyzed: 02/14/20 14:33

Solids: 81.01 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BB00650 Sequence: Calibration: 02/14/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.617	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID:

Sampled: 02/04/20 10:10 Prepared: 02/17/20 08:20 Analyzed: 02/17/20 16:52

Solids: 76.97 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BB00738 Sequence: Calibration: 02/17/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.669	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID:

Sampled: 02/04/20 12:45 Prepared: 02/17/20 08:20 Analyzed: 02/17/20 16:52

Solids: 87.50 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BB00738 Sequence: Calibration: 02/17/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.571	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

SB-3 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-05 File ID:

Sampled: 02/04/20 13:25 Prepared: 02/17/20 08:20 Analyzed: 02/17/20 16:52

Solids: 80.23 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BB00738 Sequence: Calibration: 02/17/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.623	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-06 File ID:

Sampled: 02/04/20 14:50 Prepared: 02/18/20 08:27 Analyzed: 02/18/20 15:28

Solids: 88.89 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BB00810 Sequence: Calibration: 02/18/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.562	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID:

Sampled: 02/04/20 15:00 Prepared: 02/17/20 08:20 Analyzed: 02/17/20 16:52

Solids: 74.61 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BB00738 Sequence: Calibration: 02/17/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.670	1	U	EPA 9014/9010C

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00650
Laboratory ID: BB00650-SRM1
Preparation: Analysis Preparation Soil
Initial/Final: 0.1 g / 50 mL

ANALYTE	TRUE (ug/mL)	FOUND (ug/mL)	SRM % REC.	QC LIMITS REC.
Cyanide, total	96.2	99.8	104	42.41 - 156.96

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00738
Laboratory ID: BB00738-SRM1
Preparation: Analysis Preparation Soil
Initial/Final: 0.1 g / 50 mL

ANALYTE	TRUE (ug/mL)	FOUND (ug/mL)	SRM % REC.	QC LIMITS REC.
Cyanide, total	96.2	67.8	70.5	42.41 - 156.96

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Batch: BB00810
Laboratory ID: BB00810-SRM1
Preparation: Analysis Preparation Soil
Initial/Final: 0.1 g / 50 mL

ANALYTE	TRUE (ug/mL)	FOUND (ug/mL)	SRM % REC.	QC LIMITS REC.
Cyanide, total	96.2	66.3	68.9	42.41 - 156.96

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 9014/9010C

SB-4 (0-2)

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20B0093
Client:	Roux Associates	Project:	3475.00014000 Lafayette
Matrix:	Soil		
Batch:	BB00810	Laboratory ID:	BB00810-MS1
Preparation:	Analysis Preparation Soil	Initial/Final:	1 g / 50 mL

Source Sample Name: SB-4 (0-2)

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Cyanide, total	11.2	ND	10.6	94.0	79.6 - 107

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

* Values outside of QC limits

DUPLICATES

EPA 9014/9010C

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093
Client: Roux Associates
Project: 3475.00014000 Lafayette
Matrix: Soil
Laboratory ID: BB00810-DUP1
Batch: BB00810
Lab Source ID: 20B0093-06
Preparation: Analysis Preparation Soil
Initial/Final: 1 g / 50 mL
Source Sample Name: SB-4 (0-2)
% Solids: 88.89

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/kg dry)	C	DUPLICATE CONCENTRATION (mg/kg dry)	C	RPD %	Q	METHOD
Cyanide, total	15	ND		ND				EPA 9014/9010C

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA 9014/9010C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00650-BLK1	File ID:	
Prepared:	02/14/20 08:29	Preparation:	Analysis Preparation Soil	Initial/Final:	1 g / 50 mL
Analyzed:	02/14/20 14:33	Instrument:	Inst		
Batch:	BB00650	Sequence:		Calibration:	

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
57-12-5	Cyanide, total	0.500	U

FORM I

METHOD BLANK DATA SHEET

EPA 9014/9010C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00738-BLK1	File ID:	
Prepared:	02/17/20 08:20	Preparation:	Analysis Preparation Soil	Initial/Final:	1 g / 50 mL
Analyzed:	02/17/20 16:52	Instrument:	Inst		
Batch:	BB00738	Sequence:		Calibration:	

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
57-12-5	Cyanide, total	0.500	U

FORM I

METHOD BLANK DATA SHEET

EPA 9014/9010C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20B0093
Client:	Roux Associates			Project:	3475.00014000 Lafayette
Matrix:	Soil	Laboratory ID:	BB00810-BLK1	File ID:	
Prepared:	02/18/20 08:27	Preparation:	Analysis Preparation Soil	Initial/Final:	1 g / 50 mL
Analyzed:	02/18/20 15:28	Instrument:	Inst		
Batch:	BB00810	Sequence:		Calibration:	

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
57-12-5	Cyanide, total	0.500	U

FORM IV **PREPARATION BATCH SUMMARY**

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00650 Batch Matrix: Soil Preparation: Analysis Preparation Soil

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (0-2)	20B0093-01		02/14/20 08:29	
Blank	BB00650-BLK1		02/14/20 08:29	
Reference	BB00650-SRM1		02/14/20 08:29	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00738 Batch Matrix: Soil Preparation: Analysis Preparation Soil

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (11-13)	20B0093-02		02/17/20 08:20	
SB-3 (0-2)	20B0093-03		02/17/20 08:20	
SB-3 (13-15)	20B0093-05		02/17/20 08:20	
SB-4 (13-15)	20B0093-07		02/17/20 08:20	
Blank	BB00738-BLK1		02/17/20 08:20	
Reference	BB00738-SRM1		02/17/20 08:20	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00810 Batch Matrix: Soil Preparation: Analysis Preparation Soil

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-4 (0-2)	20B0093-06		02/18/20 08:27	
Blank	BB00810-BLK1		02/18/20 08:27	
SB-4 (0-2)	BB00810-DUP1		02/18/20 08:27	
SB-4 (0-2)	BB00810-MS1		02/18/20 08:27	
Reference	BB00810-SRM1		02/18/20 08:27	

BENCHSHEETS

SDG: 20B0093

CLASS: WET

METHOD: EPA 9014/9010C

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00650

Preparation Date: 02/14/2020 08:29

York Analytical Laboratories, Inc. **Printed: 2/19/2020 9:39:46AM**

Matrix: Soil **Preparation: Analysis Preparatio** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0093-01 E	Cyanide, Total	1	50				
20B0408-18 A	Cyanide, Total	1	50				
20B0408-19 A	Cyanide, Total	1	50				
20B0408-20 A	Cyanide, Total	1	50				
20B0408-21 A	Cyanide, Total	1	50				
20B0411-01 A	Cyanide, Total	1	50				
20B0411-02 A	Cyanide, Total	1	50				
20B0411-03 A	Cyanide, Total	1	50				
20B0411-04 A	Cyanide, Total	1	50				
20B0411-05 A	Cyanide, Total	1	50				
20B0411-06 A	Cyanide, Total	1	50				
20B0411-07 A	Cyanide, Total	1	50				
20B0411-09 A	Cyanide, Total	1	50				
20B0411-10 A	Cyanide, Total	1	50				
20B0453-01 B	Cyanide, Total	1	50				
20B0483-02 A	Cyanide, Total	1	50				
20B0484-01 A	Cyanide, Total	1	50				
20B0484-03 A	Cyanide, Total	1	50				
20B0484-05 A	Cyanide, Total	1	50				
20B0484-07 A	Cyanide, Total	1	50				
BB00650-BLK1	QC	1	50				
BB00650-DUP1	QC	1	50		20B0408-19		
BB00650-MS1	QC	1	50	Y20B002	20B0408-19	100	
BB00650-SRM1	QC	0.1	50	Y19F365		1	

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparations Performed by **JAG** **Date:** **02/14/2020 08:29**

BENCHSHEETS

SDG: 20B0093

CLASS: WET

METHOD: EPA 9014/9010C

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00738

Preparation Date: 02/17/2020 08:20

York Analytical Laboratories, Inc. **Printed: 2/19/2020 9:39:35AM**

Matrix: Soil **Preparation: Analysis Preparatio** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0093-02 E	Cyanide, Total	1	50				
20B0093-03 E	Cyanide, Total	1	50				
20B0093-05 E	Cyanide, Total	1	50				
20B0093-07 E	Cyanide, Total	1	50				
20B0166-04 B	Cyanide, Total	1	50				
20B0166-05 A	Cyanide, Total	1	50				
20B0166-06 A	Cyanide, Total	1	50				
20B0166-07 A	Cyanide, Total	1	50				
20B0166-08 A	Cyanide, Total	1	50				
20B0166-10 A	Cyanide, Total	1	50				
20B0166-11 A	Cyanide, Total	1	50				
20B0488-19 B	Cyanide, Total	1	50				
20B0488-21 B	Cyanide, Total	1	50				
20B0530-01 A	Cyanide, Total	1	50				
20B0530-02 A	Cyanide, Total	1	50				
20B0530-03 A	Cyanide, Total	1	50				
20B0539-01 B	Cyanide, Total	1	50				
20B0544-01 A	Cyanide, Total	1	50				
20B0544-04 A	Cyanide, Total	1	50				
BB00738-BLK1	QC	1	50				
BB00738-SRM1	QC	0.1	50	Y19F365		1	

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparations Performed by **ZTS** **Date:** **02/17/2020 08:20**

BENCHSHEETS

SDG: 20B0093

CLASS: WET

METHOD: EPA 9014/9010C

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00810

Preparation Date: 02/18/2020 08:27

York Analytical Laboratories, Inc. **Printed: 2/19/2020 9:39:22AM**

Matrix: Soil **Preparation: Analysis Preparatio** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
20B0093-06 E	Cyanide, Total	1	50				
20B0166-01 B	Cyanide, Total	1	50				
20B0166-02 A	Cyanide, Total	1	50				
20B0166-03 B	Cyanide, Total	1	50				
20B0504-01 A	Cyanide, Total	1	50				
20B0558-08 A	Cyanide, Total	1	50				
20B0558-09 A	Cyanide, Total	1	50				
20B0558-10 A	Cyanide, Total	1	50				
20B0558-11 A	Cyanide, Total	1	50				
20B0558-12 A	Cyanide, Total	1	50				
20B0558-13 A	Cyanide, Total	1	50				
20B0558-14 A	Cyanide, Total	1	50				
20B0558-15 A	Cyanide, Total	1	50				
20B0566-02 A	Cyanide, Total	1	50				
20B0579-01 A	Cyanide, Total	1	50				
20B0579-02 A	Cyanide, Total	1	50				
20B0579-03 A	Cyanide, Total	1	50				
20B0579-04 A	Cyanide, Total	1	50				
20B0579-05 A	Cyanide, Total	1	50				
20B0579-06 A	Cyanide, Total	1	50				
BB00810-BLK1	QC	1	50				
BB00810-DUP1	QC	1	50		20B0093-06		
BB00810-MS1	QC	1	50	Y20B002	20B0093-06	100	
BB00810-SRM1	QC	0.1	50	Y19F365		1	

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparations Performed by **ZTS** **Date:** **02/18/2020 08:27**

Calibration Curve Data

CALIBRATION CURVE

ANALYSIS: Cyanide

METHOD: Distill / colormetric Spec A

DATE: 8/6/2019

STD PPM	Absorbance	Concentration
0.01	0.041	
0.025	0.091	
0.05	0.173	
0.1	0.347	
0.2	0.656	

WAVELENGTH: 578 nm

LIGHT PATH: 1 cm

FILTER:NO

SLOPE	0.307969
INTERCEPT	-0.003565
CORRELATION	0.999692

ICV Concentration (ppm)	0.1
ICV Absorbance	0.322
ICV Calculated Conc. (ppm)	0.096
ICV Percent Recovery	95.6

ANALYST: Margaret Ottersen

Total or Amenable Cyanide

	Total Batch: BB90650	
Date: 02/14/20	**Amenable Batch:**	**Slope:** 0.3079609
Analyst: JG	**Reactive CN- Batch:**	**Intercept:** −0.0035605
Matrix: Soil	**Reactive S- Batch:**	**Cal ID:** A

SAMPLE ID	Dilution	Abs.	CN^- mg/l	CN^- mg/kg	S^- Reactive (Y/N)	CN^- Reactive (Y/N)	QA/QC	Run/Position 1	Run/Position 2
Blank (<50% low std abs_____	1x	0	0					1	
CCV (85-115%)		0.309	0.09159				91.5%		
LCS		0.6660	0.1996	99.847			103.79%	2	
1) 20B0093-1		0	0					3	
2) 20B0408-18								4	
3) -19								5	
4) -20								6	
5) -21								7	
6) 20B0411-1								8	
7) -2								9	
8) -3								10	
9) -4								11	
10) -5								12	
11) -6									1
12) -7		0.038	0.00813						2
13) -9		0	0						3
14) -10									4
15) 20B0453-1									5
16) 20B0483-2									6
17) 20B0484-1									7
18) -3									8
19) -5									9
20) -7									10
DUP 20B0408-19							RPD		11
SPK		0.462	0.1387				69.36%		12
CCV (85-115%)		0.384	0.11469				114.69%		

Standard/Reagent	Prep Date	Expiration Date	Traceability
CCV @ 0.1 ppm	2·10·20	2·17·20	Pages A, B
SPK @ 0.2 ppm	↓	↓	Pages A, B
LCS @ 96.2 ppm		8·31·21	Pages C, D
0.1 N NaOH	2·10·20	8·10·20	Page E
Sulfamic acid	2·7·20	8·7·20	Page F
1:1 H_2SO_4	2·13·20	8·13·20	Page G
Magnesium chloride	2·12·20	8·12·20	Page H
Sodium phosphate buffer	2·7·20	8·7·20	Page I
Chloramine T	Daily	Daily	Page J
Pyridine barbituric acid	2·11·20	8·11·20	Pages J, K
Sulfide Check Buffer	12·17·19	6·17·20	Page L

Total or Amenable Cyanide

	Total Batch: BB00738	
Date: 2/17/20	**Amenable Batch:** –	**Slope:** 0.307969
Analyst: ZTS	**Reactive CN- Batch:** –	**Intercept:** -0.003565
Matrix: Soil	**Reactive S- Batch:** –	**Cal ID:** A

SAMPLE ID	Dilution	Abs.	CN^- mg/l	CN^- mg/kg	S^- Reactive (Y/N)	CN^- Reactive (Y/N)	QA/QC	Run/Position 1	Run/Position 2
Blank (<50% low std abs_____	1	0		0	N				12
CCV (85-115%)		0.326		0.0968			96.8 %		
LCS		0.452		0.1356	67.818 ZTS 2/17		70.5 %		11
1) 93-2		0.045		0.0103				1	
2) 93-3		~~0.051~~ 0 ZTS 2/17		0				2	
3) 93-5		0		0				B4	
4) 93-6		0.020		0.0026				5	
5) 93-7		0.024		0.0088				8	
6) 166-5		0.028		0.0051				9	
7) 166-6		0.024		0.0038				10	
8) 166-7		0.025		0.0041				11	
9) 166-4		0.051		0.0121				3	
10) 166-8		0		0				12	
11) 166-10		0.050		0.0118					1
12) 166-11		0.072		0.0186					2
13) 488-19		0		0					3
14) 488-21		0		0					4
15) 530-1		0		0					5
16) 530-2		0		0					6
17) 530-3		0		0					7
18) 539-1		0		0					8
19) 544-1		0		0					9
20) 544-4		0		0					10
DUP 93-6		0.102		0.0278			RPD	6 7	ZTS 2/17
SPK 93-6		0.556		0.1678			83.83 %	6	417
CCV (85-115%)		0.322		0.0956			95.6 %		

Standard/Reagent	Prep Date	Expiration Date	Traceability
CCV @ 0.1 ppm	2/17/20	2/24/20	Pages A, B
SPK @ 0.2 ppm	2/17/20	2/24/20	Pages A, B
LCS @ 96.2 ppm	2/10/20	8/31/20	Pages C, D
0.1 N NaOH	2/10/20	8/10/20	Page E
Sulfamic acid	2/7/20	8/7/20	Page F
1:1 H_2SO_4	2/13/20	8/13/20	Page G
Magnesium chloride	2/12/20	8/12/20	Page H
Sodium phosphate buffer	2/7/20	8/7/20	Page I
Chloramine T	Daily		Page J
Pyridine barbituric acid	~~2/14/20~~ 2-17-20	~~3/14/20~~ 3-17-20	Pages J, K
Sulfide Check Buffer	12/19/20	6/17/20	Page L

Total or Amenable Cyanide

	Total Batch: BB00810	
Date: 2/18/20	**Amenable Batch:** -	**Slope:** 0.307969
Analyst: ZTS	**Reactive CN- Batch:** -	**Intercept:** -0.003565
Matrix: Soil	**Reactive S- Batch:** -	**Cal ID:** A

SAMPLE ID	Dilution	Abs.	CN^- mg/l	CN^- mg/kg	S^- Reactive (Y/N)	CN^- Reactive (Y/N)	QA/QC	Run/Position 1	Run/Position 2
Blank (<50% low std abs	1	0.005	0		N		-		11
CCV (85-115%)		0.382	0.1141				114.1 %		
LCS		0.442	0.1326	66.3			68.9 %		12
1) 93-6		0.012	0.0001					1	
2) 166-1		0	0					4	
3) -2		0.041	0.0091					5	
4) -3		0	0					6	
5) 504-1		0	0					7	
6) 558-8		0	0					8	
7) -9		0	0					9	
8) -10		0	0					10	
9) -11		0	0					11	
10) -12		0	0					12	
11) -13		0	0						1
12) -14		0	0						2
13) -15		0.024	0.0038						3
14) 566-2		0	0						4
15) 579-1		0	0						5
16) -2		0.175	0.0503						6
17) -3		0	0						7
18) -4		0	0						8
19) -5		0	0						9
20) -6		0	0						10
DUP 93-6		0.015	0.0011				RPD	2	
SPK 93-6		0.622	0.1880				94 %	3	
CCV (85-115%)		0.380	~~0.1148~~ 0.1135				113.5 %		

Standard/Reagent	Prep Date	Expiration Date	Traceability
CCV @ 0.1 ppm	2/17/20	2/24/20	Pages A, B
SPK @ 0.2 ppm	"	"	Pages A, B
LCS @ 96.2 ppm	2/10/20	8/31/20	Pages C, D
0.1 N NaOH	"	8/10/20	Page E
Sulfamic acid	2/7/20	8/7/20	Page F
1:1 H_2SO_4	2/13/20	8/13/20	Page G
Magnesium chloride	2/12/20	8/12/20	Page H
Sodium phosphate buffer	2/7/20	8/7/20	Page I
Chloramine T	Daily	-	Page J
Pyridine barbituric acid	2/17/20	3/17/20	Pages J, K
Sulfide Check Buffer	12/19/19	6/17/20	Page L

HOLDING TIME SUMMARY

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

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
SB-1 (0-2)	02/04/20 09:40	02/04/20 19:35	02/14/20 08:29	9.95	14.00	02/14/20 14:33	10.20	14.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/17/20 08:20	12.92	14.00	02/17/20 16:52	13.28	14.00	
SB-3 (0-2)	02/04/20 12:45	02/04/20 19:35	02/17/20 08:20	12.82	14.00	02/17/20 16:52	13.17	14.00	
SB-3 (13-15)	02/04/20 13:25	02/04/20 19:35	02/17/20 08:20	12.79	14.00	02/17/20 16:52	13.14	14.00	
SB-4 (0-2)	02/04/20 14:50	02/04/20 19:35	02/18/20 08:27	13.73	14.00	02/18/20 15:28	14.03	14.00	*
SB-4 (13-15)	02/04/20 15:00	02/04/20 19:35	02/17/20 08:20	12.72	14.00	02/17/20 16:52	13.08	14.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:**

Analyte	LOD	LOQ	Units
Cyanide, total	0.500	0.500	mg/kg

York Analytical Laboratories, Inc.
SDG: 20B0093
CLASS: WET
METHOD: SM 2540G

DATA PACKAGE COVER PAGE

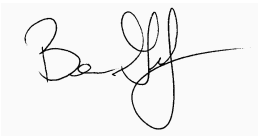
SM 2540G

Laboratory: York Analytical Laboratories, Inc.
SDG: 20B0093

Client: Roux Associates
Project: 3475.00014000 Lafayette

Client Sample Id:	Lab Sample Id:
SB-1 (0-2)	20B0093-01
SB-1 (11-13)	20B0093-02
SB-3 (0-2)	20B0093-03
SB-3 (13-15)	20B0093-05
SB-4 (0-2)	20B0093-06
SB-4 (13-15)	20B0093-07

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: 2/21/2020

Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

SB-1 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-01 File ID:

Sampled: 02/04/20 09:40 Prepared: 02/05/20 10:29 Analyzed: 02/05/20 13:25

Solids: 81.01 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BB00178 Sequence: Calibration: 02/05/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	81.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

SB-1 (11-13)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-02 File ID:

Sampled: 02/04/20 10:10 Prepared: 02/05/20 10:29 Analyzed: 02/05/20 13:25

Solids: 76.97 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BB00178 Sequence: Calibration: 02/05/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	77.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

SB-3 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-03 File ID:

Sampled: 02/04/20 12:45 Prepared: 02/05/20 10:29 Analyzed: 02/05/20 13:25

Solids: 87.50 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BB00178 Sequence: Calibration: 02/05/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	87.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

SB-3 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-05 File ID:

Sampled: 02/04/20 13:25 Prepared: 02/05/20 10:29 Analyzed: 02/05/20 13:25

Solids: 80.23 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BB00178 Sequence: Calibration: 02/05/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	80.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

SB-4 (0-2)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-06 File ID:

Sampled: 02/04/20 14:50 Prepared: 02/05/20 10:29 Analyzed: 02/05/20 13:25

Solids: 88.89 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BB00178 Sequence: Calibration: 02/05/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	88.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

SB-4 (13-15)

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Matrix: Soil Laboratory ID: 20B0093-07 File ID:

Sampled: 02/04/20 15:00 Prepared: 02/05/20 10:29 Analyzed: 02/05/20 13:25

Solids: 74.61 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BB00178 Sequence: Calibration: 02/05/20 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	74.6	1		SM 2540G

DUPLICATES

SB-4 (0-2)

SM 2540G

Laboratory: York Analytical Laboratories, Inc.

Client: Roux Associates

Matrix: Soil

Batch: BB00178

Preparation: % Solids Prep

Source Sample Name: SB-4 (0-2)

SDG: 20B0093

Project: 3475.00014000 Lafayette

Laboratory ID: BB00178-DUP1

Lab Source ID: 20B0093-06

Initial/Final: 5 g / 5 g

% Solids: 88.89

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (%)	C	DUPLICATE CONCENTRATION (%)	C	RPD %	Q	METHOD
% Solids	20	88.9		90.7		2.04		SM 2540G

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

SM 2540G

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

Batch: BB00178 Batch Matrix: Soil Preparation: % Solids Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB-1 (0-2)	20B0093-01		02/05/20 10:29	
SB-1 (11-13)	20B0093-02		02/05/20 10:29	
SB-3 (0-2)	20B0093-03		02/05/20 10:29	
SB-3 (13-15)	20B0093-05		02/05/20 10:29	
SB-4 (0-2)	20B0093-06		02/05/20 10:29	
SB-4 (13-15)	20B0093-07		02/05/20 10:29	
SB-4 (0-2)	BB00178-DUP1		02/05/20 10:29	

BENCHSHEETS

SDG: 20B0093

CLASS: WET

METHOD: SM 2540G

PREPARATION BENCH SHEET-SOILS/SOLIDS: BB00178

Preparation Date: 02/05/2020 10:29

York Analytical Laboratories, Inc. **Printed: 2/12/2020 9:40:43AM**

Matrix: Soil **Preparation: % Solids Prep** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (g)	Final (g)	Spike ID	Source ID	ul Spike	Comments
20B0071-03 E	Total Solids	5	5				
20B0071-04 E	Total Solids	5	5				
20B0071-05 E	Total Solids	5	5				
20B0071-06 E	Total Solids	5	5				
20B0071-07 E	Total Solids	5	5				
20B0071-08 E	Total Solids	5	5				
20B0071-09 E	Total Solids	5	5				
20B0071-10 E	Total Solids	5	5				
20B0071-11 E	Total Solids	5	5				
20B0071-12 E	Total Solids	5	5				
20B0076-01 A	Total Solids	5	5				
20B0093-01 E	Total Solids	5	5				
20B0093-02 E	Total Solids	5	5				
20B0093-03 E	Total Solids	5	5				
20B0093-05 E	Total Solids	5	5				
20B0093-06 E	Total Solids	5	5				
20B0093-07 E	Total Solids	5	5				
20B0100-01 A	Total Solids	5	5				
BB00178-DUP1	QC	5	5		20B0093-06		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparations Performed by **JAG** **Date:** **02/05/2020 10:29**

YORK
ANALYTICAL LABORATORIES, INC.

TOTAL SOLIDS ELECTRONIC LOG

Sample No.	Analyte	Analysis Date	Analyst	Batch ID	Init. Result	Final Result	Units	Prep. Units
20B0093-01	% Solids	2/5/2020 1:25:43PM	JAG	BB00178	81.01	81.0	%	g
20B0093-01	Final Wt.	2/5/2020 1:25:43PM	JAG	BB00178	9.12	9.12	%	g
20B0093-01	Initial Wt.	2/5/2020 1:25:43PM	JAG	BB00178	10.96	11.0	%	g
20B0093-01	Tare Wt.	2/5/2020 1:25:43PM	JAG	BB00178	1.26	1.26	%	g
20B0093-02	% Solids	2/5/2020 1:25:43PM	JAG	BB00178	76.97	77.0	%	g
20B0093-02	Final Wt.	2/5/2020 1:25:43PM	JAG	BB00178	6.78	6.78	%	g
20B0093-02	Initial Wt.	2/5/2020 1:25:43PM	JAG	BB00178	8.43	8.43	%	g
20B0093-02	Tare Wt.	2/5/2020 1:25:43PM	JAG	BB00178	1.27	1.27	%	g
20B0093-03	% Solids	2/5/2020 1:25:43PM	JAG	BB00178	87.50	87.5	%	g
20B0093-03	Final Wt.	2/5/2020 1:25:43PM	JAG	BB00178	7.00	7.00	%	g
20B0093-03	Initial Wt.	2/5/2020 1:25:43PM	JAG	BB00178	7.82	7.82	%	g
20B0093-03	Tare Wt.	2/5/2020 1:25:43PM	JAG	BB00178	1.26	1.26	%	g
20B0093-05	% Solids	2/5/2020 1:25:43PM	JAG	BB00178	80.23	80.2	%	g
20B0093-05	Final Wt.	2/5/2020 1:25:43PM	JAG	BB00178	10.06	10.1	%	g
20B0093-05	Initial Wt.	2/5/2020 1:25:43PM	JAG	BB00178	12.23	12.2	%	g
20B0093-05	Tare Wt.	2/5/2020 1:25:43PM	JAG	BB00178	1.26	1.26	%	g
20B0093-06	% Solids	2/5/2020 1:25:43PM	JAG	BB00178	88.89	88.9	%	g
20B0093-06	Final Wt.	2/5/2020 1:25:43PM	JAG	BB00178	7.61	7.61	%	g
20B0093-06	Initial Wt.	2/5/2020 1:25:43PM	JAG	BB00178	8.41	8.41	%	g
20B0093-06	Tare Wt.	2/5/2020 1:25:43PM	JAG	BB00178	1.26	1.26	%	g
20B0093-07	% Solids	2/5/2020 1:25:43PM	JAG	BB00178	74.61	74.6	%	g
20B0093-07	Final Wt.	2/5/2020 1:25:43PM	JAG	BB00178	7.77	7.77	%	g
20B0093-07	Initial Wt.	2/5/2020 1:25:43PM	JAG	BB00178	9.98	9.98	%	g
20B0093-07	Tare Wt.	2/5/2020 1:25:43PM	JAG	BB00178	1.26	1.26	%	g
BB00178-DUP1	% Solids	2/5/2020 1:25:43PM	JAG	BB00178	90.73	90.7	%	g
BB00178-DUP1	Final Wt.	2/5/2020 1:25:43PM	JAG	BB00178	6.87	6.87	%	g
BB00178-DUP1	Initial Wt.	2/5/2020 1:25:43PM	JAG	BB00178	7.45	7.45	%	g
BB00178-DUP1	Tare Wt.	2/5/2020 1:25:43PM	JAG	BB00178	1.27	1.27	%	g

Note: Units for Tare, Initial and Final Wts. are in grams

HOLDING TIME SUMMARY

SM 2540G

Laboratory: York Analytical Laboratories, Inc. SDG: 20B0093

Client: Roux Associates Project: 3475.00014000 Lafayette

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
SB-1 (0-2)	02/04/20 09:40	02/04/20 19:35	02/05/20 10:29	1.03	28.00	02/05/20 13:25	1.16	28.00	
SB-1 (11-13)	02/04/20 10:10	02/04/20 19:35	02/05/20 10:29	1.01	28.00	02/05/20 13:25	1.14	28.00	
SB-3 (0-2)	02/04/20 12:45	02/04/20 19:35	02/05/20 10:29	0.91	28.00	02/05/20 13:25	1.03	28.00	
SB-3 (13-15)	02/04/20 13:25	02/04/20 19:35	02/05/20 10:29	0.88	28.00	02/05/20 13:25	1.00	28.00	
SB-4 (0-2)	02/04/20 14:50	02/04/20 19:35	02/05/20 10:29	0.82	28.00	02/05/20 13:25	0.94	28.00	
SB-4 (13-15)	02/04/20 15:00	02/04/20 19:35	02/05/20 10:29	0.81	28.00	02/05/20 13:25	0.93	28.00	

METHOD DETECTION AND REPORTING LIMITS

SM 2540G

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20B0093

Client: Roux Associates **Project:** 3475.00014000 Lafayette

Matrix: Soil **Instrument:**

Analyte	LOD	LOQ	Units
% Solids	0.100	0.100	%