Arnold F. Fleming, P.E.
&
Fleming Lee Shue
Environmental Management & Consulting

Sent via electronic mail (michael.maccabe@dec.ny.gov)

July 17, 2019

Michael D. MacCabe, P.E.
Senior Environmental Engineer
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7016

Re: **Semi-Annual Groundwater Monitoring Report**
388 Bridge Street Site - Brooklyn, New York
BCP Site #C224134

Dear Mr. MacCabe:

Fleming-Lee Shue Inc. and Arnold Fleming, P.E. (collectively FLS) presents this Semi-Annual Groundwater Monitoring Report for the 388 Bridge Street property (Site). The groundwater monitoring program was implemented to monitor natural attenuation of volatile organic compounds (VOC) in the groundwater following the downsizing of the soil vapor extraction (SVE) system. The SVE system, installed in 2013, was downsized and modified in 2016 to target the area where the bulk of the contaminant mass remains, primarily in the area of SVE well 2 (SVE-2). Selected soil vapor extraction wells were converted to monitoring wells and included in the groundwater monitoring program. The Site Location Map is included as Figure 1.

Background

Results from subsurface investigations performed by FLS from 2008 to 2010 detected tetrachloroethylene (PCE) in both soil and groundwater. The Site was accepted into the NYSDEC Brownfield Cleanup Program (BCP) in August 2009. Remedial activities were conducted in accordance with the NYSDEC-approved Remedial Action Work Plan dated April 2012. The BCP Volunteer achieved a Track 2 remedy at the Site. After completion of the remedial work, residual contamination remained on-Site. Therefore, institutional and engineering controls were incorporated into the Site remedy to control exposure to the remaining contamination.

In June 2013, the SVE system was installed to remove VOCs from soil gas beneath the building slab. The system operated from 2013 through 2016 and included six extraction points (SVE-1, SVE-2, SVE-3, SVE-4, SVE-5 and SVE-6).

In 2016, after monitoring of PCE concentrations and prior approval of NYSDEC, the 2013 SVE system was downsized to limit extraction to where the bulk of the PCE mass remains (SVE-2). Each of the vapor extraction points, except for one location (SVE-2), were converted into groundwater monitoring wells (SVE-MW-1, SVE-MW-3, SVE-MW 4, SVE-MW-5 and SVE-MW-6) to monitor natural attenuation of VOCs.

In July 2016 and with the prior approval of NYSDEC (dated July 29, 2016), SVE-MW-3 and SVE-MW-6 were abandoned because they did not extend into the groundwater table and were therefore not usable as groundwater monitoring wells. Off-Site monitoring wells, MW-3 and MW-7, were destroyed during construction activities.

Once remediation is completed, extraction well SVE-2 will be converted to a groundwater monitoring well and serve as the downgradient well. Figure 2 presents the well locations and results from the last four rounds of groundwater sampling.

Groundwater Monitoring Program

The semi-annual groundwater sampling events started in March 2016. The objectives of the groundwater monitoring program include the following:

- Provide a current round of groundwater analytical data from the monitoring wells;
- Evaluate the existing and time-based groundwater conditions at the Site; and
- Evaluate the time-based trends of VOCs.

The groundwater monitoring program involves the following activities:

- Measurement of groundwater field parameters including pH, dissolved oxygen (DO), total dissolved solids (TDS), conductivity, oxidation-reduction potential (ORP), turbidity, salinity, and temperature to determine groundwater conditions;
- Collection of groundwater samples for VOCs to evaluate chlorinated VOC concentration trends and monitor natural attenuation;
- Collection of groundwater samples for geochemical parameters including nitrate, nitrite, sulfate, iron (II), total organic carbon, and dissolved organic carbon to evaluate evidence supporting natural attenuation.

Groundwater Sampling Procedures

On May 7, 2019, groundwater samples were collected from the three on-Site monitoring wells (SVE-MW-1, SVE-MW 4, and SVE-MW-5). Groundwater samples were collected using the low-flow sampling method (EPA Low-Flow Groundwater Sampling Procedures, April 1996). Each monitoring well was purged prior to sampling using a peristaltic pump until groundwater parameters (temperature, pH, DO, conductivity, ORP, TDS, and turbidity) stabilized, or three well volumes were purged. Water-quality measurements were monitored using a Horiba U-52 multi-parameter water-quality meter. The monitoring well purge logs are included in Appendix A.

After the stabilization of the groundwater parameters, samples were collected via dedicated pump tubing directly into laboratory-supplied containers. After sample collection each container was labeled, placed on

ice in an insulated cooler and transported under chain-of-custody protocol to SGS/Accutest Laboratories of Dayton, New Jersey, a New York Environmental Laboratory Approval Program Certified Laboratory. The groundwater samples were analyzed for Target Compounds List VOCs by EPA Method 8260C and several geochemical parameters.

Summary of Analytical Results

The groundwater analytical results, from all seven sampling events, were compared to the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (TOGS) and are summarized in Table 1. The laboratory data report is provided in Appendix B.

The groundwater analytical results indicate that PCE is present in concentrations that exceed the TOGS of 5 µg/L in each of the monitoring wells sampled: SVE-MW-1 (7.3 µg/L). SVE-MW-4 (46.5 µg/L), and SVE-MW-5 (36.6 µg/L). Trichloroethylene (TCE) and cis-1, 2-dichloroethylene concentrations were below the TOGS in all three monitoring wells. There was a slight exceedance of the TOGS in SVE-MW-4 for chloroform (7.1 µg/L). The TOGS standard for Chloroform is 7.0 µg/L. An overview of PCE and TCE concentrations since semi-annual groundwater monitoring began in March 2016 are presented in the attached graphs.

Conclusions and Recommendations

PCE and chloroform were the only chlorinated VOCs exceeding TOGS. During this monitoring event, PCE concentrations were slightly lower in SVE-MW-4 and nearly the same in the remainder of the wells as recent sampling events. PCE concentrations continue to remain well below pre-remediation conditions and have been stable since semiannual sampling began in 2016.

Due to the stable PCE concentrations in all monitoring wells, FLS recommends a change to the monitoring program from semiannual to annual groundwater monitoring to assess groundwater quality.

If this change to the groundwater monitoring program is approved, FLS will revise the Site Management Plan accordingly. The results will be presented in an Annual Groundwater Monitoring Report.

Please contact us with any comments or questions.

Sincerely,

Fleming-Lee Shue, Inc.

Mark Hutson, P.G.
Director/Senior Project Manager

cc: Roger Fortune — Stahl Realty
Jennifer Coghlan, Esq. — Sive, Paget & Riesel
Arnold F. Fleming, P.E. — Fleming-Lee-Shue, Inc.

enc:

Table 1	Groundwater Sampling Analytical Results
Figure 1	Site Location Map
Figure 2	Site Plan and Groundwater Sampling Results
Graphs	PCE and TCE Concentration Trends
Appendix A	Monitoring Well Purge Logs
Appendix B	Laboratory Analytical Data Report

Tables

Table 1 - Groundwater Analytical Results
Semi-Annual Groundwater Report
388 Bridge Street, Brooklyn NY

Client Sample ID:			SVE-MW-1							SVE-MW-4							SVE-MW-5						
Lab Sample ID:	Units	NY TOGS Class GA GW Standards	JC17514-1	JC28127-3	JC39116-1	JC51891-1	JC62395-1	JC62395-1	JC87667-1	JC17514-2	JC28127-2	JC39116-2	JC51891-2	JC62395-3	JC62395-3	JC87667-2	JC17514-3	JC28127-1	JC39116-3	JC51891-3	JC62395-2	JC73688-3	JC87667-3
Date Sampled:			3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019	3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019	3/31/2016	9/20/2016	3/17/2017	9/26/2017	3/14/2018	9/12/2018	5/7/2019
Matrix:			Groundwater							Groundwater							Groundwater						
GC/MS Volatiles (SW846 8260C)																							
Acetone	ug/l	-	ND (3.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)	ND (3.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)	ND (3.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)
Benzene	ug/l	1	ND (0.24)	ND (0.14)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.24)	ND (0.14)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.24)	ND (0.14)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)
Bromochloromethane	ug/l	5	ND (0.37)	ND (0.46)	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.37)	ND (0.46)	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.37)	ND (0.46)	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)
Bromodichloromethane	ug/l	-	ND (0.23)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.23)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.23)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)
Bromoform	ug/l	-	ND (0.23)	ND (0.34)	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.23)	ND (0.34)	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.23)	ND (0.34)	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)
Bromomethane	ug/l	5	ND (0.42)	ND (0.46)	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)	ND (0.42)	ND (0.46)	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)	ND (0.42)	ND (0.46)	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)
2-Butanone (MEK)	ug/l	-	ND (5.6)	ND (1.9)	ND (1.9)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (5.6)	ND (1.9)	ND (1.9)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (5.6)	ND (1.9)	ND (1.9)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)
Carbon disulfide	ug/l	60	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.50)	ND (0.95)	ND (0.95)	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.50)	ND (0.95)	ND (0.95)	ND (0.25)	ND (0.33)	ND (0.33)	ND (0.23)	ND (0.50)	ND (0.95)	ND (0.95)
Carbon tetrachloride	ug/l	5	ND (0.22)	ND (0.54)	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.54)	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.54)	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)
Chlorobenzene	ug/l	5	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)
Chloroethane	ug/l	5	ND (0.34)	ND (0.44)	ND (0.44)	ND (0.59) [a]	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.34)	ND (0.44)	ND (0.44)	ND (0.59) [a]	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.34)	ND (0.44)	ND (0.44)	ND (0.59) [a]	ND (0.59)	ND (0.73)	ND (0.73)
Chloroform	ug/l	7	1.7	1	1.3	ND (0.29)	1.2	2.9	3	0.89 J	1.3	0.93 J	3.6	**10.7**	5.7	**7.1**	0.79 J	0.85 J	0.71 J	**9.9**	**9.9**	6.5	3.8
Chloromethane	ug/l	5	ND (0.41)	ND (0.96)	ND (0.96)	ND (0.53) [a]	ND (0.53)	ND (0.76)	ND (0.76)	ND (0.41)	ND (0.96)	ND (0.96)	ND (0.53) [a]	ND (0.53)	ND (0.76)	ND (0.76)	ND (0.41)	ND (0.96)	ND (0.96)	ND (0.53) [a]	ND (0.53)	ND (0.76)	ND (0.76)
Cyclohexane	ug/l	-	ND (0.28)	ND (0.73)	ND (0.73)	ND (0.63)	ND (0.63)	ND (0.78)	ND (0.78)	ND (0.28)	ND (0.73)	ND (0.73)	ND (0.63)	ND (0.63)	ND (0.78)	ND (0.78)	ND (0.28)	ND (0.73)	ND (0.73)	ND (0.63)	ND (0.63)	ND (0.78)	ND (0.78)
1,2-Dibromo-3-chloropropane	ug/l	0.04	ND (0.99)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2) a	ND (1.2)	ND (0.99)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2) a	ND (1.2)	ND (0.99)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2) [a]	ND (1.2)
Dibromochloromethane	ug/l	-	ND (0.15)	ND (0.23)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.15)	ND (0.23)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.15)	ND (0.23)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)
1,2-Dibromoethane	ug/l	0.0006	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)
1,2-Dichlorobenzene	ug/l	3	ND (0.19)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.19)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.19)	ND (0.23)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)
1,3-Dichlorobenzene	ug/l	3	ND (0.23)	ND (0.19)	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.23)	ND (0.19)	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.23)	ND (0.19)	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)
1,4-Dichlorobenzene	ug/l	3	ND (0.27)	ND (0.21)	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.27)	ND (0.21)	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.27)	ND (0.21)	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)
Dichlorodifluoromethane	ug/l	5	ND (0.90)	ND (0.70)	ND (0.70)	ND (1.9) [a]	ND (1.9)	ND (1.4)	ND (1.4)	ND (0.90)	ND (0.70)	ND (0.70)	ND (1.9) [a]	ND (1.9)	ND (1.4)	ND (1.4)	ND (0.90)	ND (0.70)	ND (0.70)	ND (1.9) [a]	ND (1.9)	ND (1.4)	ND (1.4)
1,1-Dichloroethane	ug/l	5	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)
1,2-Dichloroethane	ug/l	0.6	ND (0.18)	ND (0.39)	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.18)	ND (0.39)	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.18)	ND (0.39)	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)
1,1-Dichloroethene	ug/l	5	ND (0.51)	ND (0.20)	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.51)	ND (0.20)	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.51)	ND (0.20)	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)
cis-1,2-Dichloroethene	ug/l	5	ND (0.27)	ND (0.31)	ND (0.31)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	0.85 J	1.6	0.79 J	1.3	0.68 J	**6.8**	3	0.34 J	ND (0.31)	ND (0.31)	1.4	0.52 J	2.3	1.3
trans-1,2-Dichloroethene	ug/l	5	ND (0.65)	ND (0.36)	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.65)	ND (0.36)	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.65)	ND (0.36)	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)
1,2-Dichloropropane	ug/l	1	ND (0.39)	ND (0.33)	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.39)	ND (0.33)	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.39)	ND (0.33)	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)
cis-1,3-Dichloropropene	ug/l	-	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)
trans-1,3-Dichloropropene	ug/l	-	ND (0.19)	ND (0.26)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.19)	ND (0.26)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.19)	ND (0.26)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)
1,4-Dioxane	ug/l	-	ND (41)	ND (32)	ND (32)	ND (52)	ND (52)	ND (69)	ND (69)	ND (41)	ND (32)	ND (32)	ND (52)	ND (52)	ND (69)	ND (69)	ND (41)	ND (32)	ND (32)	ND (52)	ND (52)	ND (69)	ND (69)
Ethylbenzene	ug/l	5	ND (0.27)	ND (0.20)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.27)	ND (0.20)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.27)	ND (0.20)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)
Freon 113	ug/l	5	ND (0.52)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.9)	ND (1.9)	ND (0.52)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.9)	ND (1.9)	ND (0.52)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.9)	ND (1.9)
2-Hexanone	ug/l	-	ND (1.7)	ND (1.5)	ND (1.5)	ND (3.3)	ND (3.3)	ND (2.0)	ND (2.0)	ND (1.7)	ND (1.5)	ND (1.5)	ND (3.3)	ND (3.3)	ND (2.0)	ND (2.0)	ND (1.7)	ND (1.5)	ND (1.5)	ND (3.3)	ND (3.3)	ND (2.0)	ND (2.0)
Isopropylbenzene	ug/l	5	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)
Methyl Acetate	ug/l	-	ND (1.9)	ND (1.5)	ND (1.5)	ND (3.1)	ND (3.1)	ND (0.80)	ND (0.80)	ND (1.9)	ND (1.5)	ND (1.5)	ND (3.1)	ND (3.1)	ND (0.80)	ND (0.80)	ND (1.9)	ND (1.5)	ND (1.5)	ND (3.1)	ND (3.1)	ND (0.80)	ND (0.80)
Methylcyclohexane	ug/l	-	ND (0.22)	ND (0.78)	ND (0.78)	ND (1.8)	ND (1.8)	ND (0.60)	ND (0.60)	0.31 J	ND (0.78)	ND (0.78)	ND (1.8)	ND (1.8)	ND (0.60)	ND (0.60)	ND (0.22)	ND (0.78)	ND (0.78)	ND (1.8)	ND (1.8)	ND (0.60)	ND (0.60)
Methyl Tert Butyl Ether	ug/l	10	ND (0.24)	ND (0.34)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	0.24 J	ND (0.34)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.24)	ND (0.34)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)
4-Methyl-2-pentanone(MIBK)	ug/l	-	ND (1.0)	ND (1.2)	ND (1.2)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.0)	ND (1.2)	ND (1.2)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.0)	ND (1.2)	ND (1.2)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)
Methylene chloride	ug/l	5	ND (0.73)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.73)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.73)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Styrene	ug/l	5	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)
1,1,2,2-Tetrachloroethane	ug/l	5	ND (0.21)	ND (0.39)	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.21)	ND (0.39)	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.21)	ND (0.39)	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)
Tetrachloroethene	ug/l	5	**11.9**	**11.8**	**9.7**	2.4	**7.4**	**7.3**	**7.3**	**12.5**	**11.9**	**11.6**	**34.6**	**28.7**	**72**	**46.5**	**12.1**	**11.3**	**6.6**	**32**	**21.5**	**39.3**	**36.6**
Toluene	ug/l	5	ND (0.16)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.16)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.16)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)
1,2,3-Trichlorobenzene	ug/l	5	ND (0.23)	ND (0.20)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.23)	ND (0.20)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.23)	ND (0.20)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) [a]	ND (0.50)
1,2,4-Trichlorobenzene	ug/l	5	ND (0.21)	ND (0.25)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.21)	ND (0.25)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.21)	ND (0.25)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) [a]	ND (0.50)
1,1,1-Trichloroethane	ug/l	5	ND (0.25)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.25)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.25)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)
1,1,2-Trichloroethane	ug/l	1	ND (0.21)	ND (0.28)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.21)	ND (0.28)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.21)	ND (0.28)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)
Trichloroethene	ug/l	5	0.49 J	0.40 J	0.46 J	ND (0.27)	0.28 J	ND (0.53)	ND (0.53)	**7.8**	**8.8**	**7.2**	2	1.9	4.7	3.2	3.3	2.6	1.4	2.9	1.7	3.0	2.2
Trichlorofluoromethane	ug/l	5	ND (0.43)	ND (0.58)	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84)	ND (0.43)	ND (0.58)	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84)	ND (0.43)	ND (0.58)	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84)
Vinyl chloride	ug/l	2	ND (0.15)	ND (0.33)	ND (0.33)	ND (0.62) [a]	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.15)	ND (0.33)	ND (0.33)	ND (0.62) [a]	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.15)	ND (0.33)	ND (0.33)	ND (0.62) [a]	ND (0.62)	ND (0.79)	ND (0.79)
m,p-Xylene	ug/l	-	ND (0.38)	ND (0.42)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.38)	ND (0.42)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.38)	ND (0.42)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)
o-Xylene	ug/l	5	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)
Xylene (total)	ug/l	5	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.17)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)
General Chemistry																							
Dissolved Organic Carbon*	mg/l	-	-	<1.0	-	1.5	1.2	4.8	<1.0	-	<1.0	-	1.4	1.4	1.1	<1.0	-	<1.0	-	1.4	<1.0	1.2	1.1
Iron, Ferrous	mg/l	-	-	<0.20	<0.20 [a]		<0.20	<0.20 b	<0.20 [a]	-	<0.20	<0.20 [a]		<0.20	<0.20 b	<0.20 [a]	-	<0.20	<0.20 [a]		<0.20	<0.20 [b]	<0.20 a
Nitrogen, Nitrate	mg/l	10	-	**12.2**	**10.3** [b]	**15.8** [b]	**10.6**	9.2 c	7.8 [b]	-	6.7	8.1 [b]	10 [b]	4.9	9.2 c	**10.8** [b]	-	9.4	**23.2** [b]	6.3 [b]	5.7	**10.6** [c]	**13.0 b**
Nitrogen, Nitrate + Nitrite	mg/l	10	-	**12.2**	**10.3**	**15.8**	**10.6**	9.2	7.8	-	6.7	8.1	10	4.9	9.2	**10.8**	-	9.4	**23.2**	6.3	5.7	**10.6**	**13**
Nitrogen, Nitrite	mg/l	1	-	<0.010	<0.010	ND (0.010)	<0.010	<0.010	<0.010	-	<0.010	<0.010	0.017	<0.010	<0.010	<0.010	-	<0.010	<0.010	ND (0.010)	<0.010	<0.010	<0.010
Sulfate	mg/l	250	-	95.7	88.3	62.7	114	98.2	115	-	94.4	96.6	74.7	40.9	78.4	94.7	-	75	108	39.5	40.8	102	72.7
Total Organic Carbon	mg/l	-	-	<1.0	1.2		1.2	1.4	<1.0	-	1	1		1.6	1.2	<1.0	-	<1.0	1.3		<1.0	1.2	<1.0

Notes:

ND - not detected

J - estimated concentration

[a] Associated CCV outside of control limits high, sample was ND

[b] Field analysis required. Received out of hold time and analyzed by request.

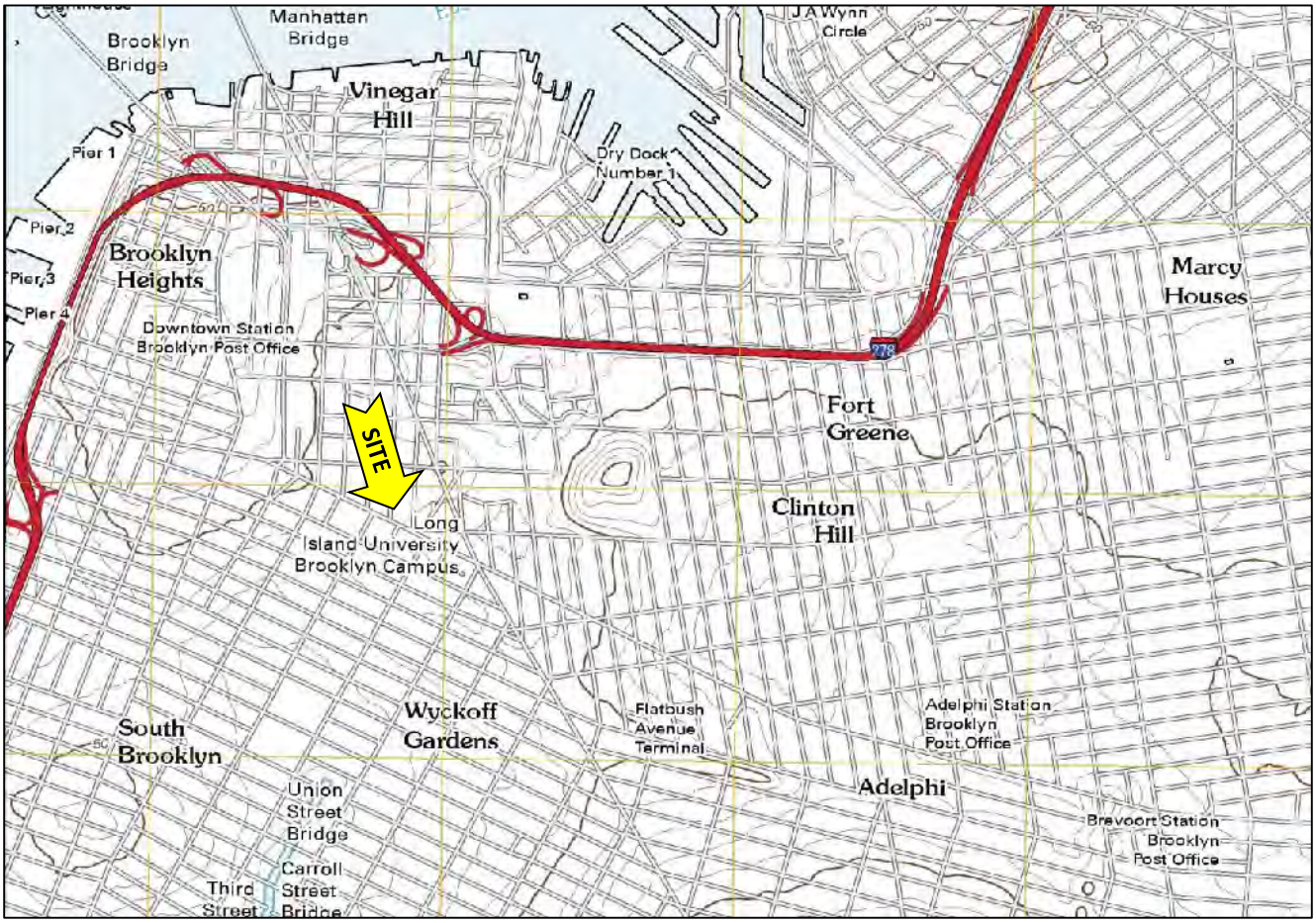
[c] Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

* Groundwater filtered

Exceedances of a standard are highlighted in yellow and bolded

Detection of a compound is highlighted in blue

Figures



SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2

1000 500 0 METERS 1000 2000

1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

CONTOUR INTERVAL 10 FEET

Obtained from United States Geological Survey topography compiled 2010

Fleming Lee Shue

Figure 1: Site Location Map

SITE: 388 Bridge Street
Brooklyn, New York

Saint Joseph
High School

SVE-MW-4	5/7/2019
Tetrachloroethene	46.5
Trichloroethene	3.2
cis-1,2-Dichloroethene	3
Chloroform	7.1

SVE–2

SVE–MW–4

SVE–MW–3
(Abandoned)

SVE–MW–6
(Abandoned)

MP–3

CELLAR LEVEL

SUB CELLAR
LEVEL

MP–6

SVE–MW–5

SVE-MW-5	5/7/2019
Tetrachloroethene	36.6
Trichloroethene	2.2
cis-1,2-Dichloroethene	1.3
Chloroform	3.8

SVE–MW–1

SVE-MW-1	5/7/2019
Tetrachloroethene	7.3
Trichloroethene	ND (0.53)
cis-1,2-Dichloroethene	ND (0.51)
Chloroform	3

Compound	TOGS
Tetrachloroethene	5
Trichloroethene	5
cis-1,2-Dichloroethene	5
Chloroform	7

Notes:
Concentrations in ug/L
Concentrations in excess of TOGS standards highlighted in blue
J - estimated concentration (detection limit)
ND - not detected (detection limit)

0 20 40
Scale (feet)

N

Bridge St.

Fleming Lee Shue

Environmental Management & Consulting

158 West 29th Street, 9th Fl.
New York, NY 10001

388 Bridge Street
Brooklyn, NY
BCP Site # C224134

Figure 2

Site Plan and Chlorinated VOCs in Groundwater

May 2019

Project Number
10149-001

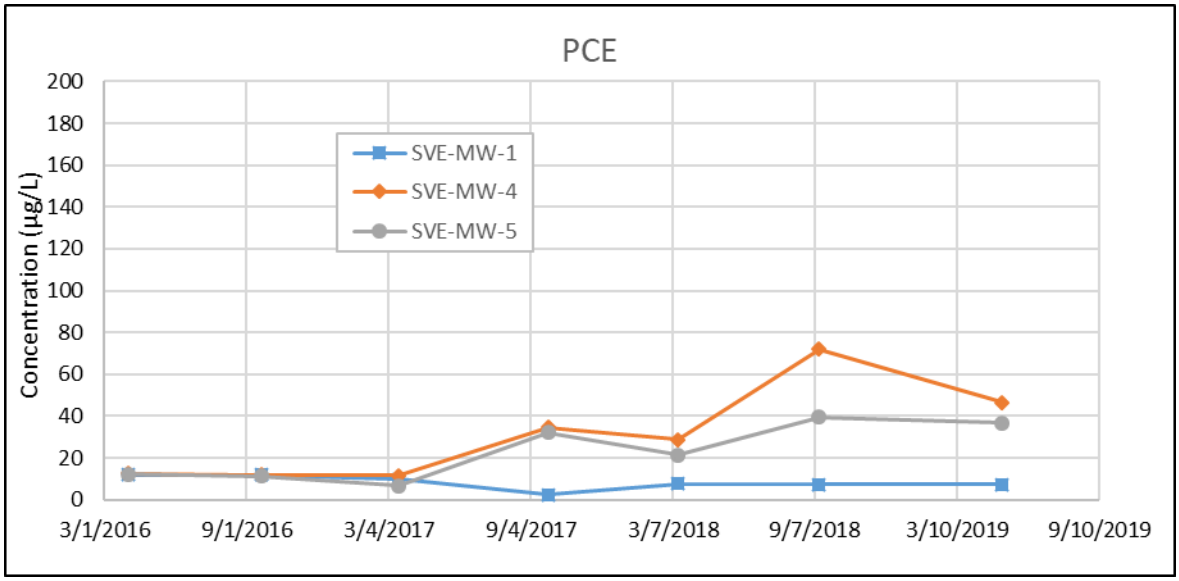
LEGEND

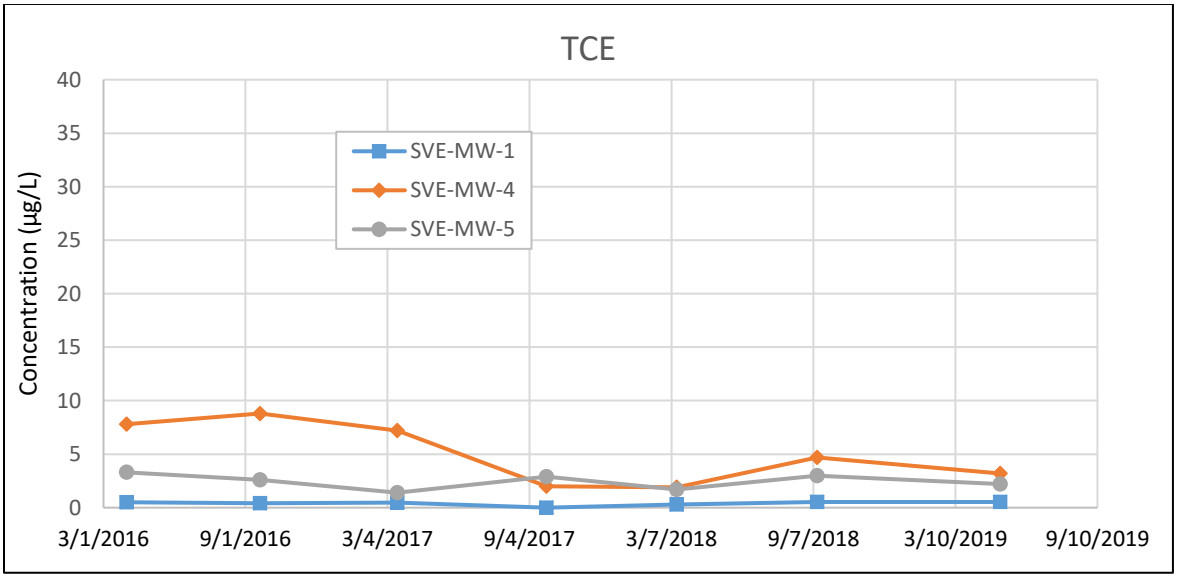
- Site Boundary
- Lot Lines
- Active SVE Well
- Groundwater Monitoring Well
- Vacuum Monitoring Point

FILE: P:\10149 – Stahl Real Estate\001 – 388 Bridge St\Figures\Groundwater Sampling\07 – 201902\Figure 2 – Site Plan with GW Summary.dwg DATE: 6/25/2019

Graphs

Graphs – Contaminant Concentration Trends
Semi-Annual Groundwater Report
388 Bridge Street, Brooklyn, NY





Appendix A

Monitoring Well Purge Logs

Fleming Lee Shue

Environmental Management & Consulting

158 West 29th Street, 9Fl. , New York, New York 10001

Well Purge Log
Project: Stahl Real Estate
Project Location: 388 Bridge St, Brooklyn, NY

Monitoring Well:	SVE-MW-1	Well Volume :	0.88 gal	Initial Depth to Water:	17.65 ft-btc
Date:	5/7/2019	Total Gallons Purged:	2.4 gal	Depth to Product:	- ft-btc
Time Pump On:	9:58	Average Purge Rate:	215.7 mL/min	Total Depth:	18.99 ft-btc
Time of Sample Collection:	10:32	Purge Method:	Peristaltic	Water Column:	1.34 ft
Time Pump Off:	10:40	PID Reading:	- ppm	Well Diameter	4 in

Time	Elapsed Time (min.)	DTW (ft-btc)	Well Volume Purged (gal)	Total Volume Purged (gal)	Temp (˚C)	pH (s.u.)	ORP (mV)	Cond (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	TDS (g/l)	Sal (%)	Odor/Color
10:01	3	-	-	-	18.65	7.86	128	1.6	68.5	6.14	1.03	0.08	Clear, no odor
10:06	8				18.48	7.81	137	1.61	54.8	5.83	1.03	0.08	Clear, no odor
10:11	13				18.45	7.69	140	1.63	19.1	5.29	1.04	0.08	Clear, no odor
10:16	18				18.42	7.6	137	1.64	5.0	4.73	1.05	0.08	Clear, no odor
10:21	23				18.41	7.57	131	1.65	0.0	4.55	1.05	0.08	Clear, no odor
10:26	28				18.39	7.55	127	1.65	0.0	4.49	1.05	0.08	Clear, no odor
	Allowable Fluctuations:				3%	± 0.1	± 10 mV	3%	10% if > 5 NTU 3 rounds if < 5 NTU	10% if >0.5 mg/L 3 rounds if < 0.5mg/L			

Notes:

ppm = parts per million
min = minutes
DTW = depth to water
ft-btc = feet below top of casing
gal = gallons
T = temperature
˚C= degrees celsius

s.u.=standard units
ORP=oxidation reduction potential
mV=millivolts
Cond=conductivity
mS/cm= milliSiemens per centimeter
NTUs=Nephelemetric Turbidity Units
mg/L = milligrams per liter

mL/min = milliliters per minute
TDS = Total Dissolved Solids
g/L = grams per liter
Sal= Salinity
wc = water column

Well Volume (gal) = 5.8752 * D^2* WC, where D = well diameter (feet)

Well diameter	1"	2"	4"
Multiply wc by	0.041	0.163	0.653

Fleming Lee Shue

Environmental Management & Consulting

158 West 29th Street, 9Fl. , New York, New York 10001

Well Purge Log
Project: Stahl Real Estate
Project Location: 388 Bridge St, Brooklyn, NY

Monitoring Well: SVE-MW-4 | Well Volume : 2.79 gal | Initial Depth to Water: 17.52 ft-btc

Date: 5/7/2019 | Total Gallons Purged: 2.2 gal | Depth to Product: - ft-btc

Time Pump On: 11:11 | Average Purge Rate: 189.25 mL/min | Total Depth: 21.8 ft-btc

Time of Sample Collection: 11:45 | Purge Method: Peristaltic | Water Column: 4.28 ft

Time Pump Off: 11:55 | PID Reading: - ppm | Well Diameter 4 in

Time	Elapsed Time (min.)	DTW (ft-btc)	Well Volume Purged (gal)	Total Volume Purged (gal)	Temp (˚C)	pH (s.u.)	ORP (mV)	Cond (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	TDS (g/l)	Sal (%)	Odor/Color
11:14	3	-	-	-	18.88	7.63	163	1.09	0	3.61	0.699	0.05	No odor, clear
11:19	8				18.92	7.47	128	1.09	0	3.13	0.697	0.05	No odor, clear
11:24	13				18.95	7.43	93	1.09	0	2.9	0.696	0.05	No odor, clear
11:29	18				18.96	7.42	94	1.09	0	2.89	0.696	0.05	No odor, clear
11:34	23				18.96	7.41	95	1.09	0	2.86	0.697	0.05	No odor, clear
11:39	28				18.96	7.4	91	1.09	0	2.86	0.697	0.05	No odor, clear
		Allowable Fluctuations:			3%	± 0.1	± 10 mV	3%	10% if > 5 NTU 3 rounds if < 5 NTU	10% if >0.5 mg/L 3 rounds if < 0.5mg/L			

Notes:

ppm = parts per million
min = minutes
DTW = depth to water
ft-btc = feet below top of casing
gal = gallons
T = temperature
˚C= degrees celsius

s.u.=standard units
ORP=oxidation reduction potential
mV=millivolts
Cond=conductivity
mS/cm= milliSiemens per centimeter
NTUs=Nephelemetric Turbidity Units
mg/L = milligrams per liter

mL/min = milliliters per minute
TDS = Total Dissolved Solids
g/L = grams per liter
Sal= Salinity
wc = water column

Well Volume (gal) = 5.8752 * D^2* WC, where D = well diameter (feet)

Well diameter	1"	2"	4"
Multiply wc by	0.041	0.163	0.653

Fleming Lee Shue

Environmental Management & Consulting

158 West 29th Street, 9Fl. , New York, New York 10001

Well Purge Log
Project: Stahl Real Estate
Project Location: 388 Bridge St, Brooklyn, NY

Monitoring Well: SVE-MW-5 | Well Volume : 2.00 gal | Initial Depth to Water: 17.36 ft-btc

Date: 5/7/2019 | Total Gallons Purged: 2.4 gal | Depth to Product: - ft-btc

Time Pump On: 13:36 | Average Purge Rate: 226.51 mL/min | Total Depth: 20.42 ft-btc

Time of Sample Collection: 14:10 | Purge Method: Peristaltic | Water Column: 3.06 ft

Time Pump Off: 14:16 | PID Reading: 0.0 ppm | Well Diameter 4 in

Time	Elapsed Time (min.)	DTW (ft-btc)	Well Volume Purged (gal)	Total Volume Purged (gal)	Temp (˚C)	pH (s.u.)	ORP (mV)	Cond (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	TDS (g/l)	Sal (%)	Odor/Color
13:39	3	-	-	-	18.64	7.66	170	0.992	0	5.06	0.635	0.05	no color, no odor
13:44	8				18.65	7.61	158	0.991	0	4.52	0.635	0.05	no color, no odor
13:49	13				18.66	7.59	117	0.99	0	4.38	0.634	0.05	no color, no odor
13:54	18				18.66	7.57	103	0.99	0	4.17	0.634	0.05	no color, no odor
13:59	23				18.66	7.57	108	0.986	0	4.12	0.631	0.05	no color, no odor
14:04	28				18.67	7.57	101	0.988	0	4.08	0.633	0.05	no color, no odor
	Allowable Fluctuations:				3%	± 0.1	± 10 mV	3%	10% if > 5 NTU 3 rounds if < 5 NTU	10% if >0.5 mg/L 3 rounds if < 0.5mg/L			

Notes:

ppm = parts per million
min = minutes
DTW = depth to water
ft-btc = feet below top of casing
gal = gallons
T = temperature
˚C= degrees celsius

s.u.=standard units
ORP=oxidation reduction potential
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NTUs=Nephelemetric Turbidity Units
mg/L = milligrams per liter

mL/min = milliliters per minute
TDS = Total Dissolved Solids
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Sal= Salinity
wc = water column

Well Volume (gal) = 5.8752 * D^2* WC, where D = well diameter (feet)

Well diameter	1"	2"	4"
Multiply wc by	0.041	0.163	0.653

Appendix B

Laboratory Analytical Data Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Fleming-Lee Shue, Inc.

388 Bridge Street, Brooklyn, NY

10149

SGS Job Number: JC87667

Sampling Date: 05/07/19

Report to:

Fleming-Lee Shue, Inc.
158 West 29th Street
9th Floor
New York, NY 10001

ATTN: Steve Panter

Total number of pages in report: **386**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Brian McGuire
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Table of Contents

Table of Contents

SGS North America Inc.

Sample Summary

Fleming-Lee Shue, Inc.

388 Bridge Street, Brooklyn, NY
Project No: 10149

Job No: JC87667

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JC87667-1	05/07/19	10:32	JA	05/07/19	AQ	Ground Water	SVE-MW-1
JC87667-1F	05/07/19	10:32	JA	05/07/19	AQ	Groundwater Filtered	SVE-MW-1
JC87667-2	05/07/19	11:45	JA	05/07/19	AQ	Ground Water	SVE-MW-4
JC87667-2F	05/07/19	11:45	JA	05/07/19	AQ	Groundwater Filtered	SVE-MW-4
JC87667-3	05/07/19	14:10	JA	05/07/19	AQ	Ground Water	SVE-MW-5
JC87667-3F	05/07/19	14:10	JA	05/07/19	AQ	Groundwater Filtered	SVE-MW-5
JC87667-4	05/07/19	14:10	JA	05/07/19	AQ	Trip Blank Water	TB-1
JC87667-5	05/07/19	14:00	JA	05/07/19	AQ	Field Blank Water	FB-1
JC87667-5F	05/07/19	14:00	JA	05/07/19	AQ	Field Blank Filtered	FB-1

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Fleming-Lee Shue, Inc.	**Job No**	JC87667
Site:	388 Bridge Street, Brooklyn, NY	**Report Date**	5/22/2019 10:40:44 A

On 05/07/2019, 3 Sample(s), 1 Trip Blank(s) and 2 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC87667 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ **Batch ID:** VL9062

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC87593-2MS, JC87593-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP21267

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC87662-1DUP, JC87662-1MS were used as the QC samples for Sulfate.

General Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ **Batch ID:** GP21328

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC87667-1DUP, JC87667-1MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.
- Matrix Spike Recovery(s) for Nitrogen, Nitrate + Nitrite are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

General Chemistry By Method EPA353.2/SM4500NO2B

Matrix: AQ **Batch ID:** R178444

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JC87667-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ **Batch ID:** R178445

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JC87667-2 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ **Batch ID:** R178446

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JC87667-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ **Batch ID:** R178447

- The data for EPA353.2/SM4500NO2B meets quality control requirements.
- JC87667-5 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

General Chemistry By Method SM3500FE B-11

Matrix: AQ **Batch ID:** GN95038

- All method blanks for this batch meet method specific criteria.
- Sample(s) JC87427-3DUP, JC87427-3MS, JC87427-3MSD were used as the QC samples for Iron, Ferrous.
- JC87667-3 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.
- JC87667-2 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.
- JC87667-1 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.
- JC87667-5 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

General Chemistry By Method SM4500NO2 B-11

Matrix: AQ **Batch ID:** GN95104

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC87695-11DUP, JC87695-11MS were used as the QC samples for Nitrogen, Nitrite.

General Chemistry By Method SM5310 B-11

Matrix: AQ **Batch ID:** GP21322

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC87667-2MS, JC87667-2MSD were used as the QC samples for Total Organic Carbon.

Matrix: AQ **Batch ID:** GP21380

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC87695-6FMS, JC87695-6FMSD were used as the QC samples for Dissolved Organic Carbon.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JC87667
Account: Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY
Collected: 05/07/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC87667-1	**SVE-MW-1**					
Chloroform		3.0	1.0	0.50	ug/l	SW846 8260C
Tetrachloroethene		7.3	1.0	0.90	ug/l	SW846 8260C
Nitrogen, Nitrate [a]		7.8	0.41		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite		7.8	0.40		mg/l	EPA 353.2/LACHAT
Sulfate		115	2.0		mg/l	EPA 300/SW846 9056A
JC87667-1F	**SVE-MW-1**					
No hits reported in this sample.						
JC87667-2	**SVE-MW-4**					
Chloroform		7.1	1.0	0.50	ug/l	SW846 8260C
cis-1,2-Dichloroethene		3.0	1.0	0.51	ug/l	SW846 8260C
Tetrachloroethene		46.5	1.0	0.90	ug/l	SW846 8260C
Trichloroethene		3.2	1.0	0.53	ug/l	SW846 8260C
Nitrogen, Nitrate [a]		10.8	0.41		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite		10.8	0.40		mg/l	EPA 353.2/LACHAT
Sulfate		94.7	2.0		mg/l	EPA 300/SW846 9056A
JC87667-2F	**SVE-MW-4**					
No hits reported in this sample.						
JC87667-3	**SVE-MW-5**					
Chloroform		3.8	1.0	0.50	ug/l	SW846 8260C
cis-1,2-Dichloroethene		1.3	1.0	0.51	ug/l	SW846 8260C
Tetrachloroethene		36.6	1.0	0.90	ug/l	SW846 8260C
Trichloroethene		2.2	1.0	0.53	ug/l	SW846 8260C
Nitrogen, Nitrate [a]		13.0	0.41		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite		13.0	0.40		mg/l	EPA 353.2/LACHAT
Sulfate		72.7	2.0		mg/l	EPA 300/SW846 9056A
JC87667-3F	**SVE-MW-5**					
Dissolved Organic Carbon		1.1	1.0		mg/l	SM5310 B-11
JC87667-4	**TB-1**					
No hits reported in this sample.						

Summary of Hits

Job Number: JC87667
Account: Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY
Collected: 05/07/19

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JC87667-5 **FB-1**

No hits reported in this sample.

JC87667-5F **FB-1**

No hits reported in this sample.

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SVE-MW-1		
Lab Sample ID:	JC87667-1	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L311771.D	1	05/08/19 23:25	DG	n/a	n/a	VL9062
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	3.0	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-MW-1		
Lab Sample ID:	JC87667-1	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	7.3	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		81-124%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-MW-1		
Lab Sample ID:	JC87667-1	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
		Percent Solids:	n/a
Project:	388 Bridge Street, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron, Ferrous [a]	< 0.20	0.20	mg/l	1	05/07/19 20:18	JO	SM3500FE B-11
Nitrogen, Nitrate [b]	7.8	0.41	mg/l	1	05/20/19 14:03	KI	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	7.8	0.40	mg/l	4	05/20/19 14:03	KI	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	05/08/19 20:57	JO	SM4500NO2 B-11
Sulfate	115	2.0	mg/l	1	05/16/19 08:50	NV	EPA 300/SW846 9056A
Total Organic Carbon	< 1.0	1.0	mg/l	1	05/17/19 23:31	CD	SM5310 B-11

(a) Field analysis required. Received out of hold time and analyzed by request.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SVE-MW-1		
Lab Sample ID:	JC87667-1F	**Date Sampled:**	05/07/19
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/07/19
		Percent Solids:	n/a
Project:	388 Bridge Street, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	05/21/19 16:42	CD	SM5310 B-11

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SVE-MW-4		
Lab Sample ID:	JC87667-2	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L311772.D	1	05/08/19 23:52	DG	n/a	n/a	VL9062
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	7.1	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.0	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-MW-4		
Lab Sample ID:	JC87667-2	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	46.5	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	3.2	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		81-124%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-MW-4		
Lab Sample ID:	JC87667-2	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
		Percent Solids:	n/a
Project:	388 Bridge Street, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron, Ferrous [a]	< 0.20	0.20	mg/l	1	05/07/19 20:18	JO	SM3500FE B-11
Nitrogen, Nitrate [b]	10.8	0.41	mg/l	1	05/20/19 14:05	KI	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	10.8	0.40	mg/l	4	05/20/19 14:05	KI	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	05/08/19 20:57	JO	SM4500NO2 B-11
Sulfate	94.7	2.0	mg/l	1	05/16/19 09:13	NV	EPA 300/SW846 9056A
Total Organic Carbon	< 1.0	1.0	mg/l	1	05/17/19 23:42	CD	SM5310 B-11

(a) Field analysis required. Received out of hold time and analyzed by request.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SVE-MW-4		
Lab Sample ID:	JC87667-2F	**Date Sampled:**	05/07/19
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/07/19
		Percent Solids:	n/a
Project:	388 Bridge Street, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	05/21/19 16:54	CD	SM5310 B-11

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SVE-MW-5		
Lab Sample ID:	JC87667-3	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L311773.D	1	05/09/19 00:20	DG	n/a	n/a	VL9062
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	3.8	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.3	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-MW-5		
Lab Sample ID:	JC87667-3	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	36.6	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	2.2	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		80-120%
17060-07-0	1,2-Dichloroethane-D4	88%		81-124%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-MW-5		
Lab Sample ID:	JC87667-3	**Date Sampled:**	05/07/19
Matrix:	AQ - Ground Water	**Date Received:**	05/07/19
		Percent Solids:	n/a
Project:	388 Bridge Street, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron, Ferrous [a]	< 0.20	0.20	mg/l	1	05/07/19 20:23	JO	SM3500FE B-11
Nitrogen, Nitrate [b]	13.0	0.41	mg/l	1	05/20/19 14:07	KI	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	13.0	0.40	mg/l	4	05/20/19 14:07	KI	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	05/08/19 20:57	JO	SM4500NO2 B-11
Sulfate	72.7	2.0	mg/l	1	05/16/19 09:37	NV	EPA 300/SW846 9056A
Total Organic Carbon	< 1.0	1.0	mg/l	1	05/18/19 00:15	CD	SM5310 B-11

(a) Field analysis required. Received out of hold time and analyzed by request.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SVE-MW-5		
Lab Sample ID:	JC87667-3F	**Date Sampled:**	05/07/19
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/07/19
		Percent Solids:	n/a
Project:	388 Bridge Street, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	1.1	1.0	mg/l	1	05/21/19 17:08	CD	SM5310 B-11

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	TB-1		
Lab Sample ID:	JC87667-4	**Date Sampled:**	05/07/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L311769.D	1	05/08/19 22:31	DG	n/a	n/a	VL9062
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-1		
Lab Sample ID:	JC87667-4	**Date Sampled:**	05/07/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		80-120%
17060-07-0	1,2-Dichloroethane-D4	86%		81-124%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JC87667-5	**Date Sampled:**	05/07/19
Matrix:	AQ - Field Blank Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L311770.D	1	05/08/19 22:58	DG	n/a	n/a	VL9062
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JC87667-5	**Date Sampled:**	05/07/19
Matrix:	AQ - Field Blank Water	**Date Received:**	05/07/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	388 Bridge Street, Brooklyn, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		81-124%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JC87667-5	**Date Sampled:**	05/07/19
Matrix:	AQ - Field Blank Water	**Date Received:**	05/07/19
		Percent Solids:	n/a
Project:	388 Bridge Street, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron, Ferrous [a]	< 0.20	0.20	mg/l	1	05/07/19 20:23	JO	SM3500FE B-11
Nitrogen, Nitrate [b]	< 0.11	0.11	mg/l	1	05/20/19 13:19	KI	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	05/20/19 13:19	KI	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	05/08/19 20:57	JO	SM4500NO2 B-11
Sulfate	< 2.0	2.0	mg/l	1	05/16/19 10:01	NV	EPA 300/SW846 9056A
Total Organic Carbon	< 1.0	1.0	mg/l	1	05/18/19 00:26	CD	SM5310 B-11

(a) Field analysis required. Received out of hold time and analyzed by request.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JC87667-5F	**Date Sampled:**	05/07/19
Matrix:	AQ - Field Blank Filtered	**Date Received:**	05/07/19
		Percent Solids:	n/a
Project:	388 Bridge Street, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Dissolved Organic Carbon	< 1.0	1.0	mg/l	1	05/21/19 17:20	CD	SM5310 B-11

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

GW FB TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

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E/F

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JC87667

Client / Reporting Information

Company Name: Fleming Lee Shue, Inc.
Street Address: 158 W. 29th St. Fl. 9
City: New York State: NY Zip: 10001
Project Contact: M. Hutson E-mail: mark@flemingleeshue
Phone #: 212-675-8225
Sampler(s) Name(s): J. Arey Phone #: 704-726-0420

Project Information

Project Name: 388 Bridge Street
Street: 388 Bridge St.
City: Brooklyn State: NY
Project #: 10149
Client Purchase Order #:
Project Manager: M. Hutson

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VB260TCL11	X N030	SO4	FE2	DOC [LF]	TOC	LAB USE ONLY
1F	SVE - MW-1		5/7/19	10:32	JA	G	GW	9	4			1	4				X	X	X	X	X	X	6135
2F	SVE - MW-4			11:45	JA	G	GW	9	4			1	4				X	X	X	X	X	X	1921
3F	SVE - MW-5			14:10	JA	G	GW	9	4			1	4				X	X	X	X	X	X	V1086
4	TB - 1			~~7:00~~	-		TB	2	2								X						
5F	FB - 1			14:00	JA		FB	8	3			1	4				X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink | * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only, Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Field Blank Label is FB-1

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	[signature]	5/7/19 1500	1 Chris Lau
2	Chris Lau	5/7/19 1640	2 [signature]
3			3
4			4
5			5

Custody Seal # 24074 [x] Intact [ ] Not Intact | Preserved where applicable [ ] Absent | Therm. ID: | On Ice [x] | Cooler Temp. °C 3.6 corr

INITIAL ASESSMENT 3A(N)

LABEL VERIFICATION_____

EHSA-QAC-0023-02-FORM-Dayton - Standard COC.xlsx

JC87667: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JC87667 **Client:** FLEMING-LEE SHUE, INC. **Project:** 388 BRIDGE STREET, BROOKLYN, NY

Date / Time Received: 5/7/2019 4:40:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 206717 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JC87667: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Fleming-Lee Shue, Inc.

Job No: JC87667

388 Bridge Street, Brooklyn, NY
Project No: 10149

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC87667-1	Collected: 07-MAY-19 10:32 By: JA		Received: 07-MAY-19 By: AS			
SVE-MW-1						
JC87667-1	SM3500FE B-11	07-MAY-19 20:18	JO			FE2
JC87667-1	SM4500NO2 B-11	08-MAY-19 20:57	JO			NO2
JC87667-1	SW846 8260C	08-MAY-19 23:25	DG			V8260TCL11
JC87667-1	EPA 300/SW846 9056A	16-MAY-19 08:50	NV	15-MAY-19	NV	SO4
JC87667-1	SM5310 B-11	17-MAY-19 23:31	CD	17-MAY-19	CD	TOC
JC87667-1	EPA353.2/SM4500NO2B	20-MAY-19 14:03	KI			NO3O
JC87667-1	EPA 353.2/LACHAT	20-MAY-19 14:03	KI	17-MAY-19	KI	NO32
JC87667-2	Collected: 07-MAY-19 11:45 By: JA		Received: 07-MAY-19 By: AS			
SVE-MW-4						
JC87667-2	SM3500FE B-11	07-MAY-19 20:18	JO			FE2
JC87667-2	SM4500NO2 B-11	08-MAY-19 20:57	JO			NO2
JC87667-2	SW846 8260C	08-MAY-19 23:52	DG			V8260TCL11
JC87667-2	EPA 300/SW846 9056A	16-MAY-19 09:13	NV	15-MAY-19	NV	SO4
JC87667-2	SM5310 B-11	17-MAY-19 23:42	CD	17-MAY-19	CD	TOC
JC87667-2	EPA353.2/SM4500NO2B	20-MAY-19 14:05	KI			NO3O
JC87667-2	EPA 353.2/LACHAT	20-MAY-19 14:05	KI	17-MAY-19	KI	NO32
JC87667-3	Collected: 07-MAY-19 14:10 By: JA		Received: 07-MAY-19 By: AS			
SVE-MW-5						
JC87667-3	SM3500FE B-11	07-MAY-19 20:23	JO			FE2
JC87667-3	SM4500NO2 B-11	08-MAY-19 20:57	JO			NO2
JC87667-3	SW846 8260C	09-MAY-19 00:20	DG			V8260TCL11
JC87667-3	EPA 300/SW846 9056A	16-MAY-19 09:37	NV	15-MAY-19	NV	SO4
JC87667-3	SM5310 B-11	18-MAY-19 00:15	CD	17-MAY-19	CD	TOC
JC87667-3	EPA353.2/SM4500NO2B	20-MAY-19 14:07	KI			NO3O
JC87667-3	EPA 353.2/LACHAT	20-MAY-19 14:07	KI	17-MAY-19	KI	NO32
JC87667-4	Collected: 07-MAY-19 14:10 By: JA		Received: 07-MAY-19 By: AS			
TB-1						
JC87667-4	SW846 8260C	08-MAY-19 22:31	DG			V8260TCL11

Internal Sample Tracking Chronicle

Fleming-Lee Shue, Inc.

388 Bridge Street, Brooklyn, NY
Project No: 10149

Job No: JC87667

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC87667-5	Collected: 07-MAY-19 14:00 By: JA		Received: 07-MAY-19 By: AS			
FB-1						
JC87667-5	SM3500FE B-11	07-MAY-19 20:23	JO			FE2
JC87667-5	SM4500NO2 B-11	08-MAY-19 20:57	JO			NO2
JC87667-5	SW846 8260C	08-MAY-19 22:58	DG			V8260TCL11
JC87667-5	EPA 300/SW846 9056A	16-MAY-19 10:01	NV	15-MAY-19	NV	SO4
JC87667-5	SM5310 B-11	18-MAY-19 00:26	CD	17-MAY-19	CD	TOC
JC87667-5	EPA353.2/SM4500NO2B	20-MAY-19 13:19	KI			NO3O
JC87667-5	EPA 353.2/LACHAT	20-MAY-19 13:19	KI	17-MAY-19	KI	NO32
JC87667-1F	Collected: 07-MAY-19 10:32 By: JA		Received: 07-MAY-19 By: AS			
SVE-MW-1						
JC87667-1F	SM5310 B-11	21-MAY-19 16:42	CD	21-MAY-19	CD	DOC
JC87667-2F	Collected: 07-MAY-19 11:45 By: JA		Received: 07-MAY-19 By: AS			
SVE-MW-4						
JC87667-2F	SM5310 B-11	21-MAY-19 16:54	CD	21-MAY-19	CD	DOC
JC87667-3F	Collected: 07-MAY-19 14:10 By: JA		Received: 07-MAY-19 By: AS			
SVE-MW-5						
JC87667-3F	SM5310 B-11	21-MAY-19 17:08	CD	21-MAY-19	CD	DOC
JC87667-5F	Collected: 07-MAY-19 14:00 By: JA		Received: 07-MAY-19 By: AS			
FB-1						
JC87667-5F	SM5310 B-11	21-MAY-19 17:20	CD	21-MAY-19	CD	DOC

SGS Internal Chain of Custody

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY
Received: 05/07/19

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC87667-1.2	Secured Storage	Sahara Feliciano	05/08/19 15:58	Retrieve from Storage
JC87667-1.2	Sahara Feliciano	Secured Staging Area	05/08/19 15:58	Return to Storage
JC87667-1.2	Secured Staging Area	Michael Olcott	05/08/19 16:29	Retrieve from Storage
JC87667-1.2	Michael Olcott	Secured Storage	05/08/19 23:27	Return to Storage
JC87667-1.3	Secured Storage	Dwayne Johnson	05/15/19 08:48	Retrieve from Storage
JC87667-1.3	Dwayne Johnson	Secured Staging Area	05/15/19 08:48	Return to Storage
JC87667-1.3	Secured Staging Area	Natasha Verma	05/15/19 09:07	Retrieve from Storage
JC87667-1.3	Natasha Verma	Secured Storage	05/15/19 17:15	Return to Storage
JC87667-1.4	Secured Storage	Todd Shoemaker	05/17/19 11:17	Retrieve from Storage
JC87667-1.4	Todd Shoemaker	Secured Staging Area	05/17/19 11:17	Return to Storage
JC87667-1.4	Secured Staging Area	Kimberly Ignace	05/17/19 18:26	Retrieve from Storage
JC87667-1.4	Kimberly Ignace	Secured Storage	05/17/19 20:25	Return to Storage
JC87667-1.5	Secured Storage	Matthew Robbins	05/14/19 18:59	Retrieve from Storage
JC87667-1.5	Matthew Robbins	Secured Staging Area	05/14/19 18:59	Return to Storage
JC87667-1.5	Secured Staging Area	Courtney Dringus	05/15/19 06:53	Retrieve from Storage
JC87667-1.5	Courtney Dringus	Secured Storage	05/15/19 10:06	Return to Storage
JC87667-1.5	Secured Storage	Benjamin Gaines	05/16/19 16:06	Retrieve from Storage
JC87667-1.5	Benjamin Gaines	Secured Staging Area	05/16/19 16:06	Return to Storage
JC87667-1.5	Secured Staging Area	Courtney Dringus	05/17/19 08:50	Retrieve from Storage
JC87667-1.5	Courtney Dringus	Secured Storage	05/17/19 14:54	Return to Storage
JC87667-1.7	Secured Storage	Devin Gomez	05/08/19 20:09	Retrieve from Storage
JC87667-1.7	Devin Gomez	GCMSL	05/08/19 20:09	Load on Instrument
JC87667-1.7	GCMSL	Bridget Kelly	05/09/19 09:36	Unload from Instrument
JC87667-1.7	Bridget Kelly	Secured Storage	05/09/19 09:36	Return to Storage
JC87667-1F.6	Secured Storage	Sahara Feliciano	05/19/19 09:50	Retrieve from Storage
JC87667-1F.6	Sahara Feliciano	Secured Staging Area	05/19/19 09:50	Return to Storage
JC87667-1F.6	Secured Staging Area	Courtney Dringus	05/20/19 07:55	Retrieve from Storage
JC87667-1F.6	Courtney Dringus	Secured Storage	05/20/19 15:26	Return to Storage
JC87667-2.2	Secured Storage	Sahara Feliciano	05/08/19 15:58	Retrieve from Storage
JC87667-2.2	Sahara Feliciano	Secured Staging Area	05/08/19 15:58	Return to Storage
JC87667-2.2	Secured Staging Area	Michael Olcott	05/08/19 16:29	Retrieve from Storage
JC87667-2.2	Michael Olcott	Secured Storage	05/08/19 23:27	Return to Storage
JC87667-2.3	Secured Storage	Dwayne Johnson	05/15/19 08:48	Retrieve from Storage
JC87667-2.3	Dwayne Johnson	Secured Staging Area	05/15/19 08:48	Return to Storage
JC87667-2.3	Secured Staging Area	Natasha Verma	05/15/19 09:07	Retrieve from Storage
JC87667-2.3	Natasha Verma	Secured Storage	05/15/19 17:15	Return to Storage

SGS Internal Chain of Custody

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY
Received: 05/07/19

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC87667-2.4	Secured Storage	Todd Shoemaker	05/17/19 11:17	Retrieve from Storage
JC87667-2.4	Todd Shoemaker	Secured Staging Area	05/17/19 11:17	Return to Storage
JC87667-2.4	Secured Staging Area	Kimberly Ignace	05/17/19 18:26	Retrieve from Storage
JC87667-2.4	Kimberly Ignace	Secured Storage	05/17/19 20:25	Return to Storage
JC87667-2.5	Secured Storage	Matthew Robbins	05/14/19 18:59	Retrieve from Storage
JC87667-2.5	Matthew Robbins	Secured Staging Area	05/14/19 18:59	Return to Storage
JC87667-2.5	Secured Staging Area	Courtney Dringus	05/15/19 06:53	Retrieve from Storage
JC87667-2.5	Courtney Dringus	Secured Storage	05/15/19 10:06	Return to Storage
JC87667-2.5	Secured Storage	Benjamin Gaines	05/16/19 16:06	Retrieve from Storage
JC87667-2.5	Benjamin Gaines	Secured Staging Area	05/16/19 16:06	Return to Storage
JC87667-2.5	Secured Staging Area	Courtney Dringus	05/17/19 08:50	Retrieve from Storage
JC87667-2.5	Courtney Dringus	Secured Storage	05/17/19 14:54	Return to Storage
JC87667-2.7	Secured Storage	Devin Gomez	05/08/19 20:09	Retrieve from Storage
JC87667-2.7	Devin Gomez	GCMSL	05/08/19 20:09	Load on Instrument
JC87667-2.7	GCMSL	Bridget Kelly	05/09/19 09:36	Unload from Instrument
JC87667-2.7	Bridget Kelly	Secured Storage	05/09/19 09:36	Return to Storage
JC87667-2F.6	Secured Storage	Sahara Feliciano	05/19/19 09:50	Retrieve from Storage
JC87667-2F.6	Sahara Feliciano	Secured Staging Area	05/19/19 09:50	Return to Storage
JC87667-2F.6	Secured Staging Area	Courtney Dringus	05/20/19 07:55	Retrieve from Storage
JC87667-2F.6	Courtney Dringus	Secured Storage	05/20/19 15:26	Return to Storage
JC87667-3.2	Secured Storage	Dwayne Johnson	05/15/19 08:48	Retrieve from Storage
JC87667-3.2	Dwayne Johnson	Secured Staging Area	05/15/19 08:48	Return to Storage
JC87667-3.2	Secured Staging Area	Natasha Verma	05/15/19 09:07	Retrieve from Storage
JC87667-3.2	Natasha Verma	Secured Storage	05/15/19 17:15	Return to Storage
JC87667-3.3	Secured Storage	Sahara Feliciano	05/08/19 15:58	Retrieve from Storage
JC87667-3.3	Sahara Feliciano	Secured Staging Area	05/08/19 15:58	Return to Storage
JC87667-3.3	Secured Staging Area	Michael Olcott	05/08/19 16:29	Retrieve from Storage
JC87667-3.3	Michael Olcott	Secured Storage	05/08/19 23:27	Return to Storage
JC87667-3.4	Secured Storage	Todd Shoemaker	05/17/19 11:17	Retrieve from Storage
JC87667-3.4	Todd Shoemaker	Secured Staging Area	05/17/19 11:17	Return to Storage
JC87667-3.4	Secured Staging Area	Kimberly Ignace	05/17/19 18:26	Retrieve from Storage
JC87667-3.4	Kimberly Ignace	Secured Storage	05/17/19 20:25	Return to Storage
JC87667-3.5	Secured Storage	Matthew Robbins	05/14/19 18:59	Retrieve from Storage
JC87667-3.5	Matthew Robbins	Secured Staging Area	05/14/19 18:59	Return to Storage
JC87667-3.5	Secured Staging Area	Courtney Dringus	05/15/19 06:53	Retrieve from Storage
JC87667-3.5	Courtney Dringus	Secured Storage	05/15/19 10:06	Return to Storage
JC87667-3.5	Secured Storage	Benjamin Gaines	05/16/19 16:06	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY
Received: 05/07/19

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC87667-3.5	Benjamin Gaines	Secured Staging Area	05/16/19 16:06	Return to Storage
JC87667-3.5	Secured Staging Area	Courtney Dringus	05/17/19 08:50	Retrieve from Storage
JC87667-3.5	Courtney Dringus	Secured Storage	05/17/19 14:54	Return to Storage
JC87667-3.8	Secured Storage	Devin Gomez	05/08/19 20:09	Retrieve from Storage
JC87667-3.8	Devin Gomez	GCMSL	05/08/19 20:09	Load on Instrument
JC87667-3.8	GCMSL	Bridget Kelly	05/09/19 09:36	Unload from Instrument
JC87667-3.8	Bridget Kelly	Secured Storage	05/09/19 09:36	Return to Storage
JC87667-3F.6	Secured Storage	Sahara Feliciano	05/19/19 09:50	Retrieve from Storage
JC87667-3F.6	Sahara Feliciano	Secured Staging Area	05/19/19 09:50	Return to Storage
JC87667-3F.6	Secured Staging Area	Courtney Dringus	05/20/19 07:55	Retrieve from Storage
JC87667-3F.6	Courtney Dringus	Secured Storage	05/20/19 15:26	Return to Storage
JC87667-4.2	Secured Storage	Devin Gomez	05/08/19 20:09	Retrieve from Storage
JC87667-4.2	Devin Gomez	GCMSL	05/08/19 20:09	Load on Instrument
JC87667-4.2	GCMSL	Bridget Kelly	05/09/19 09:36	Unload from Instrument
JC87667-4.2	Bridget Kelly	Secured Storage	05/09/19 09:36	Return to Storage
JC87667-5.2	Secured Storage	Dwayne Johnson	05/15/19 08:48	Retrieve from Storage
JC87667-5.2	Dwayne Johnson	Secured Staging Area	05/15/19 08:48	Return to Storage
JC87667-5.2	Secured Staging Area	Natasha Verma	05/15/19 09:07	Retrieve from Storage
JC87667-5.2	Natasha Verma	Secured Storage	05/15/19 17:15	Return to Storage
JC87667-5.3	Secured Storage	Sahara Feliciano	05/08/19 15:58	Retrieve from Storage
JC87667-5.3	Sahara Feliciano	Secured Staging Area	05/08/19 15:58	Return to Storage
JC87667-5.3	Secured Staging Area	Michael Olcott	05/08/19 16:29	Retrieve from Storage
JC87667-5.3	Michael Olcott	Secured Storage	05/08/19 23:27	Return to Storage
JC87667-5.4	Secured Storage	Todd Shoemaker	05/17/19 11:17	Retrieve from Storage
JC87667-5.4	Todd Shoemaker	Secured Staging Area	05/17/19 11:17	Return to Storage
JC87667-5.4	Secured Staging Area	Kimberly Ignace	05/17/19 18:26	Retrieve from Storage
JC87667-5.4	Kimberly Ignace	Secured Storage	05/17/19 20:25	Return to Storage
JC87667-5.5	Secured Storage	Matthew Robbins	05/14/19 18:59	Retrieve from Storage
JC87667-5.5	Matthew Robbins	Secured Staging Area	05/14/19 18:59	Return to Storage
JC87667-5.5	Secured Staging Area	Courtney Dringus	05/15/19 06:53	Retrieve from Storage
JC87667-5.5	Courtney Dringus	Secured Storage	05/15/19 10:06	Return to Storage
JC87667-5.5	Secured Storage	Benjamin Gaines	05/16/19 16:06	Retrieve from Storage
JC87667-5.5	Benjamin Gaines	Secured Staging Area	05/16/19 16:06	Return to Storage
JC87667-5.5	Secured Staging Area	Courtney Dringus	05/17/19 08:50	Retrieve from Storage
JC87667-5.5	Courtney Dringus	Secured Storage	05/17/19 14:54	Return to Storage
JC87667-5.7	Secured Storage	Devin Gomez	05/08/19 20:09	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY
Received: 05/07/19

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC87667-5.7	Devin Gomez	GCMSL	05/08/19 20:09	Load on Instrument
JC87667-5.7	GCMSL	Bridget Kelly	05/09/19 09:36	Unload from Instrument
JC87667-5.7	Bridget Kelly	Secured Storage	05/09/19 09:36	Return to Storage
JC87667-5F.6	Secured Storage	Sahara Feliciano	05/19/19 09:50	Retrieve from Storage
JC87667-5F.6	Sahara Feliciano	Secured Staging Area	05/19/19 09:50	Return to Storage
JC87667-5F.6	Secured Staging Area	Courtney Dringus	05/20/19 07:55	Retrieve from Storage
JC87667-5F.6	Courtney Dringus	Secured Storage	05/20/19 15:26	Return to Storage

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9062-MB	L311762.D	1	05/08/19	DG	n/a	n/a	VL9062

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC87667-1, JC87667-2, JC87667-3, JC87667-4, JC87667-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	69	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	

Method Blank Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9062-MB	L311762.D	1	05/08/19	DG	n/a	n/a	VL9062

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC87667-1, JC87667-2, JC87667-3, JC87667-4, JC87667-5

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	88%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	81-124%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	95%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9062-BS	L311759.D	1	05/08/19	DG	n/a	n/a	VL9062
VL9062-BSD	L311760.D	1	05/08/19	DG	n/a	n/a	VL9062

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC87667-1, JC87667-2, JC87667-3, JC87667-4, JC87667-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	200	230	115	190	95	19	42-150/22
71-43-2	Benzene	50	49.3	99	48.4	97	2	80-120/20
74-97-5	Bromochloromethane	50	52.1	104	51.2	102	2	84-121/20
75-27-4	Bromodichloromethane	50	51.9	104	50.9	102	2	83-120/20
75-25-2	Bromoform	50	55.2	110	55.0	110	0	76-129/20
74-83-9	Bromomethane	50	62.9	126	59.9	120	5	57-138/20
78-93-3	2-Butanone (MEK)	200	207	104	194	97	6	64-137/20
75-15-0	Carbon disulfide	50	50.6	101	48.8	98	4	64-137/20
56-23-5	Carbon tetrachloride	50	46.4	93	45.8	92	1	75-135/20
108-90-7	Chlorobenzene	50	49.0	98	48.9	98	0	84-117/20
75-00-3	Chloroethane	50	55.2	110	53.7	107	3	63-132/20
67-66-3	Chloroform	50	45.6	91	44.4	89	3	80-119/20
74-87-3	Chloromethane	50	47.1	94	46.1	92	2	46-136/20
110-82-7	Cyclohexane	50	49.0	98	48.1	96	2	64-137/20
96-12-8	1,2-Dibromo-3-chloropropane	50	55.8	112	56.6	113	1	72-127/20
124-48-1	Dibromochloromethane	50	51.9	104	52.0	104	0	80-123/20
106-93-4	1,2-Dibromoethane	50	43.6	87	43.4	87	0	84-117/20
95-50-1	1,2-Dichlorobenzene	50	52.9	106	52.7	105	0	84-119/20
541-73-1	1,3-Dichlorobenzene	50	50.5	101	50.1	100	1	81-117/20
106-46-7	1,4-Dichlorobenzene	50	52.9	106	52.9	106	0	82-117/20
75-71-8	Dichlorodifluoromethane	50	49.7	99	47.1	94	5	36-149/20
75-34-3	1,1-Dichloroethane	50	45.9	92	44.9	90	2	79-120/20
107-06-2	1,2-Dichloroethane	50	45.7	91	43.9	88	4	78-126/20
75-35-4	1,1-Dichloroethene	50	48.6	97	47.3	95	3	69-126/20
156-59-2	cis-1,2-Dichloroethene	50	49.4	99	47.8	96	3	80-120/20
156-60-5	trans-1,2-Dichloroethene	50	49.8	100	49.5	99	1	76-120/20
78-87-5	1,2-Dichloropropane	50	50.8	102	50.2	100	1	82-121/20
10061-01-5	cis-1,3-Dichloropropene	50	52.6	105	51.7	103	2	83-120/20
10061-02-6	trans-1,3-Dichloropropene	50	50.1	100	49.7	99	1	82-121/20
123-91-1	1,4-Dioxane	1250	1430	114	1430	114	0	52-147/20
100-41-4	Ethylbenzene	50	47.5	95	47.9	96	1	80-120/20
76-13-1	Freon 113	50	50.7	101	49.5	99	2	62-182/20
591-78-6	2-Hexanone	200	190	95	188	94	1	65-132/20
98-82-8	Isopropylbenzene	50	48.7	97	49.1	98	1	83-120/20
79-20-9	Methyl Acetate	50	50.3	101	49.2	98	2	67-129/20
108-87-2	Methylcyclohexane	50	46.2	92	45.5	91	2	71-134/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9062-BS	L311759.D	1	05/08/19	DG	n/a	n/a	VL9062
VL9062-BSD	L311760.D	1	05/08/19	DG	n/a	n/a	VL9062

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC87667-1, JC87667-2, JC87667-3, JC87667-4, JC87667-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	50	49.8	100	48.5	97	3	80-119/20
108-10-1	4-Methyl-2-pentanone(MIBK)	200	197	99	195	98	1	71-131/20
75-09-2	Methylene chloride	50	50.8	102	48.9	98	4	77-120/20
100-42-5	Styrene	50	51.2	102	51.3	103	0	82-122/20
79-34-5	1,1,2,2-Tetrachloroethane	50	54.1	108	54.2	108	0	76-119/20
127-18-4	Tetrachloroethene	50	49.5	99	50.0	100	1	70-131/20
108-88-3	Toluene	50	48.5	97	49.0	98	1	80-120/20
87-61-6	1,2,3-Trichlorobenzene	50	53.4	107	53.4	107	0	76-134/20
120-82-1	1,2,4-Trichlorobenzene	50	55.8	112	55.5	111	1	79-132/20
71-55-6	1,1,1-Trichloroethane	50	48.3	97	46.6	93	4	81-128/20
79-00-5	1,1,2-Trichloroethane	50	52.7	105	51.0	102	3	83-118/20
79-01-6	Trichloroethene	50	52.5	105	51.7	103	2	80-120/20
75-69-4	Trichlorofluoromethane	50	49.2	98	47.9	96	3	64-136/20
75-01-4	Vinyl chloride	50	56.8	114	54.4	109	4	51-135/20
	m,p-Xylene	100	94.9	95	95.7	96	1	80-120/20
95-47-6	o-Xylene	50	49.5	99	49.2	98	1	80-120/20
1330-20-7	Xylene (total)	150	144	96	145	97	1	80-120/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	91%	88%	80-120%
17060-07-0	1,2-Dichloroethane-D4	86%	84%	81-124%
2037-26-5	Toluene-D8	91%	92%	80-120%
460-00-4	4-Bromofluorobenzene	99%	99%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC87593-2MS	L311764.D	10	05/08/19	DG	n/a	n/a	VL9062
JC87593-2MSD	L311765.D	10	05/08/19	DG	n/a	n/a	VL9062
JC87593-2 [a]	L311763.D	10	05/08/19	DG	n/a	n/a	VL9062

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC87667-1, JC87667-2, JC87667-3, JC87667-4, JC87667-5

CAS No.	Compound	JC87593-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2000	1760	88	2000	1740	87	1	34-149/17
71-43-2	Benzene	ND		500	480	96	500	487	97	1	54-136/10
74-97-5	Bromochloromethane	ND		500	483	97	500	493	99	2	79-124/11
75-27-4	Bromodichloromethane	ND		500	488	98	500	499	100	2	79-124/11
75-25-2	Bromoform	ND		500	516	103	500	525	105	2	71-130/11
74-83-9	Bromomethane	ND		500	471	94	500	517	103	9	53-142/14
78-93-3	2-Butanone (MEK)	ND		2000	1870	94	2000	1850	93	1	54-142/15
75-15-0	Carbon disulfide	ND		500	486	97	500	494	99	2	59-145/17
56-23-5	Carbon tetrachloride	26.0		500	472	89	500	476	90	1	70-143/12
108-90-7	Chlorobenzene	ND		500	477	95	500	488	98	2	78-123/10
75-00-3	Chloroethane	ND		500	470	94	500	470	94	0	57-141/14
67-66-3	Chloroform	5.4		500	441	87	500	439	87	0	76-123/11
74-87-3	Chloromethane	ND		500	406	81	500	392	78	4	43-141/16
110-82-7	Cyclohexane	ND		500	416	83	500	437	87	5	51-155/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	564	113	500	546	109	3	66-130/13
124-48-1	Dibromochloromethane	ND		500	497	99	500	497	99	0	76-125/11
106-93-4	1,2-Dibromoethane	ND		500	416	83	500	418	84	0	78-119/11
95-50-1	1,2-Dichlorobenzene	ND		500	518	104	500	513	103	1	77-123/11
541-73-1	1,3-Dichlorobenzene	ND		500	489	98	500	487	97	0	76-122/11
106-46-7	1,4-Dichlorobenzene	ND		500	511	102	500	509	102	0	76-122/11
75-71-8	Dichlorodifluoromethane	ND		500	409	82	500	432	86	5	31-159/16
75-34-3	1,1-Dichloroethane	ND		500	449	90	500	454	91	1	73-126/11
107-06-2	1,2-Dichloroethane	ND		500	429	86	500	436	87	2	72-131/11
75-35-4	1,1-Dichloroethene	ND		500	481	96	500	487	97	1	63-136/14
156-59-2	cis-1,2-Dichloroethene	25.6		500	493	93	500	502	95	2	60-136/11
156-60-5	trans-1,2-Dichloroethene	15.9		500	505	98	500	505	98	0	70-126/11
78-87-5	1,2-Dichloropropane	ND		500	479	96	500	487	97	2	78-124/10
10061-01-5	cis-1,3-Dichloropropene	ND		500	488	98	500	498	100	2	79-123/11
10061-02-6	trans-1,3-Dichloropropene	ND		500	453	91	500	456	91	1	77-123/11
123-91-1	1,4-Dioxane	ND		12500	13800	110	12500	13700	110	1	49-146/26
100-41-4	Ethylbenzene	ND		500	468	94	500	476	95	2	51-140/20
76-13-1	Freon 113	ND		500	454	91	500	495	99	9	60-192/14
591-78-6	2-Hexanone	ND		2000	1820	91	2000	1840	92	1	56-139/14
98-82-8	Isopropylbenzene	ND		500	475	95	500	485	97	2	75-129/11
79-20-9	Methyl Acetate	ND		500	491	98	500	468	94	5	55-131/15
108-87-2	Methylcyclohexane	ND		500	399	80	500	439	88	10	57-155/13

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC87593-2MS	L311764.D	10	05/08/19	DG	n/a	n/a	VL9062
JC87593-2MSD	L311765.D	10	05/08/19	DG	n/a	n/a	VL9062
JC87593-2 [a]	L311763.D	10	05/08/19	DG	n/a	n/a	VL9062

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC87667-1, JC87667-2, JC87667-3, JC87667-4, JC87667-5

CAS No.	Compound	JC87593-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		500	470	94	500	467	93	1	72-123/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2000	1930	97	2000	1940	97	1	66-136/13
75-09-2	Methylene chloride	ND		500	483	97	500	487	97	1	73-125/13
100-42-5	Styrene	ND		500	494	99	500	506	101	2	75-129/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	535	107	500	520	104	3	71-122/11
127-18-4	Tetrachloroethene	26.5		500	504	96	500	515	98	2	61-139/11
108-88-3	Toluene	ND		500	482	96	500	485	97	1	60-135/10
87-61-6	1,2,3-Trichlorobenzene	ND		500	510	102	500	511	102	0	70-138/13
120-82-1	1,2,4-Trichlorobenzene	ND		500	521	104	500	522	104	0	72-137/13
71-55-6	1,1,1-Trichloroethane	ND		500	466	93	500	478	96	3	74-138/12
79-00-5	1,1,2-Trichloroethane	ND		500	513	103	500	507	101	1	78-121/11
79-01-6	Trichloroethene	1650		500	2020	74	500	2070	84	2	62-141/10
75-69-4	Trichlorofluoromethane	ND		500	428	86	500	441	88	3	57-149/14
75-01-4	Vinyl chloride	ND		500	490	98	500	487	97	1	43-146/15
	m,p-Xylene	ND		1000	921	92	1000	943	94	2	50-144/20
95-47-6	o-Xylene	ND		500	475	95	500	485	97	2	63-134/10
1330-20-7	Xylene (total)	ND		1500	1400	93	1500	1430	95	2	56-139/20

CAS No.	Surrogate Recoveries	MS	MSD	JC87593-2	Limits
1868-53-7	Dibromofluoromethane	89%	89%	90%	80-120%
17060-07-0	1,2-Dichloroethane-D4	82%	84%	89%	81-124%
2037-26-5	Toluene-D8	92%	92%	99%	80-120%
460-00-4	4-Bromofluorobenzene	100%	98%	96%	80-120%

(a) Diluted due to high concentration of target compound.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample:	VL9011-BFB	**Injection Date:**	04/03/19
Lab File ID:	L310721.D	**Injection Time:**	17:18
Instrument ID:	GCMSL		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17736	20.9		Pass
75	30.0 - 60.0% of mass 95	41733	49.1		Pass
95	Base peak, 100% relative abundance	84957	100.0		Pass
96	5.0 - 9.0% of mass 95	5939	6.99		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	72739	85.6		Pass
175	5.0 - 9.0% of mass 174	5566	6.55	(7.65) [a]	Pass
176	95.0 - 101.0% of mass 174	70429	82.9	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	4796	5.65	(6.81) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9011-IC9011	L310722.D	04/03/19	18:05	00:47	Initial cal 0.2
VL9011-IC9011	L310723.D	04/03/19	18:32	01:14	Initial cal 0.5
VL9011-IC9011	L310724.D	04/03/19	18:59	01:41	Initial cal 1
VL9011-IC9011	L310725.D	04/03/19	19:26	02:08	Initial cal 2
VL9011-IC9011	L310726.D	04/03/19	19:53	02:35	Initial cal 4
VL9011-IC9011	L310727.D	04/03/19	20:20	03:02	Initial cal 8
VL9011-IC9011	L310728.D	04/03/19	20:47	03:29	Initial cal 20
VL9011-ICC9011	L310729.D	04/03/19	21:15	03:57	Initial cal 50
VL9011-IC9011	L310730.D	04/03/19	21:42	04:24	Initial cal 100
VL9011-IC9011	L310731.D	04/03/19	22:09	04:51	Initial cal 200
VL9011-ICV9011	L310734.D	04/03/19	23:30	06:12	Initial cal verification 50
VL9011-ICV9011	L310735.D	04/03/19	23:57	06:39	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample:	VL9062-BFB	**Injection Date:**	05/08/19
Lab File ID:	L311758.D	**Injection Time:**	17:00
Instrument ID:	GCMSL		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	12054	16.8		Pass
75	30.0 - 60.0% of mass 95	33680	46.9		Pass
95	Base peak, 100% relative abundance	71784	100.0		Pass
96	5.0 - 9.0% of mass 95	5055	7.04		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	63408	88.3		Pass
175	5.0 - 9.0% of mass 174	4943	6.89	(7.80) [a]	Pass
176	95.0 - 101.0% of mass 174	62195	86.6	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4115	5.73	(6.62) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9062-CC9011	L311758.D	05/08/19	17:00	00:00	Continuing cal 50
VL9062-BS	L311759.D	05/08/19	17:45	00:45	Blank Spike
VL9062-BSD	L311760.D	05/08/19	18:12	01:12	Blank Spike Duplicate
VL9062-MB	L311762.D	05/08/19	19:06	02:06	Method Blank
JC87593-2	L311763.D	05/08/19	19:49	02:49	(used for QC only; not part of job JC87667)
JC87593-2MS	L311764.D	05/08/19	20:16	03:16	Matrix Spike
JC87593-2MSD	L311765.D	05/08/19	20:43	03:43	Matrix Spike Duplicate
ZZZZZZ	L311767.D	05/08/19	21:37	04:37	(unrelated sample)
ZZZZZZ	L311768.D	05/08/19	22:04	05:04	(unrelated sample)
JC87667-4	L311769.D	05/08/19	22:31	05:31	TB-1
JC87667-5	L311770.D	05/08/19	22:58	05:58	FB-1
JC87667-1	L311771.D	05/08/19	23:25	06:25	SVE-MW-1
JC87667-2	L311772.D	05/08/19	23:52	06:52	SVE-MW-4
JC87667-3	L311773.D	05/09/19	00:20	07:20	SVE-MW-5
ZZZZZZ	L311774.D	05/09/19	00:47	07:47	(unrelated sample)
ZZZZZZ	L311775.D	05/09/19	01:14	08:14	(unrelated sample)
ZZZZZZ	L311776.D	05/09/19	01:41	08:41	(unrelated sample)
ZZZZZZ	L311777.D	05/09/19	02:08	09:08	(unrelated sample)
ZZZZZZ	L311778.D	05/09/19	02:35	09:35	(unrelated sample)
ZZZZZZ	L311779.D	05/09/19	03:02	10:02	(unrelated sample)
ZZZZZZ	L311780.D	05/09/19	03:29	10:29	(unrelated sample)
ZZZZZZ	L311781.D	05/09/19	03:56	10:56	(unrelated sample)

Internal Standard Area Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Check Std:	VL9062-CC9011	**Injection Date:**	05/08/19
Lab File ID:	L311758.D	**Injection Time:**	17:00
Instrument ID:	GCMSL	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	152795	3.07	215134	4.29	296241	4.85	262434	7.24	113369	9.43
Upper Limit [a]	305590	3.57	430268	4.79	592482	5.35	524868	7.74	226738	9.93
Lower Limit [b]	76398	2.57	107567	3.79	148121	4.35	131217	6.74	56685	8.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VL9062-BS	139985	3.07	206588	4.29	283876	4.85	254361	7.24	109804	9.43
VL9062-BSD	144204	3.07	214478	4.29	292615	4.85	258724	7.24	111293	9.43
VL9062-MB	192528	3.06	277827	4.28	360046	4.85	302326	7.24	143989	9.43
JC87593-2	197021	3.06	283554	4.28	374010	4.85	307054	7.24	147894	9.43
JC87593-2MS	150622	3.07	217389	4.28	296974	4.85	260642	7.24	109209	9.43
JC87593-2MSD	145262	3.06	213551	4.28	288699	4.85	254734	7.24	110865	9.43
ZZZZZZ	195384	3.07	271039	4.29	358053	4.86	300137	7.24	143337	9.43
ZZZZZZ	188445	3.07	269763	4.28	355568	4.85	298376	7.24	140823	9.43
JC87667-4	182461	3.06	270099	4.28	355866	4.85	292450	7.24	137466	9.43
JC87667-5	185986	3.06	271497	4.28	357481	4.85	295645	7.24	139461	9.43
JC87667-1	188485	3.07	267939	4.28	354822	4.85	295794	7.24	143334	9.43
JC87667-2	195769	3.07	267474	4.29	359955	4.85	299144	7.24	143649	9.43
JC87667-3	193455	3.06	273866	4.28	366513	4.85	304364	7.24	143237	9.43
ZZZZZZ	186267	3.06	253479	4.28	345277	4.85	291455	7.24	140159	9.43
ZZZZZZ	189092	3.06	260262	4.28	355878	4.85	287041	7.24	140786	9.43
ZZZZZZ	187171	3.06	267025	4.28	354976	4.85	297524	7.24	141443	9.43
ZZZZZZ	190487	3.06	274982	4.28	363916	4.85	300754	7.24	140939	9.43
ZZZZZZ	187503	3.07	269964	4.29	357720	4.85	298016	7.24	137197	9.43
ZZZZZZ	194263	3.07	268920	4.29	358206	4.85	301327	7.24	139733	9.43
ZZZZZZ	170435	3.06	256907	4.28	345936	4.85	293568	7.24	138656	9.43
ZZZZZZ	185023	3.06	272556	4.28	357004	4.85	297006	7.24	139782	9.43

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC87667-1	L311771.D	89	89	101	94
JC87667-2	L311772.D	91	90	101	94
JC87667-3	L311773.D	91	88	101	95
JC87667-4	L311769.D	87	86	101	95
JC87667-5	L311770.D	88	89	101	96
JC87593-2MS	L311764.D	89	82	92	100
JC87593-2MSD	L311765.D	89	84	92	98
VL9062-BS	L311759.D	91	86	91	99
VL9062-BSD	L311760.D	88	84	92	99
VL9062-MB	L311762.D	88	89	99	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	81-124%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Initial Calibration Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample: VL9011-ICC9011
Lab FileID: L310729.D

Response Factor Report GCMSL

Method : C:\MSDCHEM\1\METHODS\ML9011.M (RTE Integrator)
Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Calibration Files
8 =L310727.D 0.5 =L310723.D 4 =L310726.D 50 =L310729.D
100 =L310730.D 1 =L310724.D 200 =L310731.D 20 =L310728.D
2 =L310725.D 0.2 =L310722.D = =

Compound	8	0.5	4	50	100	1	200	20	2	0.2	Avg	%RSD
1) I tert Butyl Alcohol-d9	ISTD											
2) 1,4-dioxane	0.098	0.096	0.099	0.097	0.112	0.100	0.103	0.093			0.100	5.70
3) ethanol	0.123	0.130	0.130	0.124	0.139	0.110	0.133	0.121			0.126	6.98
4) tertiary butyl alcohol	1.150	1.247	1.193	1.148	1.305	1.171	1.208	1.166			1.199	4.52
5) I pentafluorobenzene	ISTD											
6) chlorodifluoromethane	0.606	0.600	0.716	0.695	0.695	0.689	0.557				0.651	9.53
7) dichlorodifluoromethane	0.779	0.654	0.740	0.873	0.881	0.694	0.881	0.829	0.711	0.785	0.783	10.52
8) chloromethane	0.722	0.736	0.679	0.793	0.762	0.696	0.756	0.747	0.662		0.728	5.82
9) vinyl chloride	0.710	0.594	0.662	0.758	0.733	0.674	0.710	0.749	0.648	0.824	0.706	9.24
10) bromomethane	0.203	0.209	0.234	0.234	0.219	0.239	0.202				0.220	7.09
11) chloroethane	0.363	0.367	0.348	0.377	0.362	0.347	0.321	0.370	0.324	0.384	0.356	5.95
12) vinyl bromide	0.323	0.310	0.302	0.354	0.337	0.271	0.331	0.350	0.313		0.321	8.03
13) trichlorofluoromethane	0.764	0.700	0.740	0.815	0.787	0.706	0.727	0.805	0.727	0.701	0.747	5.77
14) ethyl ether	0.291	0.296	0.274	0.313	0.301	0.219	0.303	0.301	0.263		0.285	10.16
15) 2-chloropropane	0.858	0.868	0.872	0.912	0.850	0.818	0.807	0.895	0.815		0.855	4.24
16) acrolein	*This compound does not meet initial calibration criteria*											
	0.101	0.106	0.108	0.102	0.106	0.102	0.101				0.104	2.80
17) freon 113	0.335	0.330	0.345	0.355	0.331	0.307	0.331	0.358	0.332	0.362	0.339	4.87
18) 1,1-dichloroethene	0.425	0.463	0.414	0.444	0.411	0.398	0.414	0.444	0.393	0.458	0.426	5.76
19) acetone	0.066	0.073	0.068	0.068	0.062	0.065	0.064	0.066	0.069		0.067	4.71
20) acetonitrile	0.053	0.050	0.056	0.050	0.055	0.052	0.053	0.058			0.053	5.89
21) iodomethane	*This compound does not meet initial calibration criteria*											
	0.066	0.065	0.202	0.281	0.063	0.294	0.111	0.057			0.142	71.47
22) iso-butyl alcohol												

0.040 0.037 0.038 0.033 0.036 0.038 0.037 6.26

23) carbon disulfide
1.122 1.122 1.180 1.132 1.172 1.150 1.178 1.107 1.145 2.50

24) methylene chloride
0.432 0.431 0.421 0.456 0.441 0.427 0.442 0.456 0.431 0.437 2.84

25) methyl acetate
0.114 0.107 0.121 0.110 0.116 0.115 0.095 0.111 7.44

26) methyl tert butyl ether
1.398 1.297 1.388 1.474 1.380 1.333 1.324 1.452 1.383 1.426 1.385 4.04

27) trans-1,2-dichloroethene
0.439 0.382 0.419 0.449 0.425 0.425 0.420 0.447 0.425 0.426 4.66

28) hexane
0.634 0.694 0.647 0.703 0.682 0.599 0.675 0.683 0.624 0.660 5.39

29) di-isopropyl ether
1.582 1.609 1.619 1.653 1.534 1.559 1.453 1.691 1.590 1.719 1.601 4.83

30) ethyl tert-butyl ether
1.503 1.461 1.506 1.570 1.490 1.478 1.456 1.579 1.467 1.705 1.521 5.08

31) 2-butanone
0.085 0.084 0.083 0.092 0.084 0.082 0.085 0.086 0.081 0.084 3.83

32) 1,1-dichloroethane
0.815 0.810 0.818 0.853 0.792 0.796 0.765 0.858 0.802 0.842 0.815 3.57

33) chloroprene
0.724 0.713 0.736 0.774 0.734 0.672 0.721 0.777 0.695 0.862 0.741 7.21

34) acrylonitrile
0.259 0.239 0.282 0.263 0.274 0.264 0.263 5.56

35) vinyl acetate
0.116 0.113 0.127 0.122 0.131 0.122 0.122 5.43

36) ethyl acetate
0.111 0.111 0.127 0.114 0.120 0.106 0.115 6.51

37) 2,2-dichloropropane
0.636 0.664 0.667 0.648 0.604 0.636 0.598 0.670 0.651 0.642 4.07

38) cis-1,2-dichloroethene
0.463 0.455 0.474 0.481 0.454 0.481 0.445 0.489 0.467 0.468 3.12

39) propionitrile
0.110 0.108 0.105 0.108 0.094 0.109 0.092 0.107 0.105 0.104 6.39

40) methyl acrylate
0.098 0.098 0.098 0.090 0.094 0.096 0.086 0.094 4.88

41) bromochloromethane
0.218 0.216 0.215 0.216 0.202 0.193 0.195 0.221 0.227 0.212 5.66

42) tetrahydrofuran
0.099 0.101 0.098 0.093 0.094 0.094 0.100 0.097 3.37

43) chloroform
0.744 0.889 0.764 0.782 0.733 0.819 0.727 0.773 0.770 0.778 6.47

44) dibromofluoromethane (s)
0.409 0.389 0.403 0.430 0.429 0.389 0.436 0.416 0.403 0.393 0.410 4.26

45) methacrylonitrile
0.254 0.239 0.258 0.279 0.261 0.253 0.269 0.261 0.270 0.260 4.44

46) 1,1,1-trichloroethane
0.618 0.609 0.594 0.666 0.647 0.602 0.659 0.648 0.590 0.619 0.625 4.45

47) cyclohexane
0.581 0.545 0.599 0.594 0.578 0.631 0.574 0.592 0.576 0.586 3.94

48) 1,1-dichloropropene
0.591 0.563 0.595 0.621 0.590 0.540 0.584 0.621 0.562 0.585 4.63

49) carbon tetrachloride
0.502 0.554 0.519 0.538 0.513 0.505 0.516 0.541 0.485 0.579 0.525 5.33

50) isopropyl acetate
0.127 0.120 0.137 0.131 0.135 0.130 0.119 0.128 5.52

51) tert amyl alcohol
0.036 0.032 0.035 0.031 0.029 0.030 0.033 0.033 0.032 7.71

52) I 1,4-difluorobenzene ----------ISTD----------
53) 1,2-dichloroethane-d4 (s)
0.340 0.342 0.338 0.321 0.320 0.332 0.312 0.340 0.349 0.345 0.334 3.67
54) tert-amyl methyl ether
0.954 1.005 0.966 0.918 0.853 0.979 0.810 0.948 0.958 1.041 0.943 7.24
55) 2,2,4-trimethylpentane
0.760 0.861 0.805 0.731 0.690 0.759 0.680 0.772 0.771 0.948 0.778 10.22
56) n-butyl alcohol
0.017 0.016 0.016 0.017 0.015 0.016 0.015 0.016 0.016 0.016 4.37
57) benzene
1.187 1.262 1.218 1.157 1.069 1.179 1.000 1.202 1.180 1.582 1.204 12.70
58) heptane
0.173 0.163 0.190 0.180 0.173 0.167 0.177 0.182 0.166 0.174 4.97
59) 1,2-dichloroethane
0.421 0.426 0.403 0.378 0.500 0.368 0.415 0.464 0.422 10.28
60) trichloroethene
0.285 0.304 0.309 0.308 0.297 0.315 0.292 0.308 0.286 0.301 3.57
61) ethyl acrylate
0.538 0.537 0.542 0.569 0.526 0.491 0.506 0.553 0.536 0.533 4.35
62) 2-nitropropane
0.122 0.108 0.131 0.136 0.135 0.129 0.127 8.11
63) 2-chloroethyl vinyl ether
0.257 0.257 0.260 0.248 0.224 0.261 0.205 0.255 0.252 0.248 0.247 7.32
64) methyl methacrylate
0.104 0.099 0.109 0.102 0.098 0.107 0.100 0.103 3.86
65) 1,2-dichloropropane
0.309 0.329 0.333 0.319 0.299 0.314 0.287 0.327 0.310 0.292 0.312 5.00
66) methylcyclohexane
0.453 0.614 0.472 0.461 0.434 0.498 0.427 0.471 0.469 0.478 11.60
67) dibromomethane
0.187 0.164 0.197 0.189 0.179 0.213 0.179 0.192 0.186 0.187 7.11
68) bromodichloromethane
0.384 0.401 0.391 0.409 0.398 0.376 0.395 0.405 0.381 0.438 0.398 4.40
69) cis-1,3-dichloropropene
0.484 0.527 0.504 0.515 0.491 0.517 0.480 0.501 0.504 0.502 3.10
70) epichlorohydrin
0.052 0.049 0.054 0.048 0.046 0.049 0.050 0.049 0.050 4.65
71) 4-methyl-2-pentanone
0.184 0.185 0.186 0.185 0.164 0.181 0.155 0.185 0.185 0.186 0.180 6.11
72) 3-methyl-1-butanol
0.016 0.014 0.015 0.013 0.013 0.013 0.015 0.014 0.014 7.79

73) I chlorobenzene-d5 ----------ISTD----------
74) toluene-d8 (s)
1.362 1.400 1.366 1.291 1.260 1.408 1.271 1.316 1.381 1.391 1.345 4.12
75) toluene
0.846 0.876 0.870 0.818 0.759 0.904 0.742 0.850 0.862 1.005 0.853 8.65
76) trans-1,3-dichloropropene
0.527 0.554 0.537 0.536 0.511 0.544 0.505 0.540 0.527 0.531 2.93
77) ethyl methacrylate
0.542 0.569 0.554 0.564 0.520 0.586 0.501 0.572 0.540 0.534 0.548 4.74
78) 1,1,2-trichloroethane
0.286 0.298 0.293 0.284 0.266 0.264 0.265 0.288 0.279 0.291 0.281 4.45
79) 2-hexanone
0.226 0.225 0.224 0.212 0.182 0.218 0.173 0.218 0.214 0.257 0.215 10.93
80) tetrachloroethene
0.369 0.401 0.377 0.359 0.334 0.391 0.330 0.369 0.369 0.425 0.372 7.69
81) 1,3-dichloropropane
0.582 0.653 0.607 0.540 0.504 0.574 0.485 0.569 0.556 0.563 9.01
82) butyl acetate

```
      0.346 0.377 0.357 0.347 0.310 0.374 0.309 0.347 0.353        0.347    6.88
 83)  dibromochloromethane
      0.338 0.347 0.349 0.337 0.327 0.343 0.321 0.338 0.326 0.361  0.339    3.54
 84)  1,2-dibromoethane
      0.450 0.458 0.459 0.433 0.413 0.474 0.409 0.444 0.459 0.526  0.452    7.32
 85)  n-butyl ether
      1.401 1.445 1.407 1.416 1.277 1.398 1.187 1.443 1.370        1.371    6.22
 86)  chlorobenzene
      0.876 0.977 0.900 0.870 0.812 0.949 0.786 0.885 0.904 1.156  0.912   11.28
 87)  1,1,1,2-tetrachloroethane
      0.299 0.282 0.306 0.288 0.266 0.329 0.254 0.301 0.302        0.292    7.65
 88)  ethylbenzene
      1.551 1.704 1.605 1.441 1.284 1.580 1.175 1.549 1.585        1.497   11.24
 89)  m,p-xylene
      0.585 0.625 0.590 0.550 0.498 0.618 0.469 0.582 0.566 0.726  0.581   12.16
 90)  o-xylene
      0.573 0.659 0.588 0.558 0.506 0.569 0.485 0.579 0.586 0.637  0.574    9.03
 91)  butyl acrylate
      0.857 0.867 0.844 0.907 0.833 0.808 0.801 0.893 0.816 0.805  0.843    4.45
 92)  styrene
      0.962 0.988 1.005 0.918 0.818 0.945 0.766 0.974 0.949        0.925    8.72
 93)  bromoform
      0.235 0.232 0.239 0.241 0.230 0.249 0.226 0.246 0.226        0.236    3.56
 94)  isopropylbenzene
      1.434 1.585 1.480 1.386 1.249 1.502 1.158 1.465 1.422        1.409    9.30
 95)  cis-1,4-dichloro-2-butene
      0.178       0.177 0.184 0.167 0.170 0.166 0.185 0.170        0.175    4.21

 96) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 97)  4-bromofluorobenzene (s)
      1.039 1.023 1.031 1.082 1.099 1.030 1.116 1.058 1.033 1.031  1.054    3.16
 98)  bromobenzene
      0.801 0.820 0.828 0.851 0.816 0.828 0.805 0.842 0.794        0.821    2.31
 99)  1,1,2,2-tetrachloroethane
      1.089 1.004 1.088 1.169 1.117 1.083 1.143 1.128 0.998 1.049  1.087    5.18
100)  trans-1,4-dichloro-2-butene
      0.318       0.302 0.341 0.323 0.339 0.327 0.339 0.293        0.323    5.47
101)  1,2,3-trichloropropane
      0.316 0.314 0.310 0.316 0.293 0.319 0.299 0.320 0.326        0.313    3.34
102)  n-propylbenzene
      3.572 3.640 3.658 3.645 3.364 3.589 3.215 3.729 3.471 4.310  3.619    7.95
103)  2-chlorotoluene
      0.744 0.763 0.739 0.756 0.721 0.755 0.730 0.754 0.722        0.743    2.09
104)  4-chlorotoluene
      0.732 0.652 0.758 0.739 0.698 0.716 0.696 0.749 0.708        0.716    4.55
105)  1,3,5-trimethylbenzene
      2.400 2.383 2.380 2.503 2.327 2.368 2.264 2.508 2.314 2.816  2.426    6.46
106)  tert-butylbenzene
      2.041 2.108 2.056 2.148 2.022 2.098 2.000 2.132 1.916 2.512  2.103    7.58
107)  1,2,4-trimethylbenzene
      2.465 2.536 2.461 2.505 2.336 2.445 2.245 2.539 2.263 2.705  2.450    5.66
108)  sec-butylbenzene
      2.911 2.975 2.839 2.989 2.793 2.931 2.730 3.012 2.769 3.616  2.957    8.50
109)  1,3-dichlorobenzene
      1.409 1.530 1.435 1.445 1.381 1.433 1.356 1.458 1.370 1.839  1.466    9.58
110)  p-isopropyltoluene
      2.334 2.488 2.370 2.389 2.212 2.381 2.127 2.437 2.215 2.786  2.374    7.71
111)  1,4-dichlorobenzene
      1.324 1.387 1.399 1.370 1.329 1.417 1.321 1.405 1.295        1.361    3.25
112)  1,2-dichlorobenzene
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Initial Calibration Summary

Job Number: JC87667 **Sample:** VL9011-ICC9011
Account: FLSNYNY Fleming-Lee Shue, Inc. **Lab FileID:** L310729.D
Project: 388 Bridge Street, Brooklyn, NY

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       1.343 1.399 1.345 1.362 1.281 1.356 1.266 1.376 1.307        1.337    3.29
113)  n-butylbenzene
       1.091 1.100 1.049 1.229 1.179 1.106 1.218 1.184 1.020 1.471  1.165   11.05
114)  1,2-dibromo-3-chloropropane
       0.258       0.237 0.303 0.294             0.271 0.210        0.262   13.38
115)  1,3,5-trichlorobenzene
       0.915 0.941 0.939 1.002 0.987 0.947 1.010 0.975 0.887 1.154  0.976    7.55
116)  1,2,4-trichlorobenzene
       0.831 0.991 0.801 0.934 0.939 0.923 0.961 0.897 0.767        0.894    8.58
117)  hexachlorobutadiene
       0.342 0.337 0.343 0.367 0.359 0.344 0.383 0.358 0.321        0.350    5.21
118)  naphthalene
       2.710 2.616 2.536 2.966 2.793 2.460 2.767 2.857 2.416        2.680    6.94
119)  1,2,3-trichlorobenzene
       0.789 0.817 0.809 0.857 0.824 0.890 0.855 0.823 0.749        0.824    4.98
120)  hexachloroethane
       0.374 0.371 0.379 0.437 0.440 0.394 0.469 0.415 0.366        0.405    9.15
121)  benzyl chloride
      *This compound does not meet initial calibration criteria*
       1.746 1.789 1.663 2.000 1.919 1.777 1.982 1.883 1.639 2.113  1.851    8.33
122)  2-ethylhexyl acrylate
       0.417             0.576 0.622       0.707 0.508              0.566   19.50
123)  2-methylnaphthalene
       1.036       0.985 1.411 1.419       1.539 1.203              1.266   17.82
124)  bis(chloromethyl)ether
                                                                    0.000   -1.00
125)  ethylenimine
                                                                    0.000   -1.00
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           ML9011.M          Thu Apr 04 11:26:04 2019   1
```

Initial Calibration Verification

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample: VL9011-ICV9011
Lab FileID: L310734.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL9011\L310734.D Vial: 14
Acq On : 3 Apr 2019 11:30 pm Operator: juntaep
Sample : icv9011-50 Inst : GCMSL
Misc : MS33381,VL9011,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\ML9011.M (RTE Integrator)
Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Apr 04 11:19:15 2019
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert Butyl Alcohol-d9	1.000	1.000	0.0	95	0.00	3.06
2		1,4-dioxane	0.100	0.101	-1.0	98	0.00	5.28
3		ethanol	0.126	0.140	-11.1	103	0.00	2.49
4	M	tertiary butyl alcohol	1.199	1.234	-2.9	99	0.00	3.12
5	I	pentafluorobenzene	1.000	1.000	0.0	96	0.00	4.27
6		chlorodifluoromethane	0.651	0.839	-28.9	113	0.00	1.65
7		dichlorodifluoromethane	0.783	0.909	-16.1	100	0.00	1.63
8		chloromethane	0.728	0.853	-17.2	103	0.00	1.79
9		vinyl chloride	0.706	0.786	-11.3	99	0.00	1.88
10		bromomethane	0.220	0.279	-26.8	115	0.00	2.13
11		chloroethane	0.356	0.406	-14.0	103	0.00	2.21
12		vinyl bromide	0.321	0.383	-19.3	104	0.00	2.35
13		trichlorofluoromethane	0.747	0.858	-14.9	101	0.00	2.39
14		ethyl ether	0.285	0.330	-15.8	101	0.00	2.58
15		2-chloropropane	0.855	1.018	-19.1	107	0.00	2.66
16		acrolein	0.104	0.154	-48.1#	136	0.00	2.67
17		freon 113	0.339	0.418	-23.3	113	0.00	2.75
18		1,1-dichloroethene	0.426	0.443	-4.0	96	0.00	2.75
19		acetone	0.067	0.070	-4.5	99	0.00	2.77
20		acetonitrile		----------NA----------				
21		iodomethane	0.142	0.190	-33.8#	90	0.00	2.87
22		iso-butyl alcohol	0.037	0.040	-8.1	100	0.00	4.43
23		carbon disulfide	1.145	1.383	-20.8	112	0.00	2.93
24		methylene chloride	0.437	0.464	-6.2	97	0.00	3.08
25		methyl acetate	0.111	0.126	-13.5	100	0.00	2.97
26		methyl tert butyl ether	1.385	1.457	-5.2	95	0.00	3.25
27		trans-1,2-dichloroethene	0.426	0.457	-7.3	98	0.00	3.27
28		hexane	0.660	0.745	-12.9	102	0.00	3.44
29		di-isopropyl ether	1.601	1.675	-4.6	97	0.00	3.56
30		ethyl tert-butyl ether	1.521	1.589	-4.5	97	0.00	3.80
31		2-butanone	0.084	0.095	-13.1	99	0.00	3.92
32	M	1,1-dichloroethane	0.815	0.897	-10.1	101	0.00	3.56
33		chloroprene	0.741	0.828	-11.7	103	0.00	3.61
34		acrylonitrile	0.263	0.317	-20.5	108	0.00	3.23
35		vinyl acetate	0.122	0.127	-4.1	95	0.00	3.54
36		ethyl acetate	0.115	0.129	-12.2	98	0.00	3.94
37		2,2-dichloropropane	0.642	0.647	-0.8	96	0.00	3.96
38		cis-1,2-dichloroethene	0.468	0.493	-5.3	98	0.00	3.95
39		propionitrile	0.104	0.112	-7.7	100	0.00	3.97
40		methyl acrylate	0.094	0.104	-10.6	102	0.00	3.98
41		bromochloromethane	0.212	0.232	-9.4	103	0.00	4.12

Initial Calibration Verification

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample: VL9011-ICV9011
Lab FileID: L310734.D

42		tetrahydrofuran	0.097	0.107	-10.3	105	0.00	4.12
43		chloroform	0.778	0.808	-3.9	99	0.00	4.17
44	S	dibromofluoromethane (s)	0.410	0.429	-4.6	96	0.00	4.28
45		methacrylonitrile	0.260	0.292	-12.3	100	0.00	4.08
46		1,1,1-trichloroethane	0.625	0.690	-10.4	99	0.00	4.31
47		cyclohexane	0.586	0.689	-17.6	111	0.00	4.37
48		1,1-dichloropropene	0.585	0.654	-11.8	101	0.00	4.42
49		carbon tetrachloride	0.525	0.569	-8.4	101	0.00	4.42
50		isopropyl acetate	0.128	0.136	-6.3	95	0.00	4.54
51		tert amyl alcohol	0.032	0.037	-15.6	102	0.00	4.52
52	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00	4.84
53	S	1,2-dichloroethane-d4 (s)	0.334	0.322	3.6	96	0.00	4.54
54		tert-amyl methyl ether	0.943	0.929	1.5	97	0.00	4.63
55		2,2,4-trimethylpentane	0.778	0.788	-1.3	103	0.00	4.63
56		n-butyl alcohol	0.016	0.018	-12.5	99	0.00	4.90
57	M	benzene	1.204	1.223	-1.6	101	0.00	4.57
58		heptane	0.174	0.215	-23.6	114	0.00	4.74
59		1,2-dichloroethane	0.422	0.421	0.2	100	0.00	4.59
60		trichloroethene	0.301	0.327	-8.6	102	0.00	5.04
61		ethyl acrylate	0.533	0.595	-11.6	100	0.00	5.05
62		2-nitropropane	0.127	0.151	-18.9	110	0.00	5.59
63		2-chloroethyl vinyl ether	0.247	0.268	-8.5	103	0.00	5.62
64		methyl methacrylate	0.103	0.110	-6.8	97	0.00	5.24
65		1,2-dichloropropane	0.312	0.323	-3.5	97	0.00	5.24
66		methylcyclohexane	0.478	0.468	2.1	97	0.00	5.23
67		dibromomethane	0.187	0.189	-1.1	96	0.00	5.31
68		bromodichloromethane	0.398	0.419	-5.3	98	0.00	5.42
69		cis-1,3-dichloropropene	0.502	0.532	-6.0	99	0.00	5.76
70		epichlorohydrin	0.050	0.056	-12.0	100	0.00	5.67
71		4-methyl-2-pentanone	0.180	0.192	-6.7	99	0.00	5.86
72		3-methyl-1-butanol	0.014	0.016	-14.3	100	0.00	5.88
73	I	chlorobenzene-d5	1.000	1.000	0.0	96	0.00	7.24
74	S	toluene-d8 (s)	1.345	1.272	5.4	95	0.00	5.99
75		toluene	0.853	0.843	1.2	99	0.00	6.05
76		trans-1,3-dichloropropene	0.531	0.563	-6.0	101	0.00	6.22
77		ethyl methacrylate	0.548	0.594	-8.4	101	0.00	6.24
78		1,1,2-trichloroethane	0.281	0.291	-3.6	99	0.00	6.39
79		2-hexanone	0.215	0.218	-1.4	99	0.00	6.55
80		tetrachloroethene		----------NA----------				
81		1,3-dichloropropane	0.563	0.563	0.0	100	0.00	6.53
82		butyl acetate	0.347	0.350	-0.9	97	0.00	6.64
83		dibromochloromethane	0.339	0.360	-6.2	103	0.00	6.72
84		1,2-dibromoethane	0.452	0.451	0.2	100	0.00	6.84
85		n-butyl ether	1.371	1.512	-10.3	103	0.00	7.31
86		chlorobenzene	0.912	0.915	-0.3	101	0.00	7.27
87		1,1,1,2-tetrachloroethane	0.292	0.301	-3.1	101	0.00	7.33
88		ethylbenzene	1.497	1.487	0.7	99	0.00	7.34
89		m,p-xylene	0.581	0.564	2.9	99	0.00	7.46
90		o-xylene	0.574	0.571	0.5	99	0.00	7.81
91		butyl acrylate	0.843	0.926	-9.8	98	0.00	7.73
92		styrene	0.925	0.949	-2.6	100	0.00	7.83
93		bromoform	0.236	0.272	-15.3	109	0.00	8.00
94		isopropylbenzene	1.409	1.434	-1.8	100	0.00	8.15
95		cis-1,4-dichloro-2-butene	0.175	0.189	-8.0	99	0.00	8.20
96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	9.43
97	S	4-bromofluorobenzene (s)	1.054	1.070	-1.5	96	0.00	8.32
98		bromobenzene	0.821	0.871	-6.1	99	0.00	8.46

Initial Calibration Verification

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample: VL9011-ICV9011
Lab FileID: L310734.D

99	1,1,2,2-tetrachloroethane	1.087	1.204	-10.8	100	0.00	8.43
100	trans-1,4-dichloro-2-bute	0.323	0.389	-20.4	111	0.00	8.47
101	1,2,3-trichloropropane	0.313	0.320	-2.2	98	0.00	8.50
102	n-propylbenzene	3.619	3.759	-3.9	100	0.00	8.54
103	2-chlorotoluene	0.743	0.767	-3.2	99	0.00	8.64
104	4-chlorotoluene	0.716	0.771	-7.7	101	0.00	8.75
105	1,3,5-trimethylbenzene	2.426	2.530	-4.3	98	0.00	8.71
106	tert-butylbenzene	2.103	2.285	-8.7	103	0.00	9.02
107	1,2,4-trimethylbenzene	2.450	2.540	-3.7	98	0.00	9.08
108	sec-butylbenzene	2.957	3.073	-3.9	100	0.00	9.23
109	1,3-dichlorobenzene	1.466	1.505	-2.7	101	0.00	9.36
110	p-isopropyltoluene	2.374	2.473	-4.2	100	0.00	9.38
111	1,4-dichlorobenzene	1.361	1.427	-4.8	101	0.00	9.45
112	1,2-dichlorobenzene	1.337	1.398	-4.6	100	0.00	9.81
113	n-butylbenzene	1.165	1.266	-8.7	100	0.00	9.78
114	1,2-dibromo-3-chloropropa	0.262	0.300	-14.5	96	0.00	10.58
115	1,3,5-trichlorobenzene	0.976	1.050	-7.6	102	0.00	10.76
116	1,2,4-trichlorobenzene	0.894	0.951	-6.4	99	0.00	11.39
117	hexachlorobutadiene	0.350	0.385	-10.0	102	0.00	11.53
118	naphthalene	2.680	3.025	-12.9	99	0.00	11.66
119	1,2,3-trichlorobenzene	0.824	0.866	-5.1	98	0.00	11.88
120	hexachloroethane	0.405	0.474	-17.0	105	0.00	10.07
121	benzyl chloride	1.851	2.492	-34.6#	121	0.00	9.56
122	2-ethylhexyl acrylate	0.566	0.670	-18.4	113	0.00	11.57
123	2-methylnaphthalene	1.266	1.427	-12.7	98	0.00	12.79
124	bis(chloromethyl)ether		----------NA----------				
125	ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L310729.D ML9011.M Thu Apr 04 11:25:39 2019 1

Initial Calibration Verification

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample: VL9011-ICV9011
Lab FileID: L310735.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL9011\L310735.D Vial: 15
Acq On : 3 Apr 2019 11:57 pm Operator: juntaep
Sample : icv9011-50 Inst : GCMSL
Misc : MS33381,VL9011,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\ML9011.M (RTE Integrator)
Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Apr 04 11:19:15 2019
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert Butyl Alcohol-d9	1.000	1.000	0.0	109	0.00	3.06
2		1,4-dioxane		----------	NA	----------		
3		ethanol		----------	NA	----------		
4	M	tertiary butyl alcohol		----------	NA	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	118	0.00	4.27
6		chlorodifluoromethane		----------	NA	----------		
7		dichlorodifluoromethane		----------	NA	----------		
8		chloromethane		----------	NA	----------		
9		vinyl chloride		----------	NA	----------		
10		bromomethane		----------	NA	----------		
11		chloroethane		----------	NA	----------		
12		vinyl bromide		----------	NA	----------		
13		trichlorofluoromethane		----------	NA	----------		
14		ethyl ether		----------	NA	----------		
15		2-chloropropane		----------	NA	----------		
16		acrolein		----------	NA	----------		
17		freon 113		----------	NA	----------		
18		1,1-dichloroethene		----------	NA	----------		
19		acetone	0.067	0.055	17.9	96	0.00	2.76
20		acetonitrile	0.053	0.055	-3.8	115	0.00	2.96
21		iodomethane		----------	NA	----------		
22		iso-butyl alcohol		----------	NA	----------		
23		carbon disulfide		----------	NA	----------		
24		methylene chloride		----------	NA	----------		
25		methyl acetate		----------	NA	----------		
26		methyl tert butyl ether		----------	NA	----------		
27		trans-1,2-dichloroethene		----------	NA	----------		
28		hexane		----------	NA	----------		
29		di-isopropyl ether		----------	NA	----------		
30		ethyl tert-butyl ether		----------	NA	----------		
31		2-butanone		----------	NA	----------		
32	M	1,1-dichloroethane		----------	NA	----------		
33		chloroprene		----------	NA	----------		
34		acrylonitrile		----------	NA	----------		
35		vinyl acetate		----------	NA	----------		
36		ethyl acetate		----------	NA	----------		
37		2,2-dichloropropane		----------	NA	----------		
38		cis-1,2-dichloroethene		----------	NA	----------		
39		propionitrile		----------	NA	----------		
40		methyl acrylate		----------	NA	----------		
41		bromochloromethane		----------	NA	----------		

Initial Calibration Verification

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample: VL9011-ICV9011
Lab FileID: L310735.D

42		tetrahydrofuran		----------NA----------				
43		chloroform		----------NA----------				
44	S	dibromofluoromethane (s)	0.410	0.425	-3.7	117	0.00	4.28
45		methacrylonitrile		----------NA----------				
46		1,1,1-trichloroethane		----------NA----------				
47		cyclohexane		----------NA----------				
48		1,1-dichloropropene		----------NA----------				
49		carbon tetrachloride		----------NA----------				
50		isopropyl acetate		----------NA----------				
51		tert amyl alcohol		----------NA----------				
52	I	1,4-difluorobenzene	1.000	1.000	0.0	113	0.00	4.84
53	S	1,2-dichloroethane-d4 (s)	0.334	0.346	-3.6	122	0.00	4.54
54		tert-amyl methyl ether		----------NA----------				
55		2,2,4-trimethylpentane		----------NA----------				
56		n-butyl alcohol		----------NA----------				
57	M	benzene		----------NA----------				
58		heptane		----------NA----------				
59		1,2-dichloroethane		----------NA----------				
60		trichloroethene		----------NA----------				
61		ethyl acrylate		----------NA----------				
62		2-nitropropane		----------NA----------				
63		2-chloroethyl vinyl ether		----------NA----------				
64		methyl methacrylate		----------NA----------				
65		1,2-dichloropropane		----------NA----------				
66		methylcyclohexane		----------NA----------				
67		dibromomethane		----------NA----------				
68		bromodichloromethane		----------NA----------				
69		cis-1,3-dichloropropene		----------NA----------				
70		epichlorohydrin		----------NA----------				
71		4-methyl-2-pentanone		----------NA----------				
72		3-methyl-1-butanol		----------NA----------				
73	I	chlorobenzene-d5	1.000	1.000	0.0	107	0.00	7.24
74	S	toluene-d8 (s)	1.345	1.413	-5.1	117	0.00	5.99
75		toluene		----------NA----------				
76		trans-1,3-dichloropropene		----------NA----------				
77		ethyl methacrylate		----------NA----------				
78		1,1,2-trichloroethane		----------NA----------				
79		2-hexanone		----------NA----------				
80		tetrachloroethene	0.372	0.346	7.0	103	0.00	6.48
81		1,3-dichloropropane		----------NA----------				
82		butyl acetate		----------NA----------				
83		dibromochloromethane		----------NA----------				
84		1,2-dibromoethane		----------NA----------				
85		n-butyl ether		----------NA----------				
86		chlorobenzene		----------NA----------				
87		1,1,1,2-tetrachloroethane		----------NA----------				
88		ethylbenzene		----------NA----------				
89		m,p-xylene		----------NA----------				
90		o-xylene		----------NA----------				
91		butyl acrylate		----------NA----------				
92		styrene		----------NA----------				
93		bromoform		----------NA----------				
94		isopropylbenzene		----------NA----------				
95		cis-1,4-dichloro-2-butene		----------NA----------				
96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	119	0.00	9.43
97	S	4-bromofluorobenzene (s)	1.054	1.029	2.4	114	0.00	8.32
98		bromobenzene		----------NA----------				

Initial Calibration Verification

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample: VL9011-ICV9011
Lab FileID: L310735.D

99	1,1,2,2-tetrachloroethane	----------NA----------	
100	trans-1,4-dichloro-2-bute	----------NA----------	
101	1,2,3-trichloropropane	----------NA----------	
102	n-propylbenzene	----------NA----------	
103	2-chlorotoluene	----------NA----------	
104	4-chlorotoluene	----------NA----------	
105	1,3,5-trimethylbenzene	----------NA----------	
106	tert-butylbenzene	----------NA----------	
107	1,2,4-trimethylbenzene	----------NA----------	
108	sec-butylbenzene	----------NA----------	
109	1,3-dichlorobenzene	----------NA----------	
110	p-isopropyltoluene	----------NA----------	
111	1,4-dichlorobenzene	----------NA----------	
112	1,2-dichlorobenzene	----------NA----------	
113	n-butylbenzene	----------NA----------	
114	1,2-dibromo-3-chloropropa	----------NA----------	
115	1,3,5-trichlorobenzene	----------NA----------	
116	1,2,4-trichlorobenzene	----------NA----------	
117	hexachlorobutadiene	----------NA----------	
118	naphthalene	----------NA----------	
119	1,2,3-trichlorobenzene	----------NA----------	
120	hexachloroethane	----------NA----------	
121	benzyl chloride	----------NA----------	
122	2-ethylhexyl acrylate	----------NA----------	
123	2-methylnaphthalene	----------NA----------	
124	bis(chloromethyl)ether	----------NA----------	
125	ethylenimine	----------NA----------	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L310729.D ML9011.M Thu Apr 04 11:21:14 2019 1

Continuing Calibration Summary

Job Number: JC87667
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Sample: VL9062-CC9011
Lab FileID: L311758.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ni...0-19\vl9062\l311758.d Vial: 52
Acq On : 8 May 2019 5:00 pm Operator: deving
Sample : cc9011-50 Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\ML9011.M (RTE Integrator)
Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Apr 04 11:19:15 2019
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert Butyl Alcohol-d9	1.000	1.000	0.0	88	0.00	3.07
2		1,4-dioxane	0.100	0.109	-9.0	96	0.01	5.29
3		ethanol	0.126	0.134	-6.3	91	0.00	2.49
4	M	tertiary butyl alcohol	1.199	1.216	-1.4	89	0.01	3.13
5	I	pentafluorobenzene	1.000	1.000	0.0	105	0.01	4.29
6		chlorodifluoromethane	0.651	0.620	4.8	91	0.00	1.65
7		dichlorodifluoromethane	0.783	0.737	5.9	89	0.00	1.64
8		chloromethane	0.728	0.730	-0.3	97	0.00	1.79
9		vinyl chloride	0.706	0.827	-17.1	115	0.00	1.88
10		bromomethane	0.220	0.240	-9.1	108	0.00	2.13
11		chloroethane	0.356	0.394	-10.7	110	0.00	2.21
12		vinyl bromide	0.321	0.449	-39.9#	133	0.00	2.35
13		trichlorofluoromethane	0.747	0.740	0.9	96	0.00	2.40
14		ethyl ether	0.285	0.293	-2.8	99	0.00	2.58
15		2-chloropropane	0.855	0.784	8.3	91	0.00	2.67
16		acrolein	0.104	0.113	-8.7	110	0.00	2.69
17		freon 113	0.339	0.334	1.5	99	0.00	2.75
18		1,1-dichloroethene	0.426	0.421	1.2	100	0.00	2.76
19		acetone	0.067	0.066	1.5	101	0.00	2.77
20		acetonitrile	0.053	0.046	13.2	87	0.00	2.97
21		iodomethane	0.142	0.163	-14.8	85	0.00	2.88
22		iso-butyl alcohol	0.037	0.031	16.2	86	0.01	4.44
23		carbon disulfide	1.145	1.162	-1.5	104	0.00	2.93
24		methylene chloride	0.437	0.444	-1.6	102	0.00	3.09
25		methyl acetate	0.111	0.109	1.8	94	0.00	2.98
26		methyl tert butyl ether	1.385	1.351	2.5	96	0.00	3.26
27		trans-1,2-dichloroethene	0.426	0.434	-1.9	102	0.00	3.27
28		hexane	0.660	0.586	11.2	88	0.00	3.45
29		di-isopropyl ether	1.601	1.459	8.9	93	0.00	3.57
30		ethyl tert-butyl ether	1.521	1.442	5.2	97	0.01	3.81
31		2-butanone	0.084	0.083	1.2	95	0.01	3.94
32	M	1,1-dichloroethane	0.815	0.761	6.6	94	0.01	3.58
33		chloroprene	0.741	0.683	7.8	93	0.01	3.63
34		acrylonitrile	0.263	0.250	4.9	93	0.00	3.24
35		vinyl acetate	0.122	0.120	1.6	99	0.02	3.55
36		ethyl acetate	0.115	0.095	17.4	79	0.01	3.95
37		2,2-dichloropropane	0.642	0.613	4.5	100	0.00	3.97
38		cis-1,2-dichloroethene	0.468	0.470	-0.4	103	0.01	3.96
39		propionitrile	0.104	0.092	11.5	90	0.01	3.99
40		methyl acrylate	0.094	0.092	2.1	99	0.01	3.99
41		bromochloromethane	0.212	0.213	-0.5	104	0.01	4.13

Continuing Calibration Summary

Job Number: JC87667 **Sample:** VL9062-CC9011
Account: FLSNYNY Fleming-Lee Shue, Inc. **Lab FileID:** L311758.D
Project: 388 Bridge Street, Brooklyn, NY

42		tetrahydrofuran	0.097	0.090	7.2	97	0.01	4.14
43		chloroform	0.778	0.716	8.0	96	0.01	4.18
44	S	dibromofluoromethane (s)	0.410	0.371	9.5	91	0.00	4.29
45		methacrylonitrile	0.260	0.258	0.8	97	0.01	4.09
46		1,1,1-trichloroethane	0.625	0.612	2.1	97	0.01	4.32
47		cyclohexane	0.586	0.573	2.2	101	0.01	4.38
48		1,1-dichloropropene	0.585	0.563	3.8	95	0.01	4.43
49		carbon tetrachloride	0.525	0.491	6.5	96	0.01	4.44
50		isopropyl acetate	0.128	0.130	-1.6	100	0.01	4.55
51		tert amyl alcohol	0.032	0.030	6.3	90	0.00	4.53
52	I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.01	4.85
53	S	1,2-dichloroethane-d4 (s)	0.334	0.287	14.1	87	0.01	4.55
54		tert-amyl methyl ether	0.943	0.917	2.8	97	0.01	4.64
55		2,2,4-trimethylpentane	0.778	0.692	11.1	92	0.01	4.64
56		n-butyl alcohol	0.016	0.016	0.0	89	0.01	4.91
57	M	benzene	1.204	1.197	0.6	101	0.00	4.58
58		heptane	0.174	0.160	8.0	87	0.01	4.75
59		1,2-dichloroethane	0.422	0.373	11.6	90	0.00	4.60
60		trichloroethene	0.301	0.315	-4.7	100	0.00	5.05
61		ethyl acrylate	0.533	0.537	-0.8	92	0.01	5.07
62		2-nitropropane	0.127	0.105	17.3	79	0.01	5.60
63		2-chloroethyl vinyl ether	0.247	0.238	3.6	94	0.01	5.63
64		methyl methacrylate	0.103	0.114	-10.7	102	0.01	5.25
65		1,2-dichloropropane	0.312	0.315	-1.0	96	0.00	5.25
66		methylcyclohexane	0.478	0.427	10.7	90	0.01	5.24
67		dibromomethane	0.187	0.193	-3.2	100	0.01	5.32
68		bromodichloromethane	0.398	0.409	-2.8	97	0.01	5.43
69		cis-1,3-dichloropropene	0.502	0.521	-3.8	99	0.00	5.77
70		epichlorohydrin	0.050	0.051	-2.0	92	0.00	5.68
71		4-methyl-2-pentanone	0.180	0.173	3.9	91	0.00	5.87
72		3-methyl-1-butanol	0.014	0.014	0.0	90	0.01	5.89
73	I	chlorobenzene-d5	1.000	1.000	0.0	98	0.00	7.24
74	S	toluene-d8 (s)	1.345	1.220	9.3	93	0.00	6.00
75		toluene	0.853	0.838	1.8	101	0.01	6.06
76		trans-1,3-dichloropropene	0.531	0.520	2.1	96	0.01	6.23
77		ethyl methacrylate	0.548	0.557	-1.6	97	0.00	6.24
78		1,1,2-trichloroethane	0.281	0.288	-2.5	100	0.00	6.40
79		2-hexanone	0.215	0.199	7.4	92	0.00	6.56
80		tetrachloroethene	0.372	0.378	-1.6	104	0.00	6.49
81		1,3-dichloropropane	0.563	0.534	5.2	97	0.00	6.54
82		butyl acetate	0.347	0.328	5.5	93	0.00	6.64
83		dibromochloromethane	0.339	0.347	-2.4	101	0.00	6.73
84		1,2-dibromoethane	0.452	0.388	14.2	88	0.00	6.85
85		n-butyl ether	1.371	1.361	0.7	95	0.00	7.31
86		chlorobenzene	0.912	0.897	1.6	101	0.00	7.27
87		1,1,1,2-tetrachloroethane	0.292	0.298	-2.1	102	0.00	7.34
88		ethylbenzene	1.497	1.451	3.1	99	0.00	7.35
89		m,p-xylene	0.581	0.559	3.8	100	0.00	7.46
90		o-xylene	0.574	0.569	0.9	100	0.00	7.82
91		butyl acrylate	0.843	0.864	-2.5	94	0.00	7.74
92		styrene	0.925	0.955	-3.2	102	0.00	7.83
93		bromoform	0.236	0.252	-6.8	103	0.00	8.01
94		isopropylbenzene	1.409	1.405	0.3	100	0.00	8.15
95		cis-1,4-dichloro-2-butene	0.175	0.173	1.1	93	0.00	8.20
96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	9.43
97	S	4-bromofluorobenzene (s)	1.054	1.037	1.6	97	0.00	8.32
98		bromobenzene	0.821	0.872	-6.2	104	0.00	8.47

Continuing Calibration Summary

Job Number: JC87667 **Sample:** VL9062-CC9011
Account: FLSNYNY Fleming-Lee Shue, Inc. **Lab FileID:** L311758.D
Project: 388 Bridge Street, Brooklyn, NY

99	1,1,2,2-tetrachloroethane	1.087	1.152	-6.0	100	0.00	8.43
100	trans-1,4-dichloro-2-bute	0.323	0.308	4.6	92	0.00	8.47
101	1,2,3-trichloropropane	0.313	0.305	2.6	98	0.00	8.50
102	n-propylbenzene	3.619	3.534	2.3	98	0.00	8.55
103	2-chlorotoluene	0.743	0.754	-1.5	101	0.00	8.64
104	4-chlorotoluene	0.716	0.746	-4.2	102	0.00	8.76
105	1,3,5-trimethylbenzene	2.426	2.479	-2.2	100	0.00	8.71
106	tert-butylbenzene	2.103	2.122	-0.9	100	0.00	9.02
107	1,2,4-trimethylbenzene	2.450	2.487	-1.5	101	0.00	9.08
108	sec-butylbenzene	2.957	2.937	0.7	99	0.00	9.24
109	1,3-dichlorobenzene	1.466	1.482	-1.1	104	0.00	9.36
110	p-isopropyltoluene	2.374	2.374	0.0	101	0.00	9.38
111	1,4-dichlorobenzene	1.361	1.403	-3.1	104	0.00	9.46
112	1,2-dichlorobenzene	1.337	1.416	-5.9	105	0.00	9.81
113	n-butylbenzene	1.165	1.221	-4.8	101	0.00	9.78
114	1,2-dibromo-3-chloropropa	0.262	0.296	-13.0	99	0.00	10.58
115	1,3,5-trichlorobenzene	0.976	1.028	-5.3	104	0.00	10.76
116	1,2,4-trichlorobenzene	0.894	0.965	-7.9	105	0.00	11.39
117	hexachlorobutadiene	0.350	0.373	-6.6	103	0.00	11.53
118	naphthalene	2.680	2.879	-7.4	98	0.00	11.66
119	1,2,3-trichlorobenzene	0.824	0.854	-3.6	101	0.00	11.88
120	hexachloroethane	0.405	0.428	-5.7	99	0.00	10.08
121	benzyl chloride	1.851	2.091	-13.0	106	0.00	9.56
122	2-ethylhexyl acrylate	0.566	0.643	-13.6	113	0.00	11.57
123	2-methylnaphthalene	1.266	1.325	-4.7	95	0.00	12.79
124	bis(chloromethyl)ether		----------NA----------				
125	ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L310729.D ML9011.M Fri May 10 01:26:04 2019

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311771.d
Acq On : 8 May 2019 11:25 pm
Operator : deving
Sample : JC87667-1 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 65 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:42:10 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

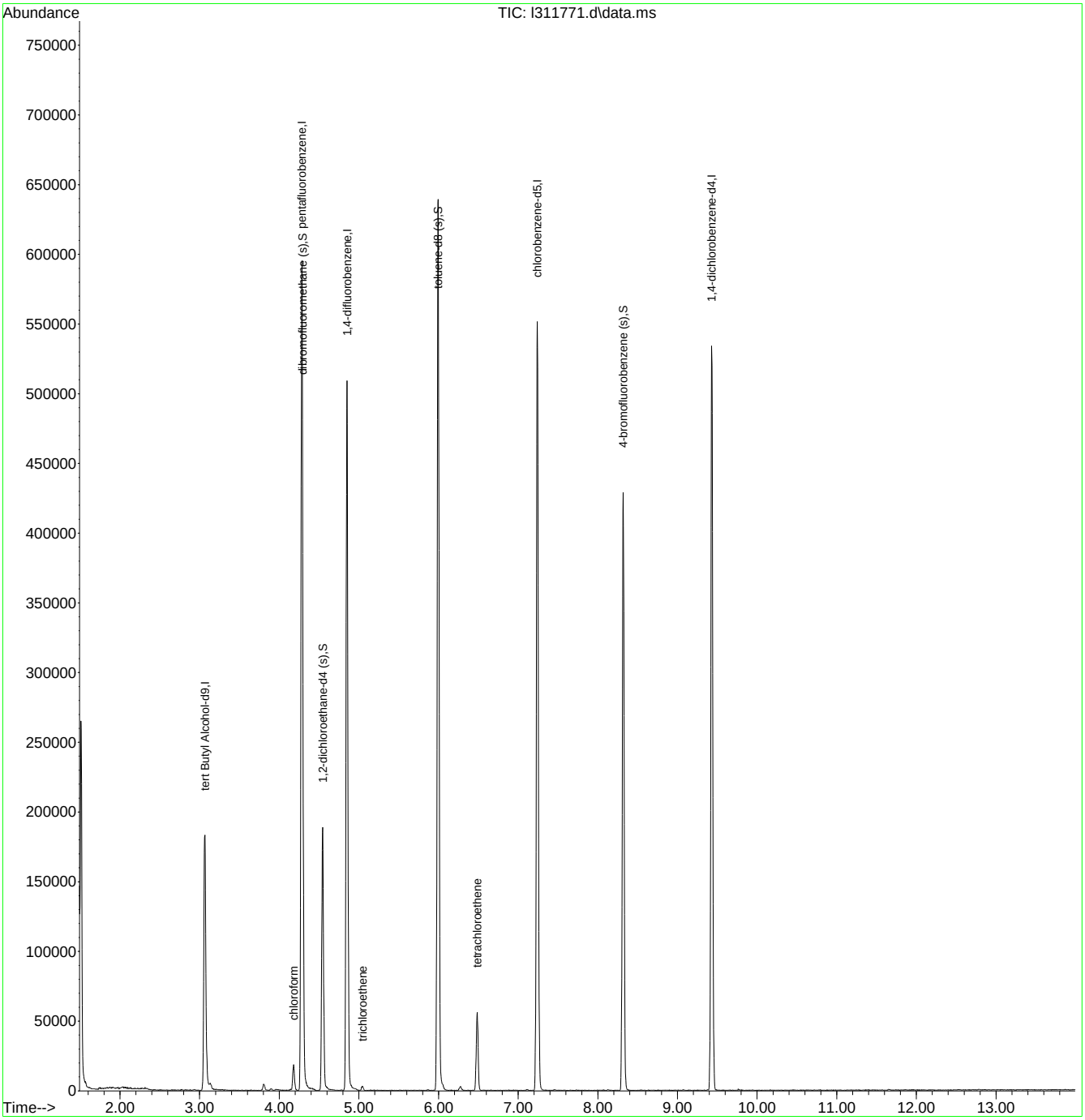
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.066	65	188485	500.00	ug/L	0.00
5) pentafluorobenzene	4.282	168	267939	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.850	114	354822	50.00	ug/L	0.00
73) chlorobenzene-d5	7.241	117	295794	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.429	152	143334	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.292	113	98138	44.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 89.38%			
53) 1,2-dichloroethane-d4 (s)	4.545	65	105426	44.47	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 88.94%			
74) toluene-d8 (s)	5.992	98	400973	50.41	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.82%			
97) 4-bromofluorobenzene (s)	8.319	95	141375	46.78	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.56%			
Target Compounds						Qvalue
43) chloroform	4.179	83	12308	2.95	ug/L	97
60) trichloroethene	5.046	95	1022	0.48	ug/L	88
80) tetrachloroethene	6.487	166	16025	7.27	ug/L	91

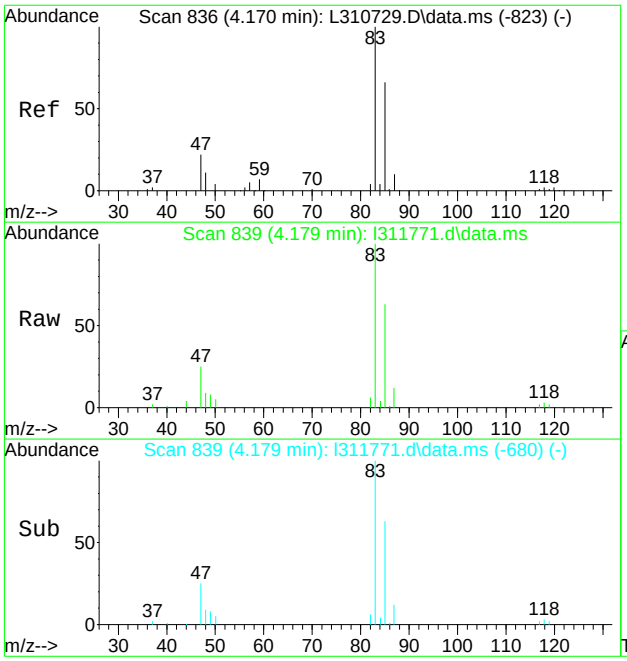
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311771.d
Acq On : 8 May 2019 11:25 pm
Operator : deving
Sample : JC87667-1 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 65 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:42:10 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

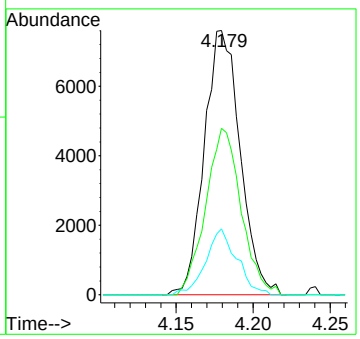


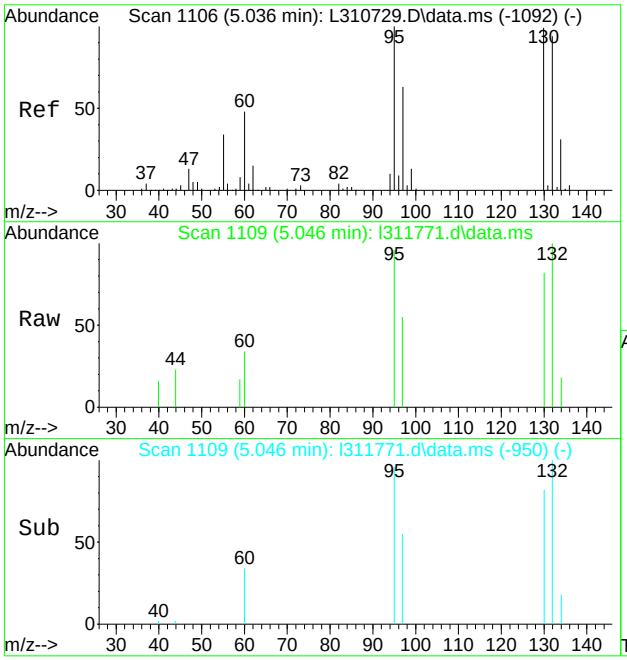


#43
chloroform
Concen: 2.95 ug/L
RT: 4.179 min Scan# 839
Delta R.T. 0.010 min
Lab File: l311771.d
Acq: 8 May 2019 11:25 pm

Tgt Ion: 83 Resp: 12308

Ion	Ratio	Lower	Upper
83	100		
85	63.0	35.6	95.6
47	24.9	0.0	54.7

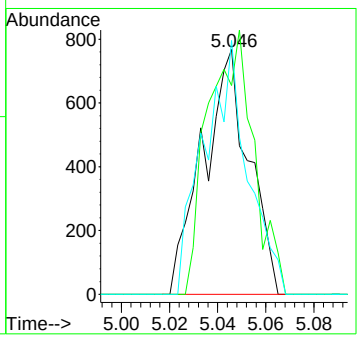


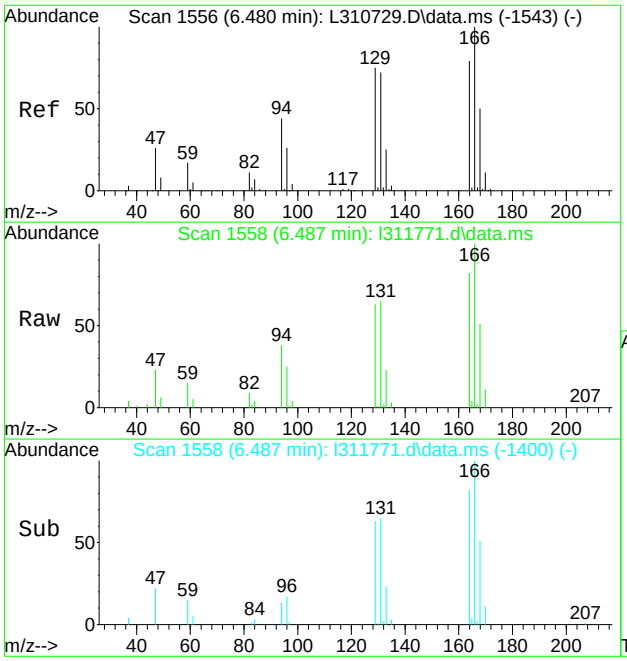


#60
trichloroethene
Concen: 0.48 ug/L
RT: 5.046 min Scan# 1109
Delta R.T. 0.010 min
Lab File: l311771.d
Acq: 8 May 2019 11:25 pm

Tgt Ion: 95 Resp: 1022

Ion	Ratio	Lower	Upper
95	100		
130	85.3	69.3	129.3
132	103.6	63.9	123.9

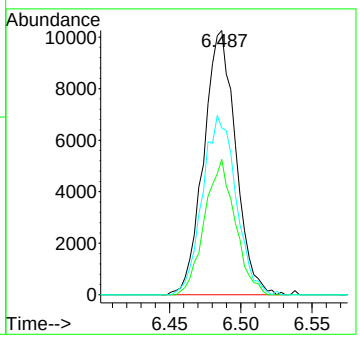




#80
tetrachloroethene
Concen: 7.27 ug/L
RT: 6.487 min Scan# 1558
Delta R.T. 0.006 min
Lab File: l311771.d
Acq: 8 May 2019 11:25 pm

Tgt Ion:166 Resp: 16025

Ion	Ratio	Lower	Upper
166	100		
168	51.2	19.5	79.5
129	63.1	44.8	104.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311772.d
Acq On : 8 May 2019 11:52 pm
Operator : deving
Sample : JC87667-2 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 66 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:42:51 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

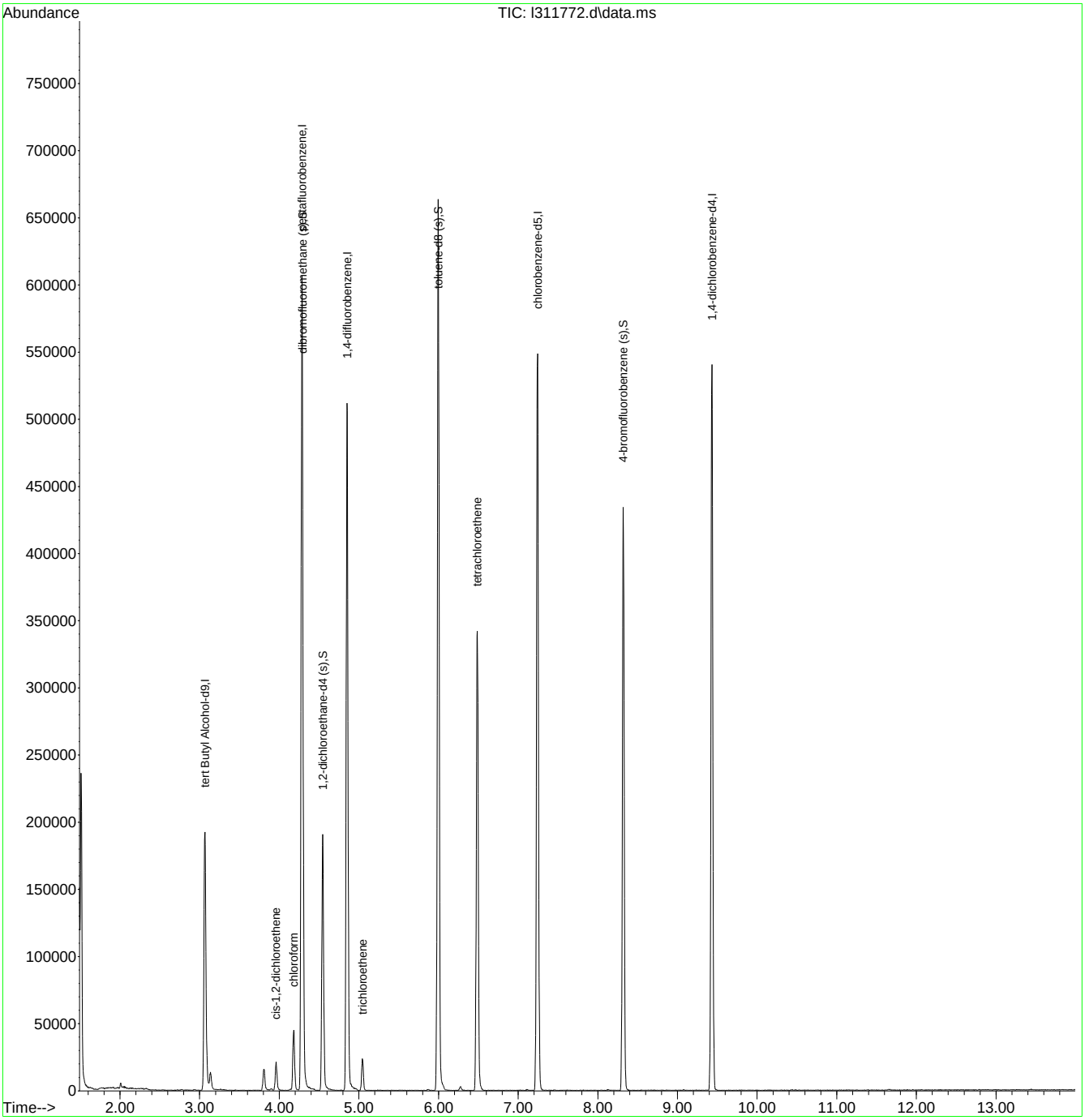
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.066	65	195769	500.00	ug/L	0.00
5) pentafluorobenzene	4.286	168	267474	50.00	ug/L	0.01
52) 1,4-difluorobenzene	4.850	114	359955	50.00	ug/L	0.00
73) chlorobenzene-d5	7.244	117	299144	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.433	152	143649	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.292	113	99501	45.39	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.78%			
53) 1,2-dichloroethane-d4 (s)	4.545	65	107679	44.78	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 89.56%			
74) toluene-d8 (s)	5.996	98	406799	50.57	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.14%			
97) 4-bromofluorobenzene (s)	8.319	95	142463	47.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.08%			
Target Compounds						Qvalue
38) cis-1,2-dichloroethene	3.958	96	7536	3.01	ug/L	86
43) chloroform	4.180	83	29676	7.13	ug/L	99
60) trichloroethene	5.046	95	7005	3.24	ug/L	99
80) tetrachloroethene	6.487	166	103648	46.51	ug/L	96

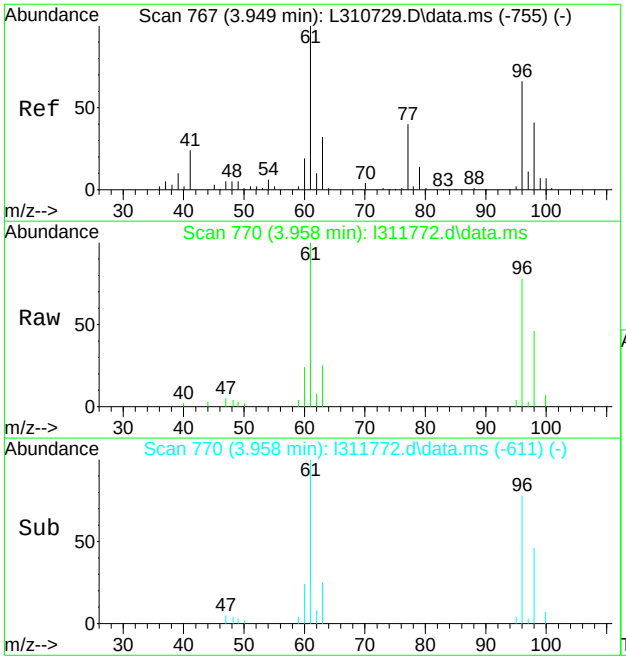
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311772.d
Acq On : 8 May 2019 11:52 pm
Operator : deving
Sample : JC87667-2 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 66 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:42:51 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

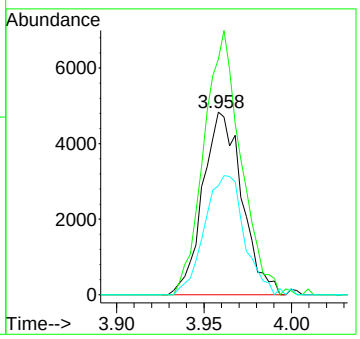


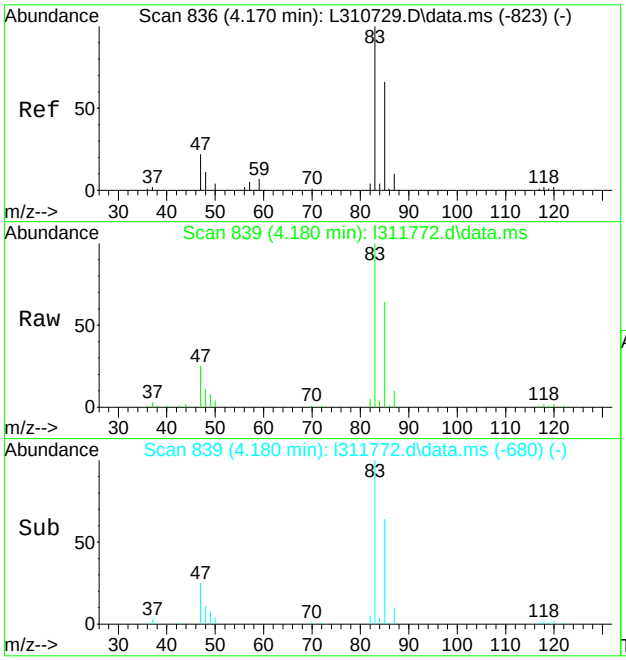


#38
cis-1,2-dichloroethene
Concen: 3.01 ug/L
RT: 3.958 min Scan# 770
Delta R.T. 0.010 min
Lab File: l311772.d
Acq: 8 May 2019 11:52 pm

Tgt Ion: 96 Resp: 7536

Ion	Ratio	Lower	Upper
96	100		
61	128.9	122.3	182.3
98	59.6	32.5	92.5

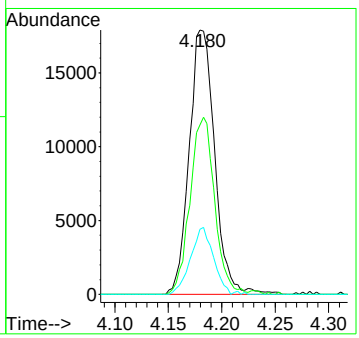


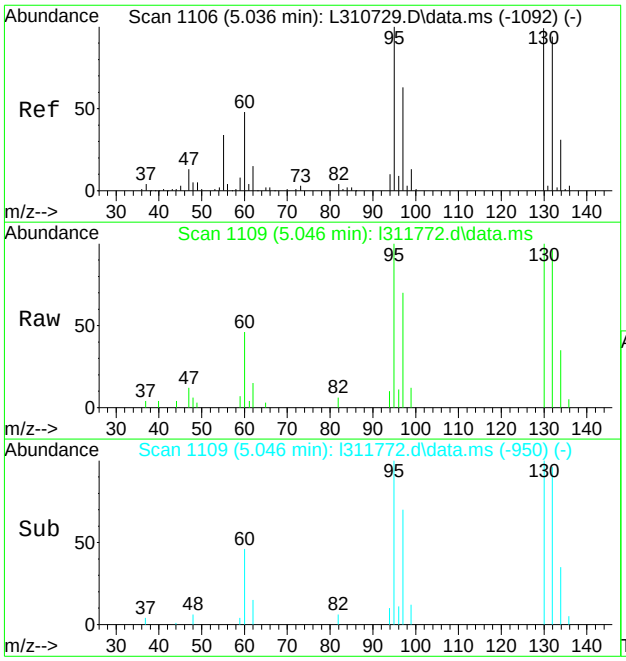


#43
chloroform
Concen: 7.13 ug/L
RT: 4.180 min Scan# 839
Delta R.T. 0.010 min
Lab File: l311772.d
Acq: 8 May 2019 11:52 pm

Tgt Ion: 83 Resp: 29676

Ion	Ratio	Lower	Upper
83	100		
85	64.1	35.6	95.6
47	24.6	0.0	54.7

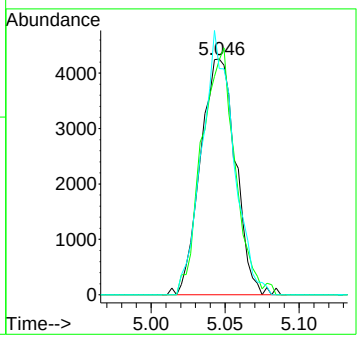


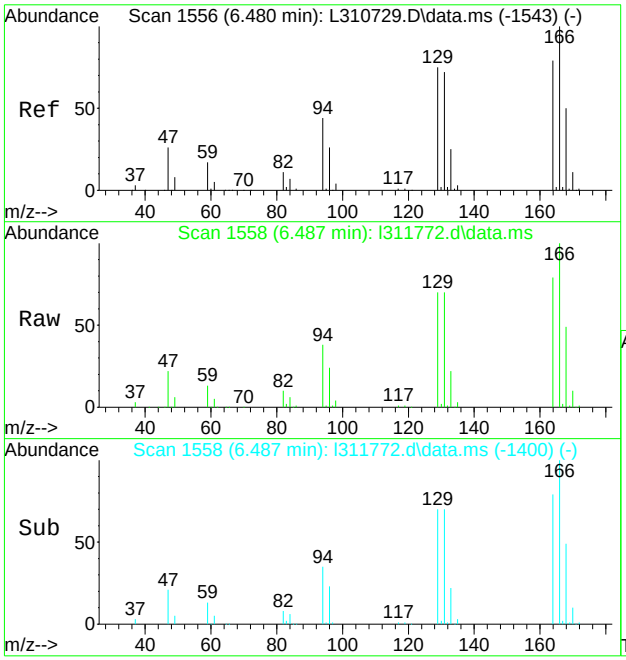


#60
trichloroethene
Concen: 3.24 ug/L
RT: 5.046 min Scan# 1109
Delta R.T. 0.010 min
Lab File: l311772.d
Acq: 8 May 2019 11:52 pm

Tgt Ion: 95 Resp: 7005

Ion	Ratio	Lower	Upper
95	100		
130	99.7	69.3	129.3
132	96.0	63.9	123.9

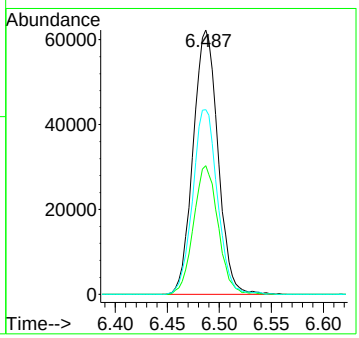




#80
tetrachloroethene
Concen: 46.51 ug/L
RT: 6.487 min Scan# 1558
Delta R.T. 0.006 min
Lab File: l311772.d
Acq: 8 May 2019 11:52 pm

Tgt Ion:166 Resp: 103648

Ion	Ratio	Lower	Upper
166	100		
168	48.6	19.5	79.5
129	69.8	44.8	104.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311773.d
Acq On : 9 May 2019 12:20 am
Operator : deving
Sample : JC87667-3 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 67 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:43:37 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

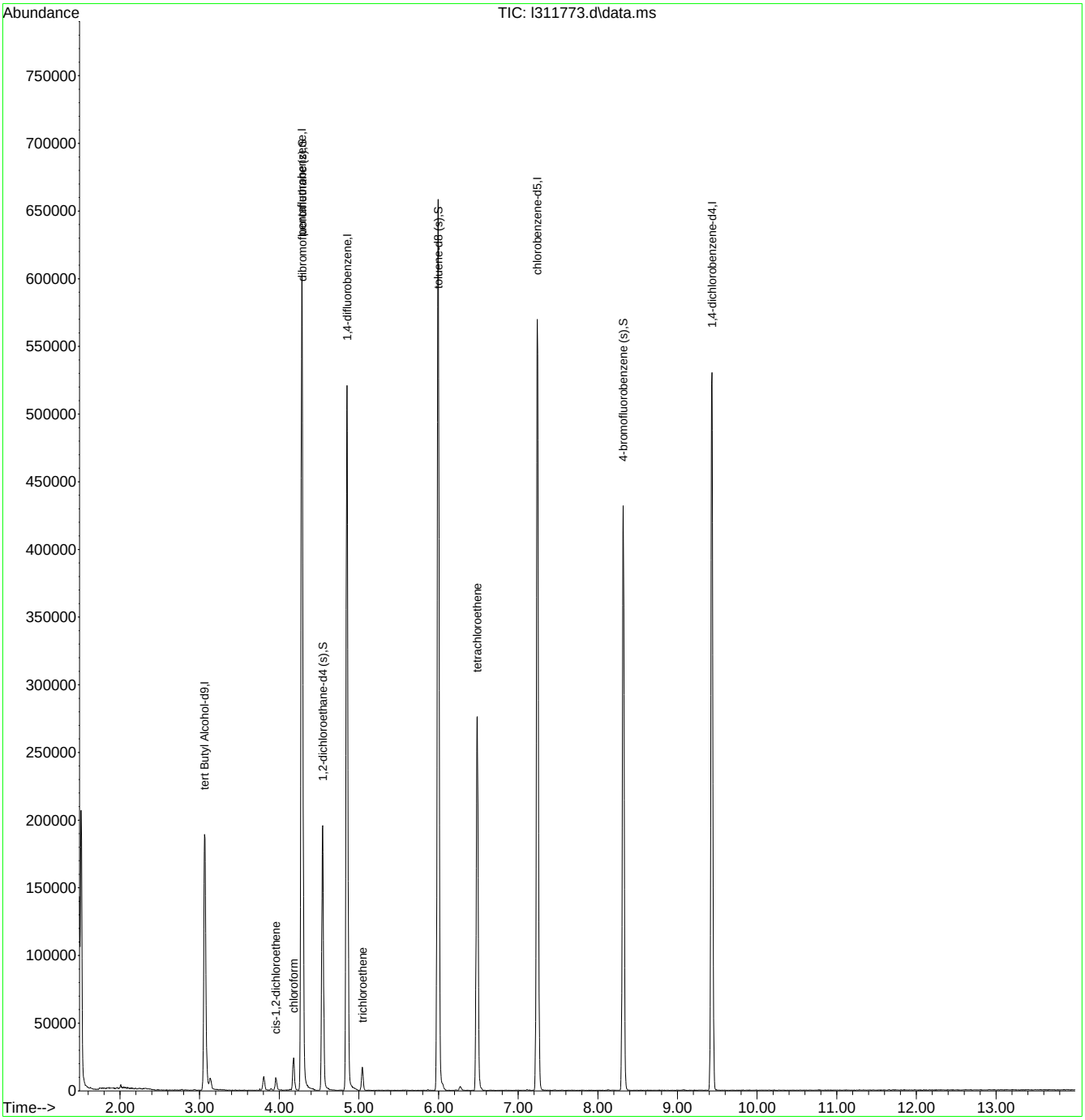
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.063	65	193455	500.00	ug/L	0.00
5) pentafluorobenzene	4.282	168	273866	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.850	114	366513	50.00	ug/L	0.00
73) chlorobenzene-d5	7.241	117	304364	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.433	152	143237	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.289	113	102242	45.55	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.10%			
53) 1,2-dichloroethane-d4 (s)	4.545	65	107912	44.07	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 88.14%			
74) toluene-d8 (s)	5.996	98	414948	50.70	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.40%			
97) 4-bromofluorobenzene (s)	8.319	95	144081	47.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.42%			
Target Compounds						Qvalue
38) cis-1,2-dichloroethene	3.958	96	3328	1.30	ug/L	81
43) chloroform	4.180	83	15986	3.75	ug/L	95
60) trichloroethene	5.046	95	4866	2.21	ug/L	93
80) tetrachloroethene	6.487	166	83090	36.65	ug/L	96

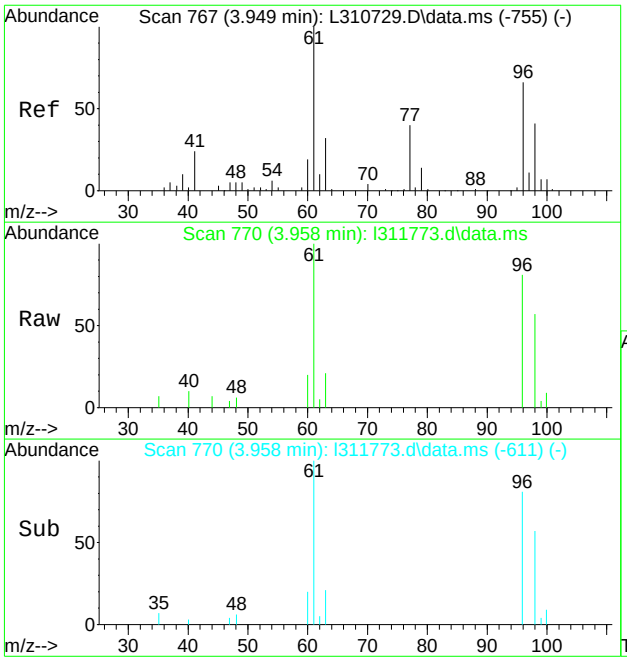
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311773.d
Acq On : 9 May 2019 12:20 am
Operator : deving
Sample : JC87667-3 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 67 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:43:37 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

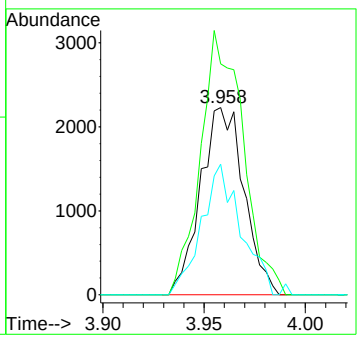


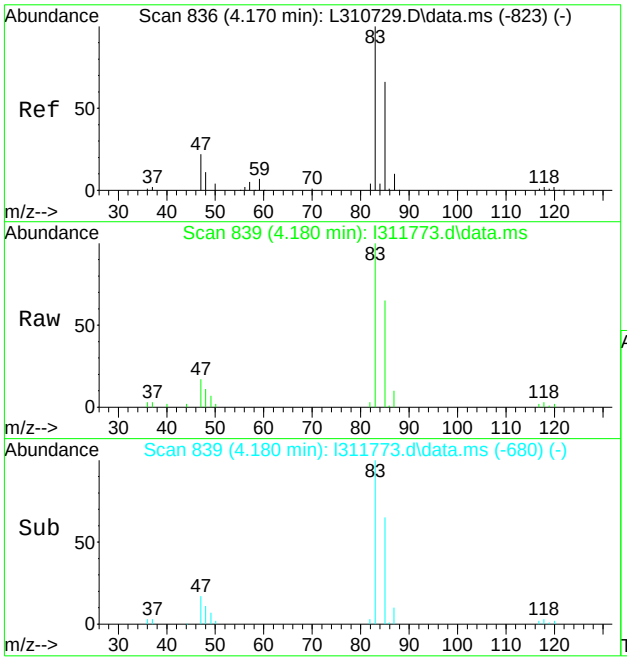


#38
cis-1,2-dichloroethene
Concen: 1.30 ug/L
RT: 3.958 min Scan# 770
Delta R.T. 0.010 min
Lab File: l311773.d
Acq: 9 May 2019 12:20 am

Tgt Ion: 96 Resp: 3328

Ion	Ratio	Lower	Upper
96	100		
61	123.4	122.3	182.3
98	69.9	32.5	92.5

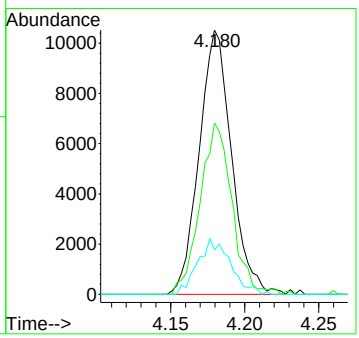


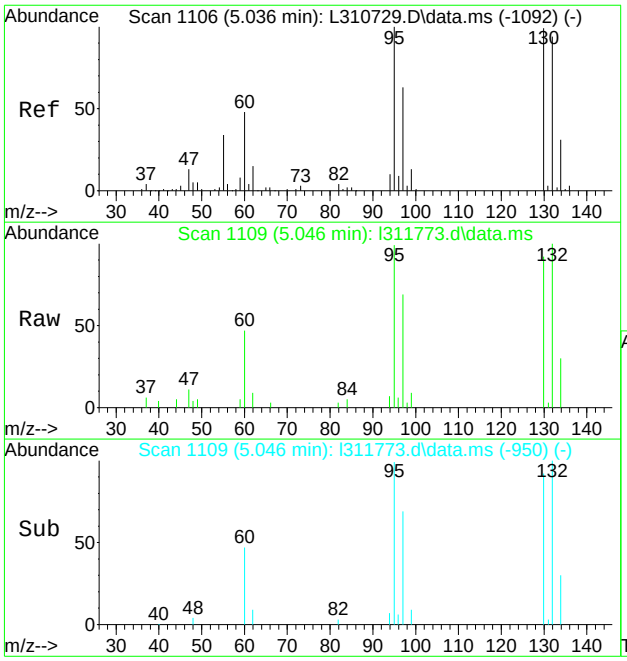


#43
chloroform
Concen: 3.75 ug/L
RT: 4.180 min Scan# 839
Delta R.T. 0.010 min
Lab File: l311773.d
Acq: 9 May 2019 12:20 am

Tgt Ion: 83 Resp: 15986

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.6	95.6
47	16.8	0.0	54.7

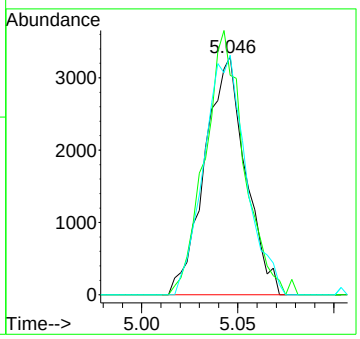


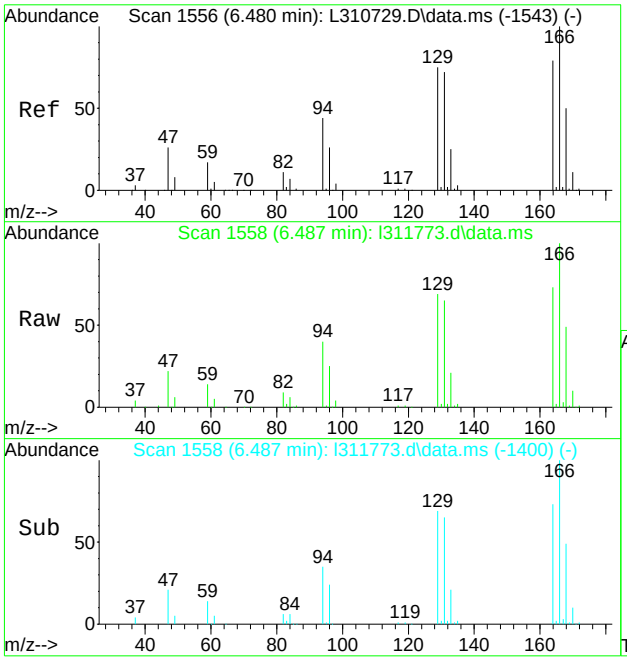


#60
trichloroethene
Concen: 2.21 ug/L
RT: 5.046 min Scan# 1109
Delta R.T. 0.010 min
Lab File: l311773.d
Acq: 9 May 2019 12:20 am

Tgt Ion: 95 Resp: 4866

Ion	Ratio	Lower	Upper
95	100		
130	92.3	69.3	129.3
132	100.7	63.9	123.9

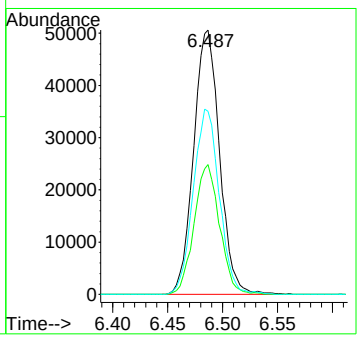




#80
tetrachloroethene
Concen: 36.65 ug/L
RT: 6.487 min Scan# 1558
Delta R.T. 0.006 min
Lab File: l311773.d
Acq: 9 May 2019 12:20 am

Tgt Ion:166 Resp: 83090

Ion	Ratio	Lower	Upper
166	100		
168	49.1	19.5	79.5
129	69.3	44.8	104.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311769.d
Acq On : 8 May 2019 10:31 pm
Operator : deving
Sample : JC87667-4 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 63 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:40:39 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

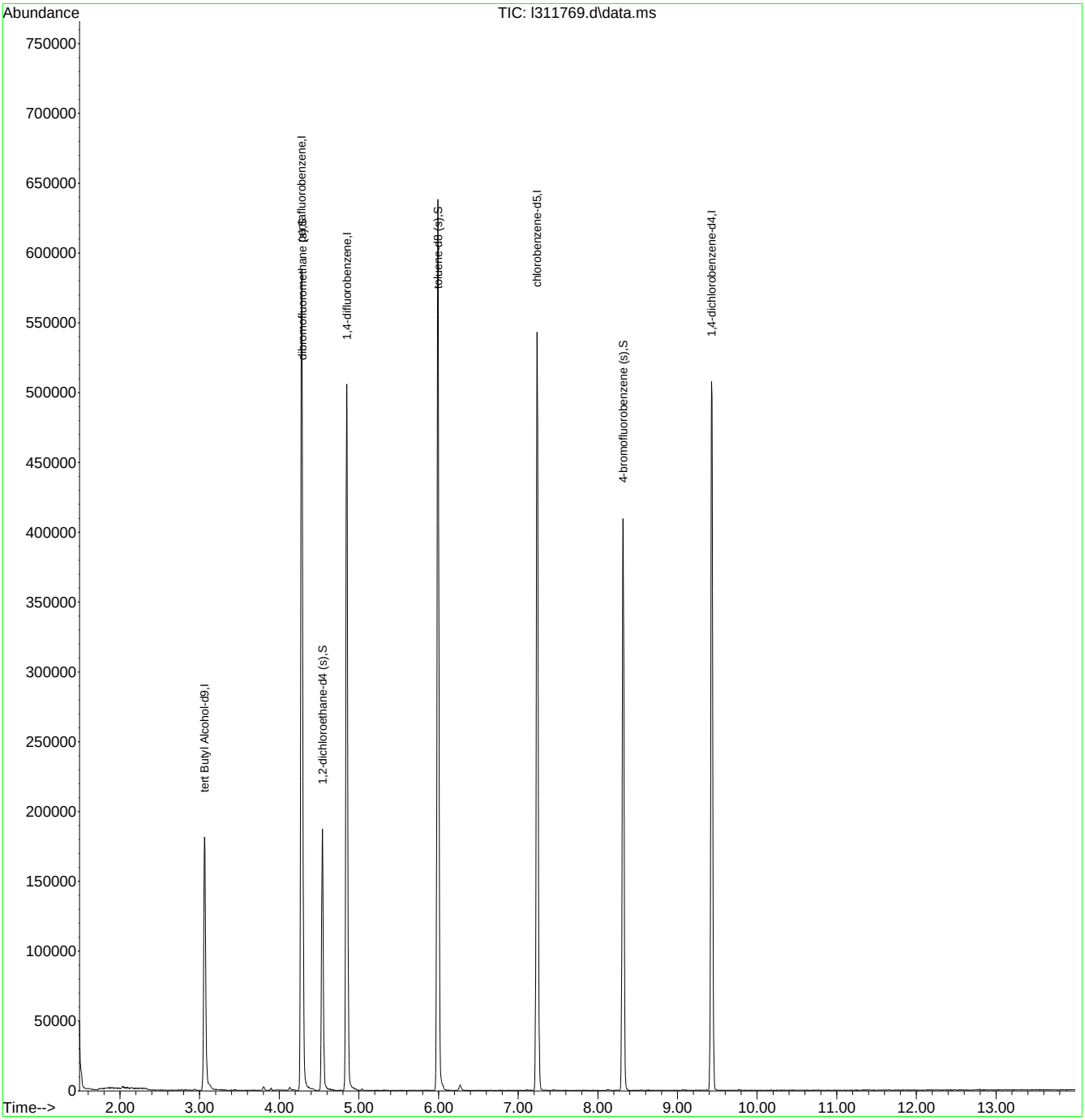
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.063	65	182461	500.00	ug/L	0.00
5) pentafluorobenzene	4.279	168	270099	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.847	114	355866	50.00	ug/L	0.00
73) chlorobenzene-d5	7.238	117	292450	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.429	152	137466	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.289	113	95984	43.36	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 86.72%			
53) 1,2-dichloroethane-d4 (s)	4.542	65	102101	42.95	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 85.90%			
74) toluene-d8 (s)	5.993	98	397633	50.56	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.12%			
97) 4-bromofluorobenzene (s)	8.319	95	137676	47.50	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.00%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311769.d
Acq On : 8 May 2019 10:31 pm
Operator : deving
Sample : JC87667-4 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 63 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:40:39 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311770.d
Acq On : 8 May 2019 10:58 pm
Operator : deving
Sample : JC87667-5 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 64 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:41:12 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

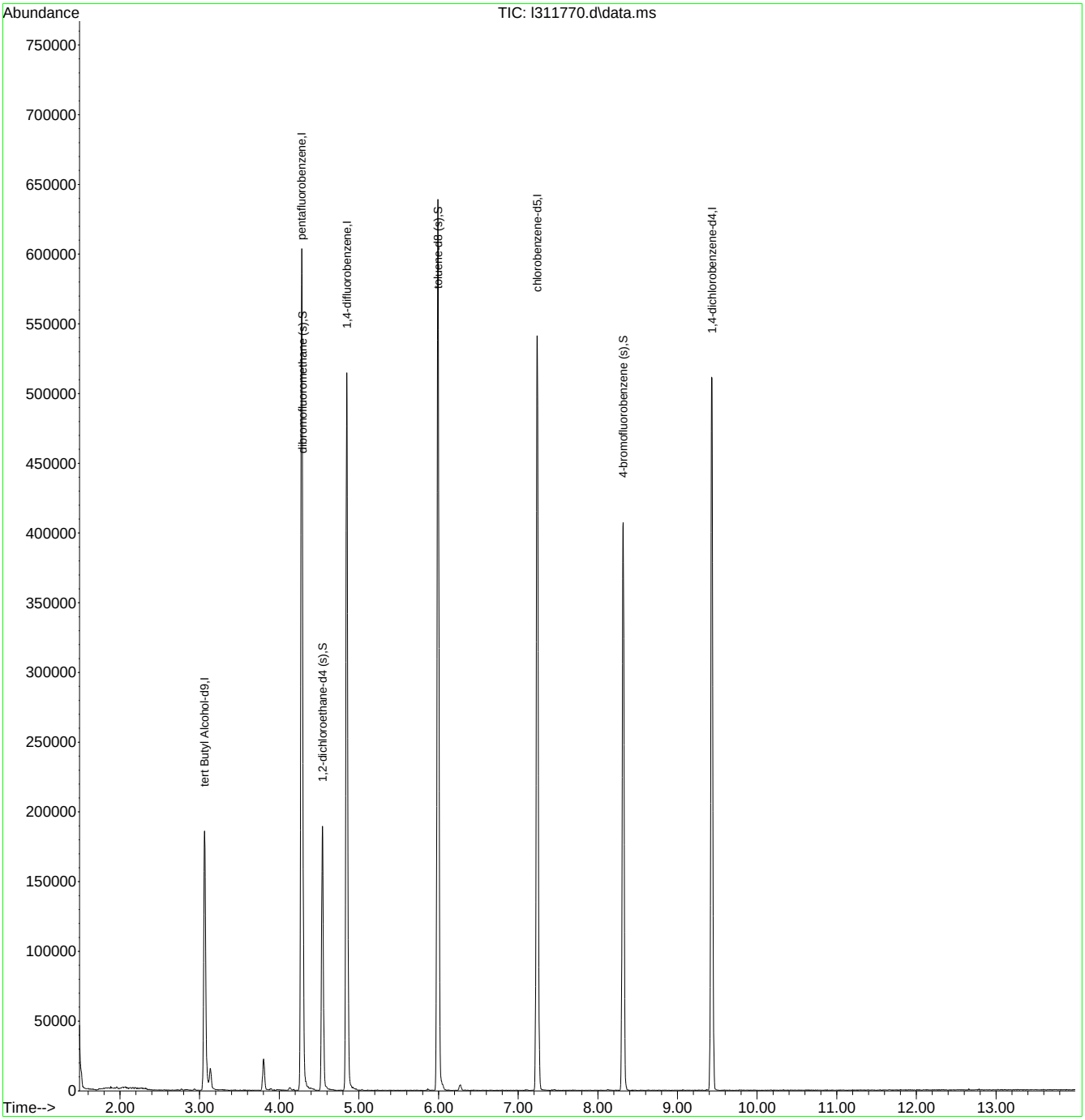
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.063	65	185986	500.00	ug/L	0.00
5) pentafluorobenzene	4.279	168	271497	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.847	114	357481	50.00	ug/L	0.00
73) chlorobenzene-d5	7.241	117	295645	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.432	152	139461	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.292	113	97962	44.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 88.06%			
53) 1,2-dichloroethane-d4 (s)	4.542	65	105839	44.32	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 88.64%			
74) toluene-d8 (s)	5.993	98	400836	50.42	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.84%			
97) 4-bromofluorobenzene (s)	8.319	95	140422	47.76	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.52%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311770.d
Acq On : 8 May 2019 10:58 pm
Operator : deving
Sample : JC87667-5 Inst : GCMSL
Misc : MS34606,VL9062,5,,,,1
ALS Vial : 64 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:41:12 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311762.d
Acq On : 8 May 2019 7:06 pm
Operator : deving
Sample : mb Inst : GCMSL
Misc : MS34605,VL9062,5,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:31:11 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

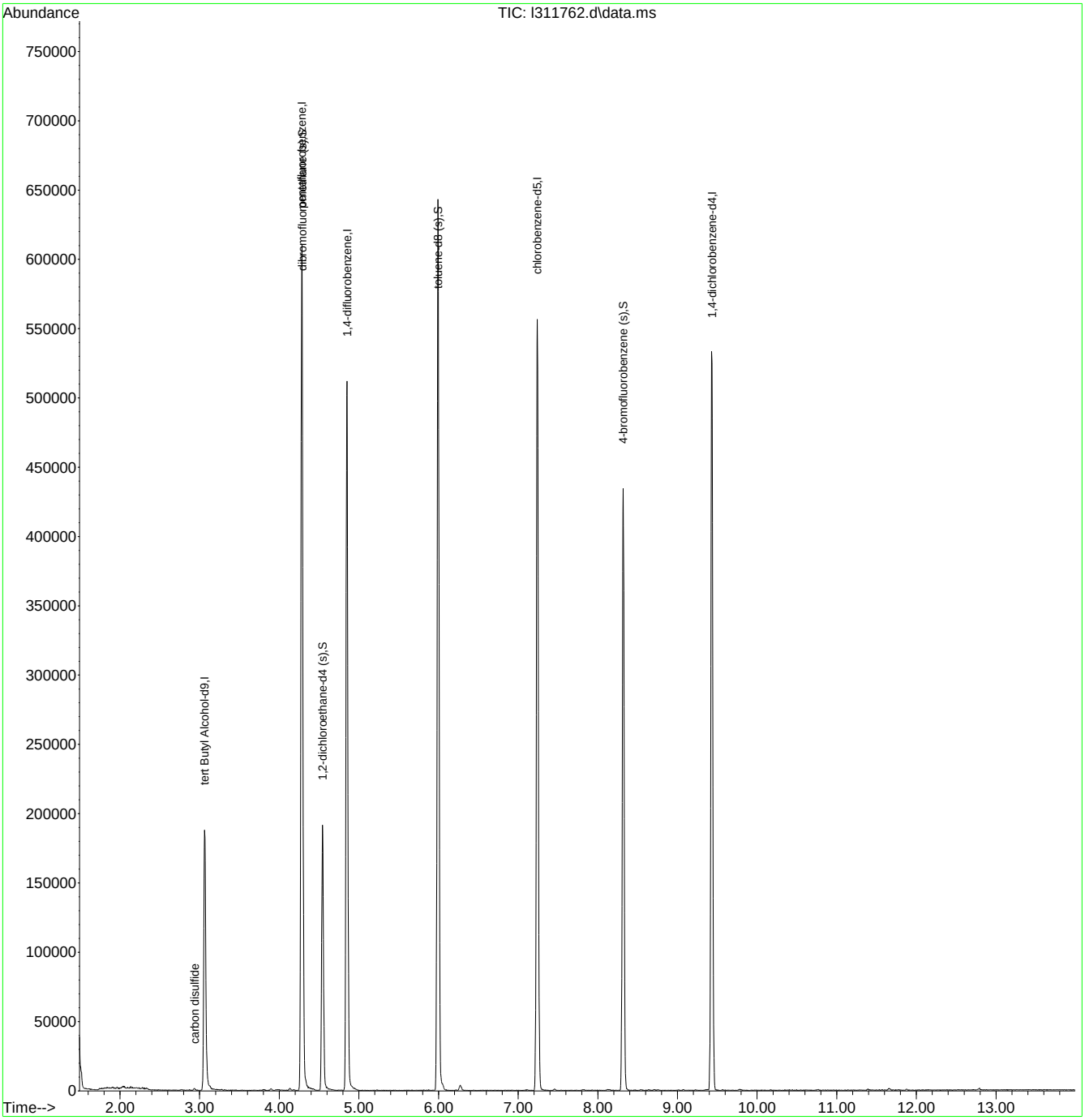
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.063	65	192528	500.00	ug/L	0.00
5) pentafluorobenzene	4.282	168	277827	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.850	114	360046	50.00	ug/L	0.00
73) chlorobenzene-d5	7.241	117	302326	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.433	152	143989	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.289	113	99889	43.87	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 87.74%			
53) 1,2-dichloroethane-d4 (s)	4.542	65	107091	44.52	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 89.04%			
74) toluene-d8 (s)	5.993	98	402794	49.54	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.08%			
97) 4-bromofluorobenzene (s)	8.319	95	144358	47.55	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.10%			
Target Compounds						Qvalue
23) carbon disulfide	2.938	76	1488	0.23	ug/L	74

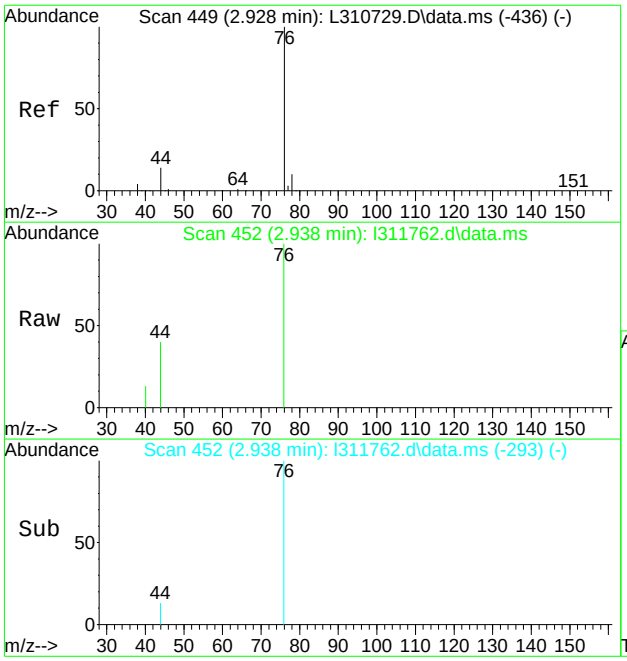
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311762.d
Acq On : 8 May 2019 7:06 pm
Operator : deving
Sample : mb Inst : GCMSL
Misc : MS34605,VL9062,5,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:31:11 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

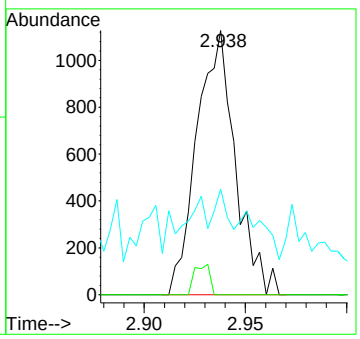




#23
carbon disulfide
Concen: 0.23 ug/L
RT: 2.938 min Scan# 452
Delta R.T. 0.010 min
Lab File: l311762.d
Acq: 8 May 2019 7:06 pm

Tgt Ion: 76 Resp: 1488

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.5
44	24.4	0.0	43.7



7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311759.d
Acq On : 8 May 2019 5:45 pm
Operator : deving
Sample : bs Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 18:27:13 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.066	65	139985	500.00	ug/L		0.00
5) pentafluorobenzene	4.285	168	206588	50.00	ug/L		0.01
52) 1,4-difluorobenzene	4.853	114	283876	50.00	ug/L		0.01
73) chlorobenzene-d5	7.244	117	254361	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.432	152	109804	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.295	113	77127	45.55	ug/L		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.10%				
53) 1,2-dichloroethane-d4 (s)	4.548	65	81085	42.76	ug/L		0.01
Spiked Amount 50.000	Range 81 - 124		Recovery = 85.52%				
74) toluene-d8 (s)	5.999	98	309944	45.31	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.62%				
97) 4-bromofluorobenzene (s)	8.322	95	114240	49.35	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.70%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.287	88	39869	1430.15	ug/L		99
3) ethanol	2.492	45	193828	5487.85	ug/L		99
4) tertiary butyl alcohol	3.124	59	87878	261.88	ug/L		96
6) chlorodifluoromethane	1.654	51	129646	48.20	ug/L		98
7) dichlorodifluoromethane	1.638	85	160612	49.65	ug/L		100
8) chloromethane	1.795	50	141846	47.15	ug/L		98
9) vinyl chloride	1.882	62	165607	56.76	ug/L		96
10) bromomethane	2.129	94	57155	62.87	ug/L		95
11) chloroethane	2.212	64	81206	55.16	ug/L		100
12) vinyl bromide	2.350	106	89507	67.44	ug/L		96
13) trichlorofluoromethane	2.395	101	151853	49.18	ug/L		98
14) ethyl ether	2.581	74	62974	53.57	ug/L		97
15) 2-chloropropane	2.675	43	157345	44.53	ug/L		97
16) acrolein	2.684	56	25279	59.05	ug/L		93
17) freon 113	2.755	151	70909	50.69	ug/L		99
18) 1,1-dichloroethene	2.764	96	85590	48.58	ug/L		96
19) acetone	2.774	58	63480	229.72	ug/L		86
20) acetonitrile	2.967	40	96200	436.70	ug/L		97
21) iodomethane	2.877	142	42039	71.51	ug/L		98
22) iso-butyl alcohol	4.436	43	66576	435.57	ug/L		96
23) carbon disulfide	2.934	76	239300	50.56	ug/L		96
24) methylene chloride	3.092	84	91833	50.81	ug/L		92
25) methyl acetate	2.979	74	23096	50.29	ug/L	#	84
26) methyl tert butyl ether	3.259	73	285326	49.85	ug/L		98
27) trans-1,2-dichloroethene	3.278	96	87673	49.82	ug/L		98
28) hexane	3.457	57	128200	47.00	ug/L		93
29) di-isopropyl ether	3.567	45	304231	45.99	ug/L		95
30) ethyl tert-butyl ether	3.814	59	301730	48.00	ug/L		97
31) 2-butanone	3.936	72	72261	207.10	ug/L	#	88
32) 1,1-dichloroethane	3.576	63	154698	45.94	ug/L		99
33) chloroprene	3.624	53	138512	45.25	ug/L		94
34) acrylonitrile	3.242	53	52451	48.18	ug/L		99
35) vinyl acetate	3.547	86	26967	53.46	ug/L		99
36) ethyl acetate	3.945	45	20013	42.26	ug/L	#	65
37) 2,2-dichloropropane	3.974	77	124791	47.08	ug/L		98
38) cis-1,2-dichloroethene	3.961	96	95446	49.39	ug/L		94
39) propionitrile	3.984	54	193879	450.37	ug/L		98
40) methyl acrylate	3.987	85	19578	50.21	ug/L	#	81
41) bromochloromethane	4.128	128	45563	52.14	ug/L	#	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311759.d
Acq On : 8 May 2019 5:45 pm
Operator : deving
Sample : bs Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 18:27:13 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) tetrahydrofuran	4.138	72	19232	48.03	ug/L		91
43) chloroform	4.183	83	146662	45.63	ug/L		99
45) methacrylonitrile	4.093	67	54009	50.19	ug/L		92
46) 1,1,1-trichloroethane	4.324	97	124846	48.34	ug/L		98
47) cyclohexane	4.382	84	118482	48.97	ug/L		94
48) 1,1-dichloropropene	4.430	75	115560	47.80	ug/L		97
49) carbon tetrachloride	4.433	117	100661	46.40	ug/L		98
50) isopropyl acetate	4.548	87	27080	51.07	ug/L	#	70
51) tert amyl alcohol	4.526	55	30189	226.37	ug/L		92
54) tert-amyl methyl ether	4.638	73	268451	50.12	ug/L		99
55) 2,2,4-trimethylpentane	4.642	57	204350	46.28	ug/L		94
56) n-butyl alcohol	4.911	56	224742	2443.15	ug/L		98
57) benzene	4.581	78	336805	49.29	ug/L		97
58) heptane	4.751	57	48765	49.23	ug/L		95
59) 1,2-dichloroethane	4.603	62	109373	45.68	ug/L		99
60) trichloroethene	5.046	95	89589	52.50	ug/L		97
61) ethyl acrylate	5.065	55	157490	52.04	ug/L		99
62) 2-nitropropane	5.595	41	31551	43.77	ug/L		98
63) 2-chloroethyl vinyl ether	5.627	63	346216	247.26	ug/L		99
64) methyl methacrylate	5.245	100	33922	58.19	ug/L	#	80
65) 1,2-dichloropropane	5.248	63	90072	50.83	ug/L		96
66) methylcyclohexane	5.235	83	125407	46.25	ug/L		96
67) dibromomethane	5.312	93	55062	51.80	ug/L		94
68) bromodichloromethane	5.431	83	117105	51.85	ug/L		99
69) cis-1,3-dichloropropene	5.771	75	149911	52.56	ug/L		95
70) epichlorohydrin	5.681	57	70691	250.66	ug/L		97
71) 4-methyl-2-pentanone	5.871	58	200888	196.97	ug/L		90
72) 3-methyl-1-butanol	5.890	70	79163	995.94	ug/L		94
75) toluene	6.057	92	210399	48.48	ug/L		99
76) trans-1,3-dichloropropene	6.224	75	135361	50.10	ug/L		97
77) ethyl methacrylate	6.243	69	145132	52.02	ug/L		95
78) 1,1,2-trichloroethane	6.394	83	75390	52.66	ug/L		99
79) 2-hexanone	6.560	58	207591	189.90	ug/L		88
80) tetrachloroethene	6.490	166	93849	49.53	ug/L		95
81) 1,3-dichloropropane	6.541	76	138597	48.37	ug/L		97
82) butyl acetate	6.641	56	84392	47.83	ug/L		93
83) dibromochloromethane	6.727	129	89495	51.95	ug/L		98
84) 1,2-dibromoethane	6.846	107	100228	43.55	ug/L		98
85) n-butyl ether	7.315	57	343867	49.29	ug/L		98
86) chlorobenzene	7.270	112	227108	48.97	ug/L		97
87) 1,1,1,2-tetrachloroethane	7.340	131	75693	50.96	ug/L		95
88) ethylbenzene	7.347	91	361719	47.49	ug/L		99
89) m,p-xylene	7.462	106	280346	94.90	ug/L		100
90) o-xylene	7.815	106	144673	49.54	ug/L		97
91) butyl acrylate	7.735	55	224757	52.41	ug/L		96
92) styrene	7.831	104	240740	51.16	ug/L		98
93) bromoform	8.008	173	66226	55.20	ug/L		100
94) isopropylbenzene	8.149	105	348968	48.69	ug/L		98
95) cis-1,4-dichloro-2-butene	8.203	88	46224	52.04	ug/L		98
98) bromobenzene	8.467	156	95951	53.24	ug/L		96
99) 1,1,2,2-tetrachloroethane	8.434	83	129059	54.07	ug/L		96
100) trans-1,4-dichloro-2-b...	8.470	53	33704	47.56	ug/L		98
101) 1,2,3-trichloropropane	8.495	110	34528	50.30	ug/L		98
102) n-propylbenzene	8.544	91	381754	48.03	ug/L		98
103) 2-chlorotoluene	8.643	126	82045	50.30	ug/L		91
104) 4-chlorotoluene	8.755	126	80472	51.15	ug/L		98
105) 1,3,5-trimethylbenzene	8.714	105	269822	50.64	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311759.d
Acq On : 8 May 2019 5:45 pm
Operator : deving
Sample : bs Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 18:27:13 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

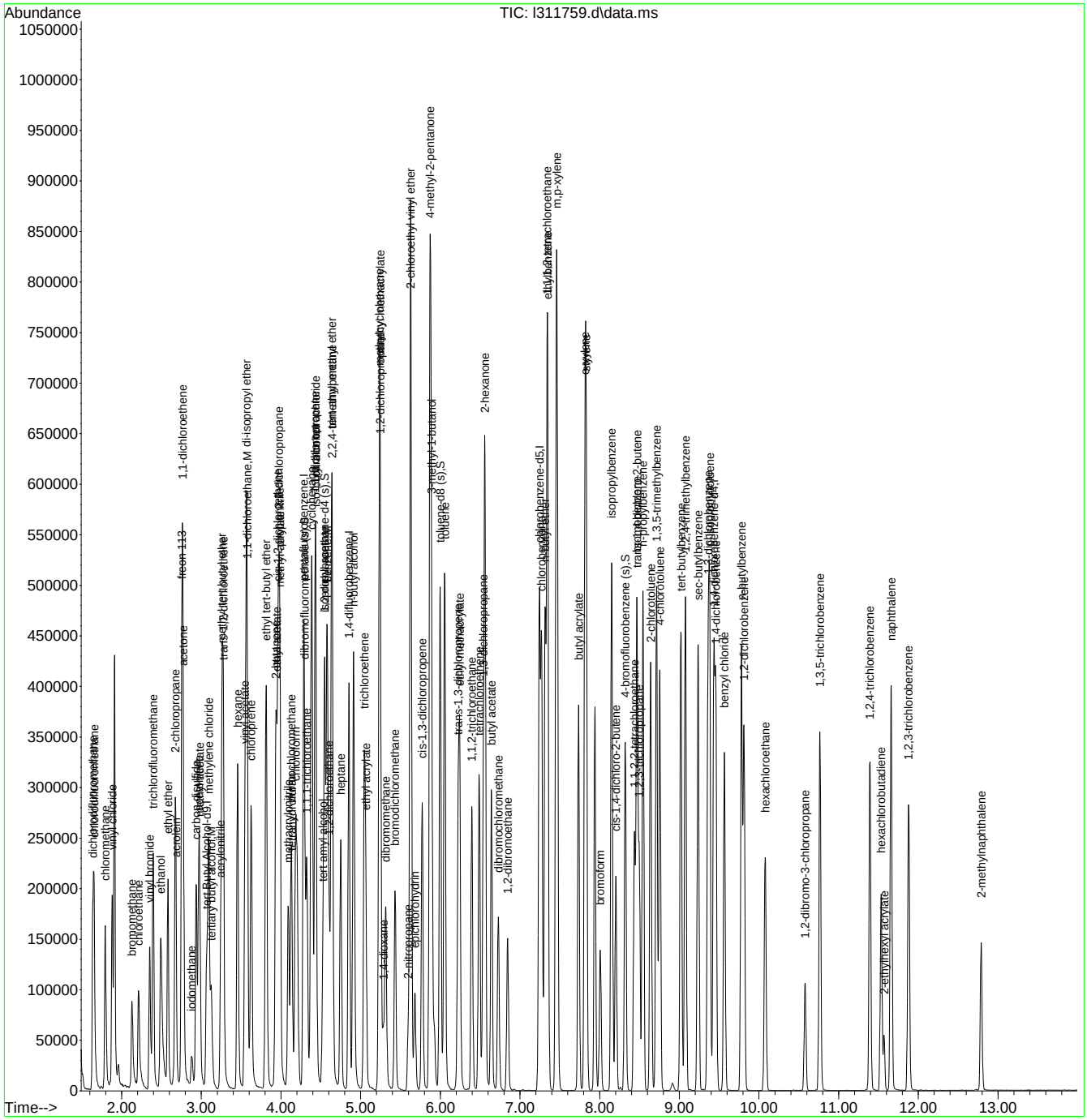
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	9.022	119	229441	49.67	ug/L	97
107) 1,2,4-trimethylbenzene	9.076	105	270514	50.28	ug/L	97
108) sec-butylbenzene	9.237	105	317838	48.95	ug/L	100
109) 1,3-dichlorobenzene	9.362	146	162536	50.49	ug/L	98
110) p-isopropyltoluene	9.381	119	259653	49.81	ug/L	99
111) 1,4-dichlorobenzene	9.458	146	158051	52.89	ug/L	99
112) 1,2-dichlorobenzene	9.811	146	155295	52.88	ug/L	96
113) n-butylbenzene	9.779	92	132608	51.84	ug/L	97
114) 1,2-dibromo-3-chloropr...	10.578	157	32153	55.82	ug/L	97
115) 1,3,5-trichlorobenzene	10.764	180	115041	53.69	ug/L	99
116) 1,2,4-trichlorobenzene	11.390	180	109616	55.85	ug/L	96
117) hexachlorobutadiene	11.531	225	42092	54.70	ug/L	97
118) naphthalene	11.659	128	325483	55.30	ug/L	99
119) 1,2,3-trichlorobenzene	11.878	180	96601	53.41	ug/L	95
120) hexachloroethane	10.077	119	46727	52.56	ug/L	94
121) benzyl chloride	9.564	91	237923	58.53	ug/L	99
122) 2-ethylhexyl acrylate	11.573	70	13528	10.88	ug/L	93
123) 2-methylnaphthalene	12.789	142	74793	26.91	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311759.d
Acq On : 8 May 2019 5:45 pm
Operator : deving
Sample : bs Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 18:27:13 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311760.d
Acq On : 8 May 2019 6:12 pm
Operator : deving
Sample : bsd Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 54 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 18:27:18 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.072	65	144204	500.00	ug/L		0.01
5) pentafluorobenzene	4.285	168	214478	50.00	ug/L		0.01
52) 1,4-difluorobenzene	4.853	114	292615	50.00	ug/L		0.01
73) chlorobenzene-d5	7.244	117	258724	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.433	152	111293	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.295	113	77637	44.17	ug/L		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 88.34%				
53) 1,2-dichloroethane-d4 (s)	4.549	65	81692	41.79	ug/L		0.01
Spiked Amount 50.000	Range 81 - 124		Recovery = 83.58%				
74) toluene-d8 (s)	5.999	98	319025	45.85	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.70%				
97) 4-bromofluorobenzene (s)	8.322	95	115593	49.26	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.52%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.283	88	40989	1427.31	ug/L		100
3) ethanol	2.495	45	194419	5343.54	ug/L		98
4) tertiary butyl alcohol	3.127	59	90301	261.23	ug/L		94
6) chlorodifluoromethane	1.654	51	125987	45.12	ug/L		99
7) dichlorodifluoromethane	1.638	85	158221	47.12	ug/L		97
8) chloromethane	1.795	50	143890	46.07	ug/L		97
9) vinyl chloride	1.882	62	164783	54.40	ug/L		99
10) bromomethane	2.132	94	56511	59.88	ug/L		99
11) chloroethane	2.212	64	82081	53.70	ug/L		99
12) vinyl bromide	2.354	106	91603	66.48	ug/L		97
13) trichlorofluoromethane	2.395	101	153701	47.95	ug/L		97
14) ethyl ether	2.582	74	61387	50.30	ug/L		98
15) 2-chloropropane	2.675	43	158261	43.15	ug/L		97
16) acrolein	2.687	56	26007	58.51	ug/L		94
17) freon 113	2.758	151	71817	49.46	ug/L		94
18) 1,1-dichloroethene	2.764	96	86477	47.28	ug/L		94
19) acetone	2.777	58	54423	189.70	ug/L	#	79
20) acetonitrile	2.970	40	94831	414.65	ug/L		96
21) iodomethane	2.880	142	42312	69.33	ug/L		99
22) iso-butyl alcohol	4.439	43	68068	428.95	ug/L		95
23) carbon disulfide	2.938	76	239731	48.79	ug/L		97
24) methylene chloride	3.095	84	91745	48.90	ug/L		89
25) methyl acetate	2.983	74	23479	49.25	ug/L	#	88
26) methyl tert butyl ether	3.262	73	288079	48.48	ug/L		98
27) trans-1,2-dichloroethene	3.278	96	90499	49.54	ug/L		94
28) hexane	3.458	57	129698	45.80	ug/L		96
29) di-isopropyl ether	3.570	45	301925	43.97	ug/L		97
30) ethyl tert-butyl ether	3.814	59	304233	46.62	ug/L		99
31) 2-butanone	3.936	72	70109	193.54	ug/L	#	83
32) 1,1-dichloroethane	3.576	63	157018	44.91	ug/L		97
33) chloroprene	3.624	53	139715	43.97	ug/L		97
34) acrylonitrile	3.243	53	52535	46.49	ug/L		98
35) vinyl acetate	3.551	86	25625	48.93	ug/L	#	87
36) ethyl acetate	3.945	45	22140	45.03	ug/L		93
37) 2,2-dichloropropane	3.974	77	125659	45.66	ug/L		98
38) cis-1,2-dichloroethene	3.961	96	95914	47.81	ug/L		95
39) propionitrile	3.987	54	196893	440.54	ug/L		97
40) methyl acrylate	3.990	85	20034	49.49	ug/L	#	76
41) bromochloromethate	4.128	128	46488	51.24	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311760.d
Acq On : 8 May 2019 6:12 pm
Operator : deving
Sample : bsd Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 54 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 18:27:18 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) tetrahydrofuran	4.141	72	19208	46.21	ug/L		89
43) chloroform	4.183	83	148193	44.41	ug/L		96
45) methacrylonitrile	4.093	67	54035	48.37	ug/L		98
46) 1,1,1-trichloroethane	4.324	97	124956	46.60	ug/L		98
47) cyclohexane	4.382	84	120751	48.07	ug/L		94
48) 1,1-dichloropropene	4.430	75	116618	46.46	ug/L		96
49) carbon tetrachloride	4.436	117	103125	45.78	ug/L		99
50) isopropyl acetate	4.552	87	27837	50.57	ug/L	#	71
51) tert amyl alcohol	4.526	55	31292	226.01	ug/L		99
54) tert-amyl methyl ether	4.638	73	271242	49.13	ug/L		99
55) 2,2,4-trimethylpentane	4.642	57	204215	44.87	ug/L		97
56) n-butyl alcohol	4.914	56	230976	2435.93	ug/L		99
57) benzene	4.581	78	340824	48.39	ug/L		97
58) heptane	4.751	57	49350	48.33	ug/L		94
59) 1,2-dichloroethane	4.606	62	108400	43.92	ug/L		96
60) trichloroethene	5.046	95	90911	51.68	ug/L		96
61) ethyl acrylate	5.065	55	160029	51.30	ug/L		99
62) 2-nitropropane	5.598	41	32341	43.53	ug/L		96
63) 2-chloroethyl vinyl ether	5.627	63	352736	244.39	ug/L		98
64) methyl methacrylate	5.245	100	33697	56.08	ug/L	#	76
65) 1,2-dichloropropane	5.245	63	91621	50.16	ug/L		96
66) methylcyclohexane	5.235	83	127154	45.49	ug/L		98
67) dibromomethane	5.316	93	56286	51.37	ug/L		91
68) bromodichloromethane	5.431	83	118519	50.91	ug/L		99
69) cis-1,3-dichloropropene	5.771	75	152119	51.74	ug/L		96
70) epichlorohydrin	5.681	57	75051	258.17	ug/L		98
71) 4-methyl-2-pentanone	5.871	58	205191	195.18	ug/L	#	89
72) 3-methyl-1-butanol	5.890	70	81314	992.45	ug/L		89
75) toluene	6.054	92	216252	48.99	ug/L		99
76) trans-1,3-dichloropropene	6.224	75	136553	49.69	ug/L		96
77) ethyl methacrylate	6.243	69	146870	51.76	ug/L		93
78) 1,1,2-trichloroethane	6.394	83	74298	51.03	ug/L		98
79) 2-hexanone	6.557	58	209419	188.34	ug/L		87
80) tetrachloroethene	6.490	166	96434	50.04	ug/L		95
81) 1,3-dichloropropane	6.538	76	140575	48.23	ug/L		99
82) butyl acetate	6.641	56	86561	48.23	ug/L		94
83) dibromochloromethane	6.727	129	91183	52.04	ug/L		98
84) 1,2-dibromoethane	6.843	107	101500	43.36	ug/L		99
85) n-butyl ether	7.315	57	350354	49.37	ug/L		99
86) chlorobenzene	7.270	112	230652	48.90	ug/L		99
87) 1,1,1,2-tetrachloroethane	7.337	131	77310	51.17	ug/L		95
88) ethylbenzene	7.344	91	371207	47.92	ug/L		99
89) m,p-xylene	7.459	106	287433	95.66	ug/L		98
90) o-xylene	7.815	106	146090	49.19	ug/L		97
91) butyl acrylate	7.735	55	228189	52.31	ug/L		97
92) styrene	7.831	104	245456	51.29	ug/L		98
93) bromoform	8.008	173	67101	54.99	ug/L		97
94) isopropylbenzene	8.149	105	358235	49.14	ug/L		98
95) cis-1,4-dichloro-2-butene	8.207	88	46338	51.29	ug/L		94
98) bromobenzene	8.463	156	99174	54.29	ug/L		93
99) 1,1,2,2-tetrachloroethane	8.435	83	131220	54.24	ug/L		99
100) trans-1,4-dichloro-2-b...	8.470	53	34322	47.78	ug/L		93
101) 1,2,3-trichloropropane	8.499	110	34713	49.90	ug/L		97
102) n-propylbenzene	8.544	91	391247	48.57	ug/L		100
103) 2-chlorotoluene	8.640	126	83725	50.64	ug/L		97
104) 4-chlorotoluene	8.755	126	83070	52.09	ug/L		95
105) 1,3,5-trimethylbenzene	8.714	105	272367	50.43	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311760.d
Acq On : 8 May 2019 6:12 pm
Operator : deving
Sample : bsd Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 54 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 18:27:18 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

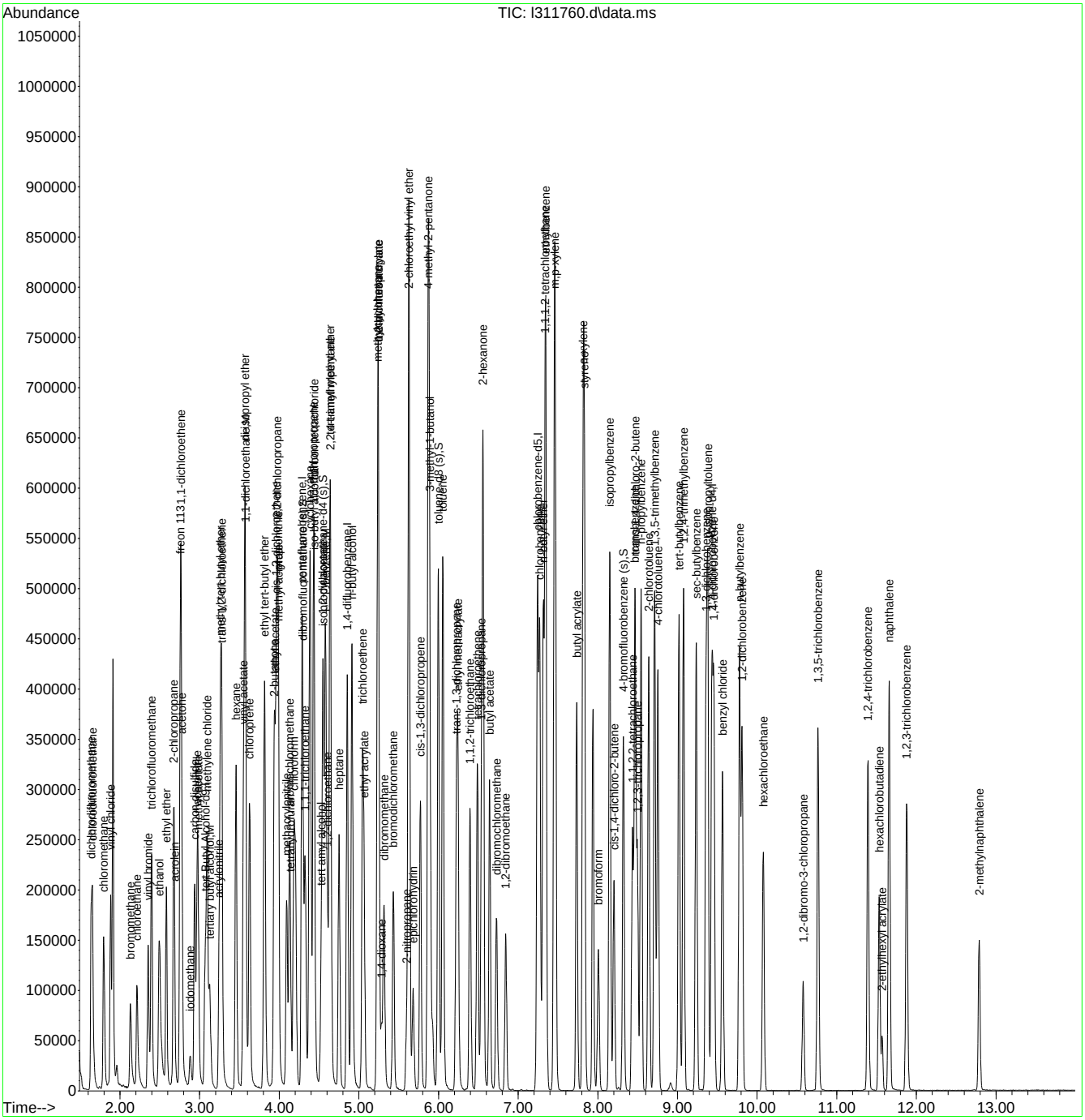
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	9.019	119	232415	49.64	ug/L	97
107) 1,2,4-trimethylbenzene	9.076	105	275071	50.44	ug/L	97
108) sec-butylbenzene	9.237	105	320618	48.72	ug/L	99
109) 1,3-dichlorobenzene	9.359	146	163601	50.15	ug/L	99
110) p-isopropyltoluene	9.381	119	264167	50.00	ug/L	99
111) 1,4-dichlorobenzene	9.455	146	160361	52.94	ug/L	99
112) 1,2-dichlorobenzene	9.811	146	156973	52.74	ug/L	98
113) n-butylbenzene	9.779	92	134310	51.80	ug/L	99
114) 1,2-dibromo-3-chloropr...	10.581	157	33047	56.60	ug/L	97
115) 1,3,5-trichlorobenzene	10.764	180	115785	53.31	ug/L	99
116) 1,2,4-trichlorobenzene	11.390	180	110405	55.50	ug/L	99
117) hexachlorobutadiene	11.534	225	41994	53.84	ug/L	98
118) naphthalene	11.656	128	330435	55.39	ug/L	99
119) 1,2,3-trichlorobenzene	11.878	180	97904	53.41	ug/L	96
120) hexachloroethane	10.078	119	47308	52.50	ug/L	94
121) benzyl chloride	9.567	91	239260	58.07	ug/L	99
122) 2-ethylhexyl acrylate	11.570	70	13719	10.89	ug/L	97
123) 2-methylnaphthalene	12.789	142	76912	27.30	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311760.d
Acq On : 8 May 2019 6:12 pm
Operator : deving
Sample : bsd Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 54 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 18:27:18 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311764.d
Acq On : 8 May 2019 8:16 pm
Operator : deving
Sample : JC87593-2ms Inst : GCMSL
Misc : MS34567,VL9062,5,,,,10
ALS Vial : 58 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:34:14 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.069	65	150622	500.00	ug/L		0.00
5) pentafluorobenzene	4.282	168	217389	50.00	ug/L		0.00
52) 1,4-difluorobenzene	4.850	114	296974	50.00	ug/L		0.00
73) chlorobenzene-d5	7.241	117	260642	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.433	152	109209	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.292	113	79337	44.53	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 89.06%				
53) 1,2-dichloroethane-d4 (s)	4.545	65	81469	41.06	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 82.12%				
74) toluene-d8 (s)	5.996	98	323183	46.11	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.22%				
97) 4-bromofluorobenzene (s)	8.322	95	115648	50.23	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.46%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.283	88	41516	1384.06	ug/L		95
3) ethanol	2.492	45	202623	5331.72	ug/L		96
4) tertiary butyl alcohol	3.124	59	97344	269.60	ug/L		91
6) chlorodifluoromethane	1.654	51	135265	47.79	ug/L		99
7) dichlorodifluoromethane	1.638	85	139152	40.88	ug/L		99
8) chloromethane	1.795	50	128424	40.56	ug/L		99
9) vinyl chloride	1.882	62	150447	49.00	ug/L		99
10) bromomethane	2.129	94	45080	47.12	ug/L		98
11) chloroethane	2.213	64	72873	47.04	ug/L		99
12) vinyl bromide	2.354	106	79480	56.91	ug/L		96
13) trichlorofluoromethane	2.395	101	139071	42.80	ug/L		99
14) ethyl ether	2.582	74	61192	49.47	ug/L		91
15) 2-chloropropane	2.675	43	162161	43.62	ug/L		97
16) acrolein	2.684	56	21615	47.98	ug/L		99
17) freon 113	2.758	151	66750	45.35	ug/L		94
18) 1,1-dichloroethene	2.761	96	89103	48.06	ug/L		96
19) acetone	2.774	58	51039	175.52	ug/L	#	85
20) acetonitrile	2.970	40	98273	423.95	ug/L		99
21) iodomethane	2.880	142	23916	38.66	ug/L		93
22) iso-butyl alcohol	4.433	43	67266	418.22	ug/L		94
23) carbon disulfide	2.935	76	242109	48.62	ug/L		97
24) methylene chloride	3.092	84	91771	48.26	ug/L		94
25) methyl acetate	2.983	74	23732	49.11	ug/L	#	70
26) methyl tert butyl ether	3.259	73	282803	46.95	ug/L		99
27) trans-1,2-dichloroethene	3.275	96	93452	50.47	ug/L		98
28) hexane	3.454	57	98849	34.44	ug/L		96
29) di-isopropyl ether	3.567	45	302601	43.47	ug/L		98
30) ethyl tert-butyl ether	3.814	59	299763	45.32	ug/L		98
31) 2-butanone	3.933	72	68750	187.25	ug/L		92
32) 1,1-dichloroethane	3.573	63	159195	44.92	ug/L		98
33) chloroprene	3.624	53	140617	43.66	ug/L		95
34) acrylonitrile	3.239	53	52617	45.94	ug/L		96
35) vinyl acetate	3.544	86	25776	48.56	ug/L		94
36) ethyl acetate	3.945	45	21999	44.14	ug/L	#	45
37) 2,2-dichloropropane	3.971	77	91186	32.69	ug/L		98
38) cis-1,2-dichloroethene	3.958	96	100231	49.29	ug/L		92
39) propionitrile	3.984	54	196545	433.87	ug/L		98
40) methyl acrylate	3.987	85	19353	47.17	ug/L	#	81
41) bromochloromethane	4.125	128	44405	48.29	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311764.d
Acq On : 8 May 2019 8:16 pm
Operator : deving
Sample : JC87593-2ms Inst : GCMSL
Misc : MS34567,VL9062,5,,,,10
ALS Vial : 58 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:34:14 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	tetrahydrofuran	4.138	72	20595	48.88	ug/L		86
43)	chloroform	4.180	83	149030	44.07	ug/L		98
45)	methacrylonitrile	4.090	67	53856	47.56	ug/L		93
46)	1,1,1-trichloroethane	4.321	97	126643	46.60	ug/L		99
47)	cyclohexane	4.379	84	105866	41.58	ug/L		92
48)	1,1-dichloropropene	4.427	75	117213	46.08	ug/L		96
49)	carbon tetrachloride	4.433	117	107654	47.15	ug/L		96
50)	isopropyl acetate	4.552	87	26605	47.69	ug/L	#	59
51)	tert amyl alcohol	4.526	55	31290	222.97	ug/L		94
54)	tert-amyl methyl ether	4.635	73	265856	47.45	ug/L		99
55)	2,2,4-trimethylpentane	4.638	57	145687	31.54	ug/L		98
56)	n-butyl alcohol	4.908	56	236868	2461.40	ug/L		96
57)	benzene	4.577	78	343197	48.01	ug/L		98
58)	heptane	4.748	57	34437	33.23	ug/L		95
59)	1,2-dichloroethane	4.600	62	107450	42.89	ug/L		99
60)	trichloroethene	5.043	95	359795	201.55	ug/L		99
61)	ethyl acrylate	5.062	55	145157	45.85	ug/L		94
62)	2-nitropropane	5.595	41	29566	39.21	ug/L		97
64)	methyl methacrylate	5.242	100	32758	53.72	ug/L	#	89
65)	1,2-dichloropropane	5.242	63	88743	47.87	ug/L		96
66)	methylcyclohexane	5.232	83	113236	39.92	ug/L		99
67)	dibromomethane	5.312	93	54671	49.16	ug/L		93
68)	bromodichloromethane	5.431	83	115333	48.82	ug/L		99
69)	cis-1,3-dichloropropene	5.771	75	145622	48.80	ug/L		96
70)	epichlorohydrin	5.681	57	65092	220.62	ug/L		97
71)	4-methyl-2-pentanone	5.871	58	206180	193.25	ug/L		91
72)	3-methyl-1-butanol	5.890	70	83584	1005.18	ug/L		90
75)	toluene	6.050	92	214404	48.22	ug/L		99
76)	trans-1,3-dichloropropene	6.220	75	125434	45.30	ug/L		93
77)	ethyl methacrylate	6.243	69	144642	50.60	ug/L		94
78)	1,1,2-trichloroethane	6.394	83	75244	51.30	ug/L		99
79)	2-hexanone	6.557	58	204417	182.49	ug/L		92
80)	tetrachloroethene	6.487	166	97821	50.38	ug/L		94
81)	1,3-dichloropropane	6.538	76	137319	46.77	ug/L		99
82)	butyl acetate	6.641	56	82326	45.54	ug/L		93
83)	dibromochloromethane	6.727	129	87694	49.68	ug/L		97
84)	1,2-dibromoethane	6.843	107	98135	41.61	ug/L		98
85)	n-butyl ether	7.311	57	341703	47.80	ug/L		99
86)	chlorobenzene	7.267	112	226798	47.73	ug/L		97
87)	1,1,1,2-tetrachloroethane	7.337	131	75082	49.33	ug/L		94
88)	ethylbenzene	7.344	91	365146	46.79	ug/L		99
89)	m,p-xylene	7.459	106	278873	92.13	ug/L		100
90)	o-xylene	7.815	106	142093	47.49	ug/L		97
91)	butyl acrylate	7.735	55	220126	50.09	ug/L		96
92)	styrene	7.828	104	238221	49.41	ug/L		98
93)	bromoform	8.005	173	63463	51.62	ug/L		97
94)	isopropylbenzene	8.149	105	348846	47.50	ug/L		99
95)	cis-1,4-dichloro-2-butene	8.200	88	37874	41.61	ug/L		97
98)	bromobenzene	8.463	156	94955	52.97	ug/L		94
99)	1,1,2,2-tetrachloroethane	8.431	83	126940	53.47	ug/L		98
100)	trans-1,4-dichloro-2-b...	8.470	53	27839	39.50	ug/L		88
101)	1,2,3-trichloropropane	8.499	110	34186	50.08	ug/L		99
102)	n-propylbenzene	8.544	91	381117	48.21	ug/L		98
103)	2-chlorotoluene	8.637	126	80800	49.81	ug/L		96
104)	4-chlorotoluene	8.755	126	80667	51.55	ug/L		87
105)	1,3,5-trimethylbenzene	8.711	105	264754	49.96	ug/L		100
106)	tert-butylbenzene	9.019	119	225209	49.02	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311764.d
Acq On : 8 May 2019 8:16 pm
Operator : deving
Sample : JC87593-2ms Inst : GCMSL
Misc : MS34567,VL9062,5,,,,10
ALS Vial : 58 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:34:14 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

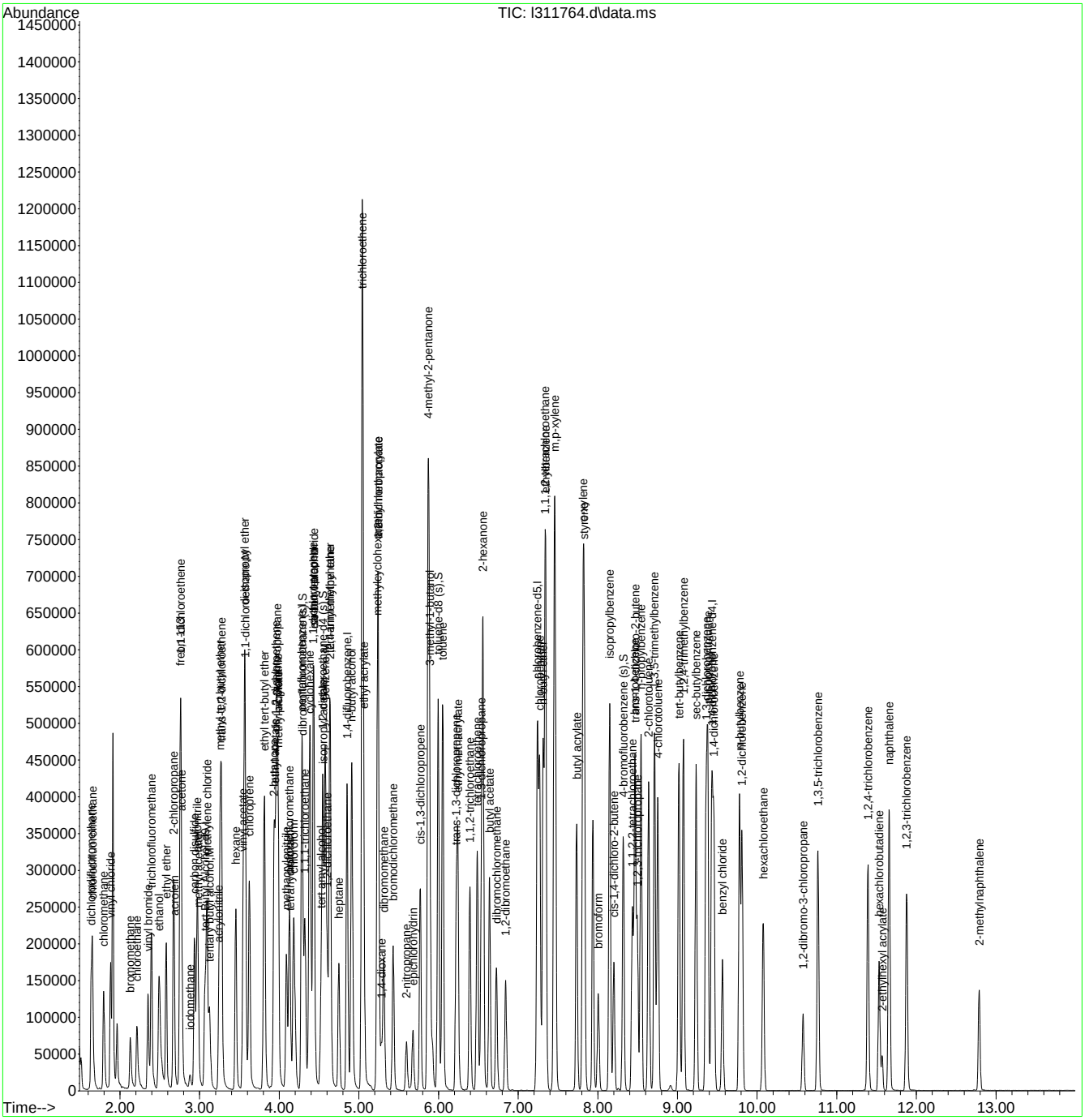
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,4-trimethylbenzene	9.076	105	266704	49.84	ug/L	99
108) sec-butylbenzene	9.234	105	311701	48.27	ug/L	99
109) 1,3-dichlorobenzene	9.362	146	156568	48.91	ug/L	98
110) p-isopropyltoluene	9.381	119	250276	48.27	ug/L	99
111) 1,4-dichlorobenzene	9.455	146	151783	51.07	ug/L	99
112) 1,2-dichlorobenzene	9.808	146	151379	51.83	ug/L	97
113) n-butylbenzene	9.779	92	125122	49.18	ug/L	99
114) 1,2-dibromo-3-chloropr...	10.578	157	32328	56.43	ug/L	99
115) 1,3,5-trichlorobenzene	10.764	180	106928	50.17	ug/L	98
116) 1,2,4-trichlorobenzene	11.393	180	101682	52.09	ug/L	100
117) hexachlorobutadiene	11.531	225	38766	50.65	ug/L	90
118) naphthalene	11.656	128	316910	54.14	ug/L	99
119) 1,2,3-trichlorobenzene	11.878	180	91803	51.03	ug/L	98
120) hexachloroethane	10.078	119	44904	50.78	ug/L	93
121) benzyl chloride	9.564	91	129001	31.91	ug/L	98
122) 2-ethylhexyl acrylate	11.573	70	12244	9.90	ug/L	95
123) 2-methylnaphthalene	12.789	142	68797	24.89	ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311764.d
Acq On : 8 May 2019 8:16 pm
Operator : deving
Sample : JC87593-2ms Inst : GCMSL
Misc : MS34567,VL9062,5,,,,10
ALS Vial : 58 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:34:14 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311765.d
Acq On : 8 May 2019 8:43 pm
Operator : deving
Sample : JC87593-2msd Inst : GCMSL
Misc : MS34567,VL9062,5,,,,10
ALS Vial : 59 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:35:46 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.063	65	145262	500.00	ug/L		0.00
5) pentafluorobenzene	4.279	168	213551	50.00	ug/L		0.00
52) 1,4-difluorobenzene	4.850	114	288699	50.00	ug/L		0.00
73) chlorobenzene-d5	7.241	117	254734	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.433	152	110865	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.292	113	78030	44.58	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 89.16%				
53) 1,2-dichloroethane-d4 (s)	4.546	65	81411	42.21	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 84.42%				
74) toluene-d8 (s)	5.996	98	315283	46.03	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.06%				
97) 4-bromofluorobenzene (s)	8.319	95	114246	48.88	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.76%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.280	88	39740	1373.74	ug/L		99
3) ethanol	2.489	45	195123	5323.83	ug/L		100
4) tertiary butyl alcohol	3.121	59	94160	270.41	ug/L		94
6) chlorodifluoromethane	1.654	51	130699	47.01	ug/L		99
7) dichlorodifluoromethane	1.638	85	144604	43.25	ug/L		100
8) chloromethane	1.796	50	122067	39.25	ug/L		97
9) vinyl chloride	1.882	62	147019	48.74	ug/L		99
10) bromomethane	2.129	94	48541	51.65	ug/L		91
11) chloroethane	2.213	64	71581	47.04	ug/L		99
12) vinyl bromide	2.351	106	78451	57.18	ug/L		96
13) trichlorofluoromethane	2.392	101	140722	44.09	ug/L		100
14) ethyl ether	2.579	74	59892	49.29	ug/L		93
15) 2-chloropropane	2.672	43	159454	43.66	ug/L		98
16) acrolein	2.681	56	21316	48.17	ug/L		88
17) freon 113	2.755	151	71516	49.46	ug/L		94
18) 1,1-dichloroethene	2.758	96	88714	48.71	ug/L		94
19) acetone	2.774	58	49792	174.31	ug/L	#	81
20) acetonitrile	2.967	40	91494	401.80	ug/L		94
21) iodomethane	2.874	142	35525	58.46	ug/L		89
22) iso-butyl alcohol	4.430	43	64283	406.86	ug/L		95
23) carbon disulfide	2.931	76	241883	49.44	ug/L		96
24) methylene chloride	3.089	84	90886	48.65	ug/L		93
25) methyl acetate	2.980	74	22203	46.77	ug/L	#	83
26) methyl tert butyl ether	3.256	73	276380	46.71	ug/L		98
27) trans-1,2-dichloroethene	3.272	96	91927	50.54	ug/L		97
28) hexane	3.451	57	107080	37.98	ug/L		96
29) di-isopropyl ether	3.564	45	296919	43.42	ug/L		99
30) ethyl tert-butyl ether	3.811	59	294972	45.39	ug/L		99
31) 2-butanone	3.929	72	66674	184.85	ug/L	#	87
32) 1,1-dichloroethane	3.570	63	158127	45.42	ug/L		98
33) chloroprene	3.621	53	139074	43.96	ug/L		96
34) acrylonitrile	3.236	53	51012	45.33	ug/L		99
35) vinyl acetate	3.541	86	24420	46.83	ug/L		98
36) ethyl acetate	3.939	45	21084	43.07	ug/L		97
37) 2,2-dichloropropane	3.968	77	90638	33.08	ug/L		98
38) cis-1,2-dichloroethene	3.955	96	100188	50.16	ug/L		93
39) propionitrile	3.981	54	191522	430.38	ug/L		99
40) methyl acrylate	3.984	85	18968	47.06	ug/L	#	78
41) bromochloromethane	4.125	128	44526	49.29	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311765.d
Acq On : 8 May 2019 8:43 pm
Operator : deving
Sample : JC87593-2msd Inst : GCMSL
Misc : MS34567,VL9062,5,,,,10
ALS Vial : 59 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:35:46 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) tetrahydrofuran	4.135	72	19792	47.82	ug/L	#	86
43) chloroform	4.177	83	145850	43.90	ug/L		98
45) methacrylonitrile	4.087	67	52258	46.98	ug/L		97
46) 1,1,1-trichloroethane	4.318	97	127700	47.83	ug/L		99
47) cyclohexane	4.379	84	109277	43.69	ug/L		98
48) 1,1-dichloropropene	4.427	75	116055	46.44	ug/L		96
49) carbon tetrachloride	4.433	117	106730	47.59	ug/L		97
50) isopropyl acetate	4.546	87	26118	47.65	ug/L	#	72
51) tert amyl alcohol	4.523	55	31515	228.61	ug/L		98
54) tert-amyl methyl ether	4.635	73	264367	48.54	ug/L		98
55) 2,2,4-trimethylpentane	4.639	57	170151	37.89	ug/L		96
56) n-butyl alcohol	4.908	56	228003	2437.19	ug/L		96
57) benzene	4.574	78	338239	48.67	ug/L		97
58) heptane	4.745	57	37258	36.98	ug/L		90
59) 1,2-dichloroethane	4.600	62	106235	43.62	ug/L		96
60) trichloroethene	5.040	95	358619	206.65	ug/L		99
61) ethyl acrylate	5.059	55	142426	46.27	ug/L		92
62) 2-nitropropane	5.595	41	30153	41.13	ug/L		92
64) methyl methacrylate	5.242	100	31940	53.88	ug/L	#	78
65) 1,2-dichloropropane	5.242	63	87850	48.75	ug/L		99
66) methylcyclohexane	5.232	83	121016	43.88	ug/L		98
67) dibromomethane	5.309	93	54491	50.41	ug/L		95
68) bromodichloromethane	5.428	83	114585	49.89	ug/L		100
69) cis-1,3-dichloropropene	5.768	75	144466	49.80	ug/L		95
70) epichlorohydrin	5.675	57	62742	218.75	ug/L		98
71) 4-methyl-2-pentanone	5.868	58	201661	194.43	ug/L		92
72) 3-methyl-1-butanol	5.887	70	82468	1020.18	ug/L		91
75) toluene	6.051	92	210758	48.50	ug/L		98
76) trans-1,3-dichloropropene	6.221	75	123463	45.63	ug/L		97
77) ethyl methacrylate	6.240	69	142135	50.87	ug/L		95
78) 1,1,2-trichloroethane	6.391	83	72676	50.69	ug/L		97
79) 2-hexanone	6.554	58	201389	183.95	ug/L		93
80) tetrachloroethene	6.484	166	97641	51.46	ug/L		97
81) 1,3-dichloropropane	6.535	76	135911	47.36	ug/L		99
82) butyl acetate	6.638	56	81622	46.19	ug/L		91
83) dibromochloromethane	6.724	129	85717	49.68	ug/L		99
84) 1,2-dibromoethane	6.840	107	96300	41.78	ug/L		100
85) n-butyl ether	7.312	57	340851	48.78	ug/L		100
86) chlorobenzene	7.267	112	226490	48.77	ug/L		98
87) 1,1,1,2-tetrachloroethane	7.337	131	74881	50.34	ug/L		97
88) ethylbenzene	7.341	91	363048	47.60	ug/L		99
89) m,p-xylene	7.459	106	278950	94.29	ug/L		97
90) o-xylene	7.812	106	141919	48.53	ug/L		95
91) butyl acrylate	7.732	55	218482	50.87	ug/L		98
92) styrene	7.828	104	238382	50.59	ug/L		99
93) bromoform	8.005	173	63043	52.47	ug/L		97
94) isopropylbenzene	8.149	105	348161	48.50	ug/L		98
95) cis-1,4-dichloro-2-butene	8.200	88	37453	42.10	ug/L		93
98) bromobenzene	8.464	156	94875	52.14	ug/L		95
99) 1,1,2,2-tetrachloroethane	8.435	83	125224	51.96	ug/L		97
100) trans-1,4-dichloro-2-b...	8.470	53	28669	40.07	ug/L		87
101) 1,2,3-trichloropropane	8.496	110	34001	49.06	ug/L		99
102) n-propylbenzene	8.541	91	376896	46.97	ug/L		98
103) 2-chlorotoluene	8.637	126	81385	49.42	ug/L		92
104) 4-chlorotoluene	8.752	126	79398	49.98	ug/L		98
105) 1,3,5-trimethylbenzene	8.711	105	264390	49.14	ug/L		98
106) tert-butylbenzene	9.019	119	228848	49.07	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311765.d
Acq On : 8 May 2019 8:43 pm
Operator : deving
Sample : JC87593-2msd Inst : GCMSL
Misc : MS34567,VL9062,5,,,,10
ALS Vial : 59 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:35:46 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

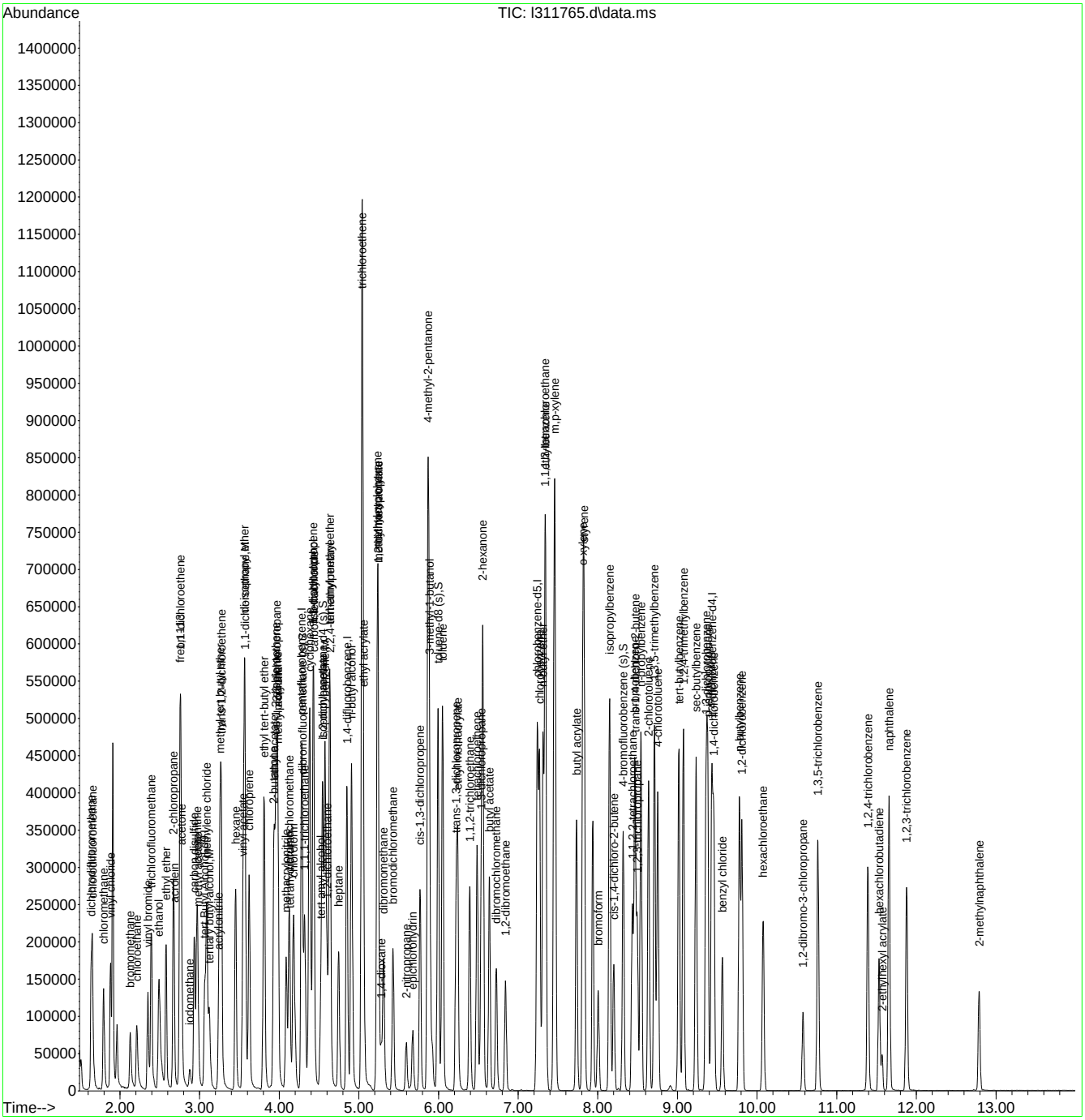
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,4-trimethylbenzene	9.077	105	267039	49.16	ug/L	99
108) sec-butylbenzene	9.234	105	313198	47.78	ug/L	98
109) 1,3-dichlorobenzene	9.359	146	158182	48.67	ug/L	99
110) p-isopropyltoluene	9.381	119	249910	47.48	ug/L	99
111) 1,4-dichlorobenzene	9.455	146	153672	50.93	ug/L	99
112) 1,2-dichlorobenzene	9.808	146	152139	51.31	ug/L	98
113) n-butylbenzene	9.776	92	123004	47.63	ug/L	100
114) 1,2-dibromo-3-chloropr...	10.575	157	31776	54.63	ug/L	98
115) 1,3,5-trichlorobenzene	10.761	180	109196	50.47	ug/L	99
116) 1,2,4-trichlorobenzene	11.393	180	103536	52.25	ug/L	98
117) hexachlorobutadiene	11.531	225	38448	49.48	ug/L	97
118) naphthalene	11.656	128	318284	53.56	ug/L	99
119) 1,2,3-trichlorobenzene	11.878	180	93298	51.09	ug/L	98
120) hexachloroethane	10.075	119	45908	51.14	ug/L	96
121) benzyl chloride	9.564	91	128719	31.36	ug/L	98
122) 2-ethylhexyl acrylate	11.573	70	12310	9.81	ug/L	98
123) 2-methylnaphthalene	12.789	142	69064	24.61	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311765.d
Acq On : 8 May 2019 8:43 pm
Operator : deving
Sample : JC87593-2msd Inst : GCMSL
Misc : MS34567,VL9062,5,,,,10
ALS Vial : 59 Sample Multiplier: 1

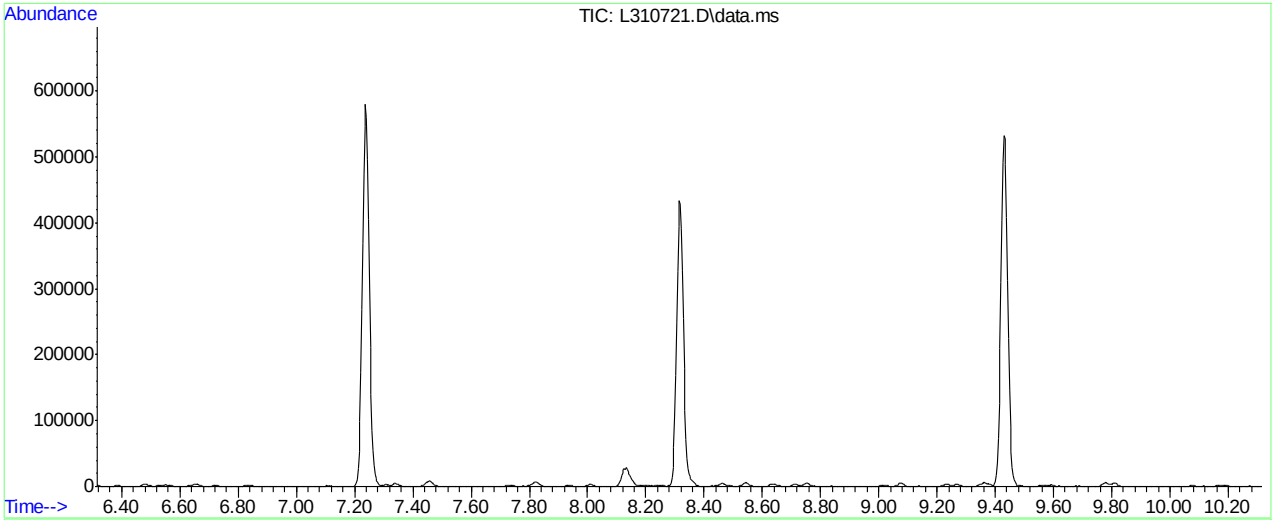
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 10 01:35:46 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

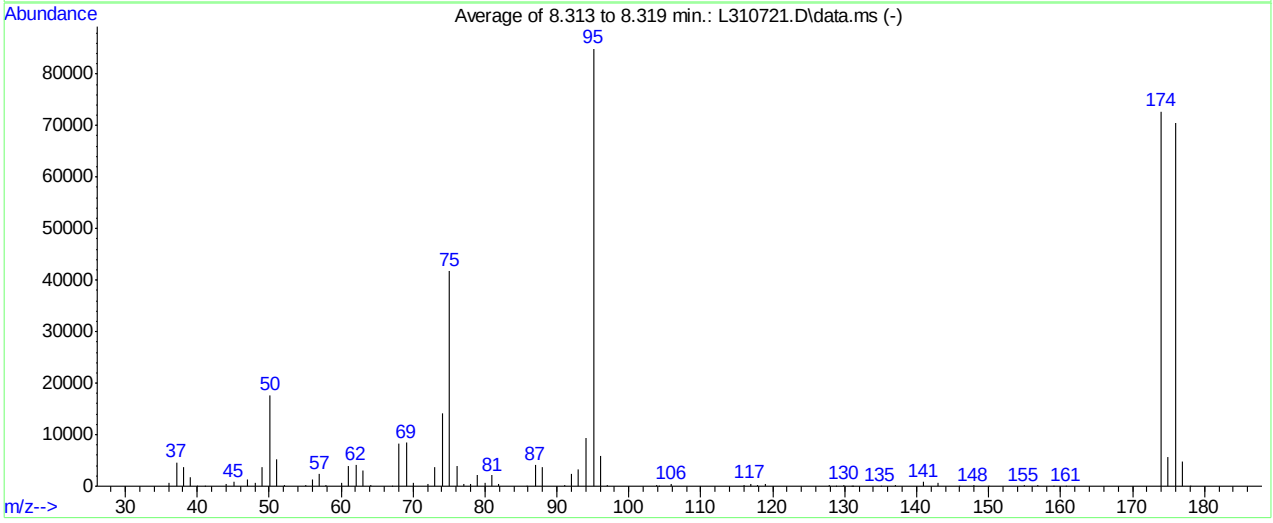


SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VL9011\L310721.D Vial: 1
Acq On : 3 Apr 2019 5:18 pm Operator: juntaep
Sample : bfb Inst : GCMSL
Misc : MS33381,VL9011,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\ML9011.M (RTE Integrator)
Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um





AutoFind: Scans 2127, 2128, 2129; Background Corrected with Scan 2114

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	17736	PASS
75	95	30	60	49.1	41733	PASS
95	95	100	100	100.0	84957	PASS
96	95	5	9	7.0	5939	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.6	72739	PASS
175	174	5	9	7.7	5566	PASS
176	174	95	101	96.8	70429	PASS
177	176	5	9	6.8	4796	PASS

L310721.D ML9011.M Thu Apr 04 11:28:12 2019 1

Average of 8.313 to 8.319 min.: L310721.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	760	50.10	17736	64.05	325	78.05	339
37.10	4658	51.10	5238	67.00	82	78.95	2209
38.10	3779	52.05	229	68.00	8252	80.00	590
39.05	1702	55.05	277	69.05	8484	81.00	2129
40.00	35	56.00	1232	70.05	641	81.95	435
41.00	44	57.00	2370	72.10	533	85.85	74
44.00	413	57.95	122	73.05	3755	87.00	4051
45.05	809	60.00	729	74.10	14234	88.00	3752
47.05	1350	61.05	4005	75.10	41733	91.00	302
48.00	561	62.05	4060	76.05	3817	92.00	2509
49.05	3691	63.05	2964	77.00	550	93.00	3223

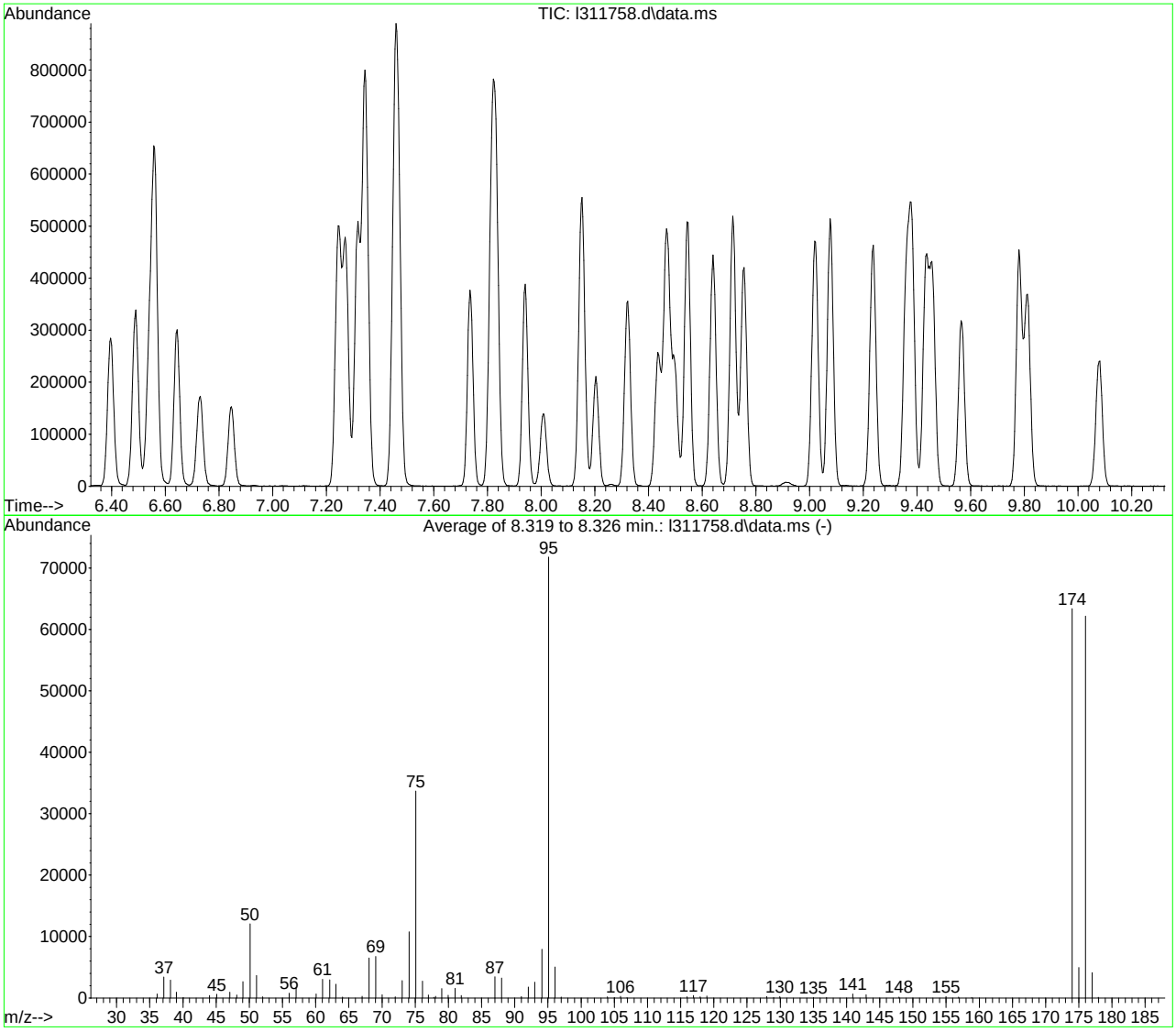
Average of 8.313 to 8.319 min.: L310721.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	9390	127.90	264	149.90	50		
95.05	84957	128.85	107	154.95	190		
96.00	5939	129.90	272	156.90	148		
96.95	208	130.90	83	159.00	40		
103.90	263	131.10	61	160.80	46		
104.10	66	134.95	110	174.00	72739		
105.95	372	137.05	128	174.95	5566		
115.95	235	140.95	782	176.00	70429		
116.90	526	142.95	624	176.90	4796		
117.95	319	145.85	73	178.00	41		
118.95	405	147.95	181				

SW-846 Method 8260

Data File : C:\msdchem\1\data\ni...0-19\vl9062\l311758.d Vial: 52
Acq On : 8 May 2019 5:00 pm Operator: deving
Sample : bfb Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\ML9011.M (RTE Integrator)
Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um



AutoFind: Scans 2129, 2130, 2131; Background Corrected with Scan 2115

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	12054	PASS
75	95	30	60	46.9	33680	PASS
95	95	100	100	100.0	71784	PASS
96	95	5	9	7.0	5055	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.3	63408	PASS
175	174	5	9	7.8	4943	PASS
176	174	95	101	98.1	62195	PASS
177	176	5	9	6.6	4115	PASS

l311758.d ML9011.M Fri May 10 01:23:35 2019

Average of 8.319 to 8.326 min.: l311758.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	671	51.10	3663	69.05	6739	79.95	454
37.10	3393	52.00	193	70.00	514	81.00	1587
38.10	2919	56.00	757	72.00	207	81.95	398
39.00	934	57.05	1667	73.05	2812	87.00	3435
40.05	47	60.05	644	74.10	10784	88.00	3256
44.00	418	61.05	3016	75.10	33680	91.00	225
45.10	590	62.10	2970	76.10	2754	92.05	1779
47.05	948	63.05	2230	77.00	474	93.00	2568
48.10	477	64.05	163	77.80	91	94.10	7945
49.05	2644	67.00	266	78.05	260	95.10	71784
50.10	12054	68.05	6493	79.00	1525	96.05	5055

Average of 8.319 to 8.326 min.: l311758.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	146	129.95	227	176.00	62195		
103.95	208	135.00	71	177.00	4115		
105.00	81	137.00	44	177.95	98		
105.95	290	140.95	643				
106.90	38	142.95	515				
115.95	208	147.90	169				
116.95	405	155.00	245				
117.95	202	156.90	132				
118.95	311	158.85	75				
127.95	225	174.00	63408				
129.00	48	175.00	4943				

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310722.D
Acq On : 3 Apr 2019 6:05 pm
Operator : juntaep
Sample : ic9011-0.2
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 04 11:18:54 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.057	65	208291	500.00	ug/L		0.00
5) pentafluorobenzene	4.273	168	265513	50.00	ug/L		0.00
52) 1,4-difluorobenzene	4.844	114	349691	50.00	ug/L		0.00
73) chlorobenzene-d5	7.238	117	285400	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.429	152	132544	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.286	113	104430	45.78	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.56%				
53) 1,2-dichloroethane-d4 (s)	4.536	65	120731	53.80	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 107.60%				
74) toluene-d8 (s)	5.990	98	396947	53.87	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 107.74%				
97) 4-bromofluorobenzene (s)	8.316	95	136594	47.63	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.26%				
Target Compounds							Qvalue
7) dichlorodifluoromethane	1.641	85	834	0.18	ug/L		72
9) vinyl chloride	1.879	62	875	0.22	ug/L		90
11) chloroethane	2.216	64	408	0.20	ug/L		74
13) trichlorofluoromethane	2.396	101	744	0.17	ug/L		70
17) freon 113	2.749	151	384	0.20	ug/L	#	77
18) 1,1-dichloroethene	2.758	96	486	0.21	ug/L		94
26) methyl tert butyl ether	3.246	73	1514	0.19	ug/L		93
29) di-isopropyl ether	3.560	45	1826	0.21	ug/L		81
30) ethyl tert-butyl ether	3.807	59	1811	0.22	ug/L		84
32) 1,1-dichloroethane	3.570	63	894	0.20	ug/L		89
33) chloroprene	3.612	53	916	0.22	ug/L		91
46) 1,1,1-trichloroethane	4.308	97	657	0.19	ug/L	#	1
49) carbon tetrachloride	4.427	117	615	0.22	ug/L	#	57
54) tert-amyl methyl ether	4.623	73	1456	0.23	ug/L		93
55) 2,2,4-trimethylpentane	4.632	57	1326	0.26	ug/L		74
57) benzene	4.568	78	2213	0.27	ug/L		90
63) 2-chloroethyl vinyl ether	5.617	63	1734	1.00	ug/L		87
65) 1,2-dichloropropane	5.232	63	409	0.18	ug/L	#	41
68) bromodichloromethane	5.422	83	612	0.21	ug/L	#	63
71) 4-methyl-2-pentanone	5.861	58	1039	0.80	ug/L		97
75) toluene	6.047	92	1147	0.25	ug/L		94
77) ethyl methacrylate	6.230	69	610	0.19	ug/L		66
78) 1,1,2-trichloroethane	6.384	83	332	0.21	ug/L	#	70
79) 2-hexanone	6.554	58	1174	0.97	ug/L	#	62
80) tetrachloroethene	6.484	166	485	0.24	ug/L		68
83) dibromochloromethane	6.721	129	412	0.21	ug/L	#	58
84) 1,2-dibromoethane	6.837	107	600	0.24	ug/L		81
86) chlorobenzene	7.260	112	1320	0.27	ug/L		92
89) m,p-xylene	7.459	106	1657	0.53	ug/L		99
90) o-xylene	7.809	106	727	0.23	ug/L		96
91) butyl acrylate	7.735	55	919	0.18	ug/L		85
99) 1,1,2,2-tetrachloroethane	8.428	83	556	0.18	ug/L		75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310722.D
Acq On : 3 Apr 2019 6:05 pm
Operator : juntaep
Sample : ic9011-0.2
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 04 11:18:54 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

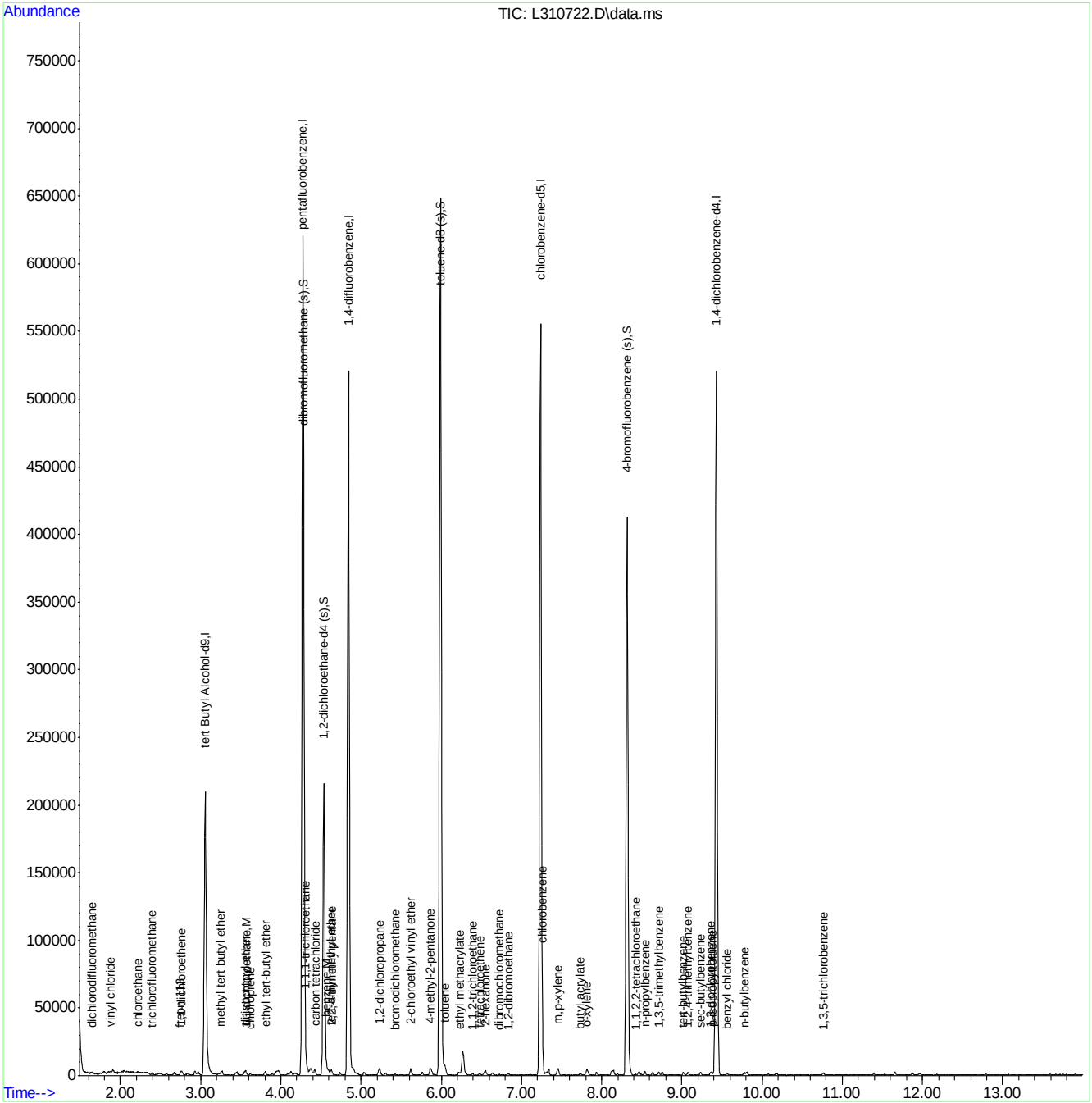
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
102) n-propylbenzene	8.541	91	2285	0.24	ug/L		89
105) 1,3,5-trimethylbenzene	8.711	105	1493	0.23	ug/L		93
106) tert-butylbenzene	9.019	119	1332	0.23	ug/L		79
107) 1,2,4-trimethylbenzene	9.076	105	1434	0.22	ug/L		88
108) sec-butylbenzene	9.234	105	1917	0.24	ug/L		88
109) 1,3-dichlorobenzene	9.362	146	975	0.25	ug/L		77
110) p-isopropyltoluene	9.375	119	1477	0.23	ug/L		75
113) n-butylbenzene	9.776	92	780	0.24	ug/L		79
115) 1,3,5-trichlorobenzene	10.771	180	612	0.23	ug/L	#	50
121) benzyl chloride	9.564	91	1120	0.21	ug/L		78

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310722.D
Acq On : 3 Apr 2019 6:05 pm
Operator : juntaep
Sample : ic9011-0.2
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 04 11:18:54 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310723.D
Acq On : 3 Apr 2019 6:32 pm
Operator : juntaep
Sample : ic9011-0.5
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 04 11:08:02 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.056	65	203974	500.00	ug/L		0.00
5) pentafluorobenzene	4.273	168	264840	50.00	ug/L		0.00
52) 1,4-difluorobenzene	4.841	114	347526	50.00	ug/L		0.00
73) chlorobenzene-d5	7.238	117	283262	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.429	152	131713	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.282	113	102992	45.26	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.52%				
53) 1,2-dichloroethane-d4 (s)	4.536	65	119002	53.36	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 106.72%				
74) toluene-d8 (s)	5.989	98	396608	54.23	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 108.46%				
97) 4-bromofluorobenzene (s)	8.316	95	134757	47.29	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.58%				
Target Compounds							Qvalue
7) dichlorodifluoromethane	1.638	85	1732	0.37	ug/L		89
8) chloromethane	1.792	50	1950	0.46	ug/L		90
9) vinyl chloride	1.882	62	1572	0.39	ug/L		96
11) chloroethane	2.213	64	972	0.49	ug/L		85
12) vinyl bromide	2.344	106	822	0.44	ug/L		91
13) trichlorofluoromethane	2.392	101	1855	0.43	ug/L		93
14) ethyl ether	2.572	74	785	0.47	ug/L		80
15) 2-chloropropane	2.671	43	2300	0.48	ug/L		87
17) freon 113	2.752	151	874	0.46	ug/L		85
18) 1,1-dichloroethene	2.758	96	1226	0.52	ug/L	#	82
19) acetone	2.768	58	771	2.13	ug/L	#	80
24) methylene chloride	3.089	84	1141	0.47	ug/L	#	67
26) methyl tert butyl ether	3.252	73	3436	0.44	ug/L		92
27) trans-1,2-dichloroethene	3.268	96	1013	0.43	ug/L		93
28) hexane	3.445	57	1839	0.49	ug/L		92
29) di-isopropyl ether	3.557	45	4260	0.49	ug/L		94
30) ethyl tert-butyl ether	3.801	59	3868	0.47	ug/L		99
31) 2-butanone	3.923	72	890	1.83	ug/L		92
32) 1,1-dichloroethane	3.563	63	2145	0.47	ug/L		92
33) chloroprene	3.612	53	1887	0.46	ug/L		91
37) 2,2-dichloropropane	3.961	77	1758	0.51	ug/L		79
38) cis-1,2-dichloroethene	3.952	96	1206	0.47	ug/L	#	75
39) propionitrile	3.974	54	2870	5.03	ug/L		98
41) bromochloromethane	4.112	128	573	0.50	ug/L		94
43) chloroform	4.173	83	2355	0.57	ug/L		86
45) methacrylonitrile	4.074	67	634	0.43	ug/L	#	48
46) 1,1,1-trichloroethane	4.314	97	1612	0.46	ug/L		89
47) cyclohexane	4.372	84	1444	0.46	ug/L		88
48) 1,1-dichloropropene	4.417	75	1490	0.45	ug/L		89
49) carbon tetrachloride	4.420	117	1468	0.51	ug/L	#	72
54) tert-amyl methyl ether	4.629	73	3492	0.55	ug/L		94
55) 2,2,4-trimethylpentane	4.632	57	2992	0.59	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310723.D
Acq On : 3 Apr 2019 6:32 pm
Operator : juntaep
Sample : ic9011-0.5
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 04 11:08:02 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) n-butyl alcohol	4.898	56	2784	23.03	ug/L		99
57) benzene	4.568	78	4387	0.55	ug/L		91
58) heptane	4.744	57	566	0.45	ug/L	#	60
60) trichloroethene	5.030	95	1057	0.49	ug/L		84
61) ethyl acrylate	5.052	55	1866	0.47	ug/L		98
63) 2-chloroethyl vinyl ether	5.617	63	4470	2.60	ug/L		91
65) 1,2-dichloropropane	5.235	63	1145	0.52	ug/L		97
66) methylcyclohexane	5.222	83	2134	0.67	ug/L		76
67) dibromomethane	5.300	93	571	0.44	ug/L		88
68) bromodichloromethane	5.425	83	1393	0.49	ug/L		70
69) cis-1,3-dichloropropene	5.765	75	1830	0.51	ug/L		85
71) 4-methyl-2-pentanone	5.861	58	2577	2.01	ug/L		91
75) toluene	6.047	92	2480	0.53	ug/L		96
76) trans-1,3-dichloropropene	6.214	75	1569	0.52	ug/L		84
77) ethyl methacrylate	6.237	69	1613	0.50	ug/L		97
78) 1,1,2-trichloroethane	6.387	83	845	0.53	ug/L		85
79) 2-hexanone	6.548	58	2555	2.12	ug/L		93
80) tetrachloroethene	6.474	166	1135	0.56	ug/L		86
81) 1,3-dichloropropane	6.529	76	1849	0.60	ug/L		88
82) butyl acetate	6.634	56	1069	0.54	ug/L	#	66
83) dibromochloromethane	6.724	129	982	0.51	ug/L		75
84) 1,2-dibromoethane	6.837	107	1298	0.53	ug/L		93
85) n-butyl ether	7.308	57	4092	0.51	ug/L		97
86) chlorobenzene	7.267	112	2768	0.56	ug/L		88
87) 1,1,1,2-tetrachloroethane	7.334	131	799	0.49	ug/L		91
88) ethylbenzene	7.340	91	4828	0.59	ug/L		93
89) m,p-xylene	7.453	106	3538	1.14	ug/L		99
90) o-xylene	7.812	106	1866	0.59	ug/L	#	77
91) butyl acrylate	7.729	55	2457	0.48	ug/L		87
92) styrene	7.825	104	2798	0.54	ug/L		94
93) bromoform	7.998	173	656	0.48	ug/L		93
94) isopropylbenzene	8.146	105	4489	0.57	ug/L		94
98) bromobenzene	8.463	156	1080	0.48	ug/L	#	77
99) 1,1,2,2-tetrachloroethane	8.431	83	1323	0.43	ug/L		88
101) 1,2,3-trichloropropane	8.499	110	414	0.50	ug/L	#	33
102) n-propylbenzene	8.544	91	4794	0.50	ug/L		96
103) 2-chlorotoluene	8.634	126	1005	0.50	ug/L	#	62
104) 4-chlorotoluene	8.759	126	859	0.44	ug/L	#	72
105) 1,3,5-trimethylbenzene	8.714	105	3139	0.48	ug/L		98
106) tert-butylbenzene	9.015	119	2776	0.49	ug/L		87
107) 1,2,4-trimethylbenzene	9.073	105	3340	0.51	ug/L		99
108) sec-butylbenzene	9.234	105	3919	0.50	ug/L		87
109) 1,3-dichlorobenzene	9.362	146	2015	0.53	ug/L		81
110) p-isopropyltoluene	9.378	119	3277	0.52	ug/L		91
111) 1,4-dichlorobenzene	9.452	146	1827	0.51	ug/L		84
112) 1,2-dichlorobenzene	9.808	146	1843	0.51	ug/L		92
113) n-butylbenzene	9.779	92	1449	0.45	ug/L		88
115) 1,3,5-trichlorobenzene	10.758	180	1240	0.47	ug/L		83
116) 1,2,4-trichlorobenzene	11.393	180	1305	0.53	ug/L		97
117) hexachlorobutadiene	11.528	225	444	0.46	ug/L		84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310723.D
Acq On : 3 Apr 2019 6:32 pm
Operator : juntaep
Sample : ic9011-0.5
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 04 11:08:02 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

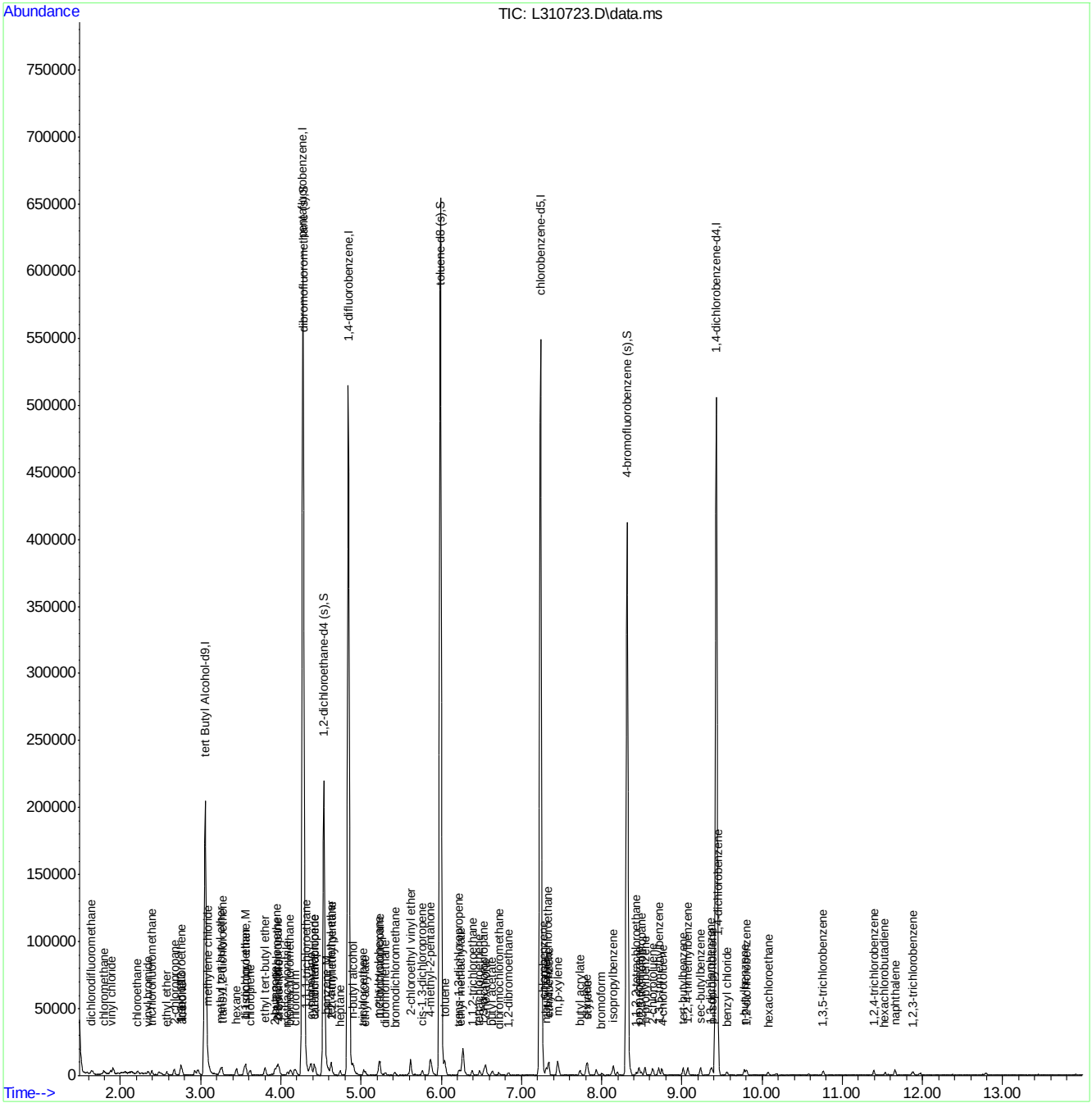
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118) naphthalene	11.656	128	3446	0.44	ug/L	94
119) 1,2,3-trichlorobenzene	11.875	180	1076	0.48	ug/L	72
120) hexachloroethane	10.078	119	488	0.42	ug/L	91
121) benzyl chloride	9.558	91	2357	0.45	ug/L	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310723.D
Acq On : 3 Apr 2019 6:32 pm
Operator : juntaep
Sample : ic9011-0.5
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 04 11:08:02 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310724.D
Acq On : 3 Apr 2019 6:59 pm
Operator : juntaep
Sample : ic9011-1
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 04 11:19:02 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.057	65	195043	500.00	ug/L		0.00
5) pentafluorobenzene	4.276	168	260336	50.00	ug/L		0.00
52) 1,4-difluorobenzene	4.844	114	346558	50.00	ug/L		0.00
73) chlorobenzene-d5	7.238	117	280423	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.433	152	127740	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.286	113	101217	45.25	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.50%				
53) 1,2-dichloroethane-d4 (s)	4.539	65	114977	51.70	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 103.40%				
74) toluene-d8 (s)	5.989	98	394713	54.52	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.04%				
97) 4-bromofluorobenzene (s)	8.316	95	131512	47.59	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.18%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.280	88	1090	28.22	ug/L		81
3) ethanol	2.485	45	5429	107.39	ug/L		95
4) tertiary butyl alcohol	3.114	59	2545	5.47	ug/L		82
7) dichlorodifluoromethane	1.638	85	3615	0.79	ug/L		88
8) chloromethane	1.792	50	3626	0.88	ug/L		95
9) vinyl chloride	1.879	62	3509	0.89	ug/L		84
10) bromomethane	2.136	94	1142	0.94	ug/L	#	69
11) chloroethane	2.209	64	1805	0.92	ug/L		89
12) vinyl bromide	2.347	106	1410	0.76	ug/L		98
13) trichlorofluoromethane	2.389	101	3676	0.87	ug/L		83
14) ethyl ether	2.578	74	1142	0.70	ug/L	#	76
15) 2-chloropropane	2.668	43	4261	0.90	ug/L		98
17) freon 113	2.752	151	1598	0.86	ug/L		86
18) 1,1-dichloroethene	2.761	96	2070	0.89	ug/L	#	77
19) acetone	2.768	58	1364	3.84	ug/L	#	64
20) acetonitrile	2.963	40	2864	9.74	ug/L		82
21) iodomethane	2.867	142	327	0.31	ug/L	#	44
23) carbon disulfide	2.928	76	6103	0.99	ug/L		99
24) methylene chloride	3.082	84	2221	0.93	ug/L		84
26) methyl tert butyl ether	3.252	73	6942	0.90	ug/L		93
27) trans-1,2-dichloroethene	3.275	96	2215	0.95	ug/L		78
28) hexane	3.445	57	3121	0.85	ug/L		94
29) di-isopropyl ether	3.557	45	8115	0.94	ug/L		100
30) ethyl tert-butyl ether	3.804	59	7695	0.94	ug/L		95
31) 2-butanone	3.923	72	1705	3.56	ug/L		95
32) 1,1-dichloroethane	3.564	63	4143	0.93	ug/L		92
33) chloroprene	3.618	53	3497	0.87	ug/L		97
37) 2,2-dichloropropane	3.965	77	3313	0.98	ug/L		89
38) cis-1,2-dichloroethene	3.952	96	2504	1.00	ug/L	#	80
39) propionitrile	3.971	54	5653	10.08	ug/L		82
41) bromochloromethane	4.122	128	1003	0.89	ug/L	#	72
43) chloroform	4.173	83	4264	1.05	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310724.D
Acq On : 3 Apr 2019 6:59 pm
Operator : juntaep
Sample : ic9011-1
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 04 11:19:02 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) methacrylonitrile	4.077	67	1315	0.90	ug/L	#	67
46) 1,1,1-trichloroethane	4.314	97	3132	0.90	ug/L	#	66
47) cyclohexane	4.372	84	3284	1.06	ug/L		98
48) 1,1-dichloropropene	4.424	75	2810	0.87	ug/L		93
49) carbon tetrachloride	4.420	117	2628	0.94	ug/L	#	77
51) tert amyl alcohol	4.510	55	745	4.10	ug/L	#	52
54) tert-amyl methyl ether	4.626	73	6788	1.07	ug/L		97
55) 2,2,4-trimethylpentane	4.629	57	5263	1.04	ug/L		96
56) n-butyl alcohol	4.902	56	5672	47.05	ug/L		85
57) benzene	4.571	78	8172	1.02	ug/L		96
58) heptane	4.741	57	1160	0.93	ug/L		91
59) 1,2-dichloroethane	4.594	62	3466	1.24	ug/L		88
60) trichloroethene	5.033	95	2184	1.02	ug/L	#	74
61) ethyl acrylate	5.056	55	3406	0.86	ug/L		94
63) 2-chloroethyl vinyl ether	5.617	63	9043	5.27	ug/L		92
65) 1,2-dichloropropane	5.235	63	2173	0.98	ug/L		90
66) methylcyclohexane	5.226	83	3450	1.08	ug/L		90
67) dibromomethane	5.300	93	1474	1.13	ug/L		80
68) bromodichloromethane	5.425	83	2606	0.92	ug/L		91
69) cis-1,3-dichloropropene	5.762	75	3581	1.00	ug/L		96
70) epichlorohydrin	5.678	57	1602	4.32	ug/L		95
71) 4-methyl-2-pentanone	5.864	58	5021	3.92	ug/L	#	85
72) 3-methyl-1-butanol	5.877	70	1774	17.03	ug/L		90
75) toluene	6.047	92	5068	1.10	ug/L		93
76) trans-1,3-dichloropropene	6.217	75	3050	1.01	ug/L		93
77) ethyl methacrylate	6.233	69	3285	1.04	ug/L		94
78) 1,1,2-trichloroethane	6.387	83	1479	0.93	ug/L		89
79) 2-hexanone	6.551	58	4884	4.10	ug/L		95
80) tetrachloroethene	6.480	166	2195	1.09	ug/L		98
81) 1,3-dichloropropane	6.532	76	3218	1.06	ug/L		98
82) butyl acetate	6.634	56	2096	1.08	ug/L	#	72
83) dibromochloromethane	6.721	129	1924	1.02	ug/L		98
84) 1,2-dibromoethane	6.837	107	2656	1.09	ug/L		97
85) n-butyl ether	7.308	57	7840	0.99	ug/L		95
86) chlorobenzene	7.263	112	5323	1.09	ug/L		95
87) 1,1,1,2-tetrachloroethane	7.337	131	1845	1.14	ug/L		86
88) ethylbenzene	7.344	91	8859	1.10	ug/L		97
89) m,p-xylene	7.456	106	6933	2.25	ug/L		87
90) o-xylene	7.809	106	3192	1.02	ug/L		93
91) butyl acrylate	7.729	55	4531	0.89	ug/L		94
92) styrene	7.825	104	5299	1.03	ug/L		98
93) bromoform	7.998	173	1396	1.03	ug/L		81
94) isopropylbenzene	8.146	105	8425	1.08	ug/L		99
95) cis-1,4-dichloro-2-butene	8.200	88	953	0.93	ug/L	#	89
98) bromobenzene	8.460	156	2115	0.97	ug/L		86
99) 1,1,2,2-tetrachloroethane	8.431	83	2766	0.93	ug/L		98
100) trans-1,4-dichloro-2-b...	8.467	53	865	0.99	ug/L		83
101) 1,2,3-trichloropropane	8.499	110	816	1.01	ug/L		76
102) n-propylbenzene	8.541	91	9170	0.98	ug/L		90
103) 2-chlorotoluene	8.637	126	1930	1.00	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310724.D
Acq On : 3 Apr 2019 6:59 pm
Operator : juntaep
Sample : ic9011-1
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 04 11:19:02 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

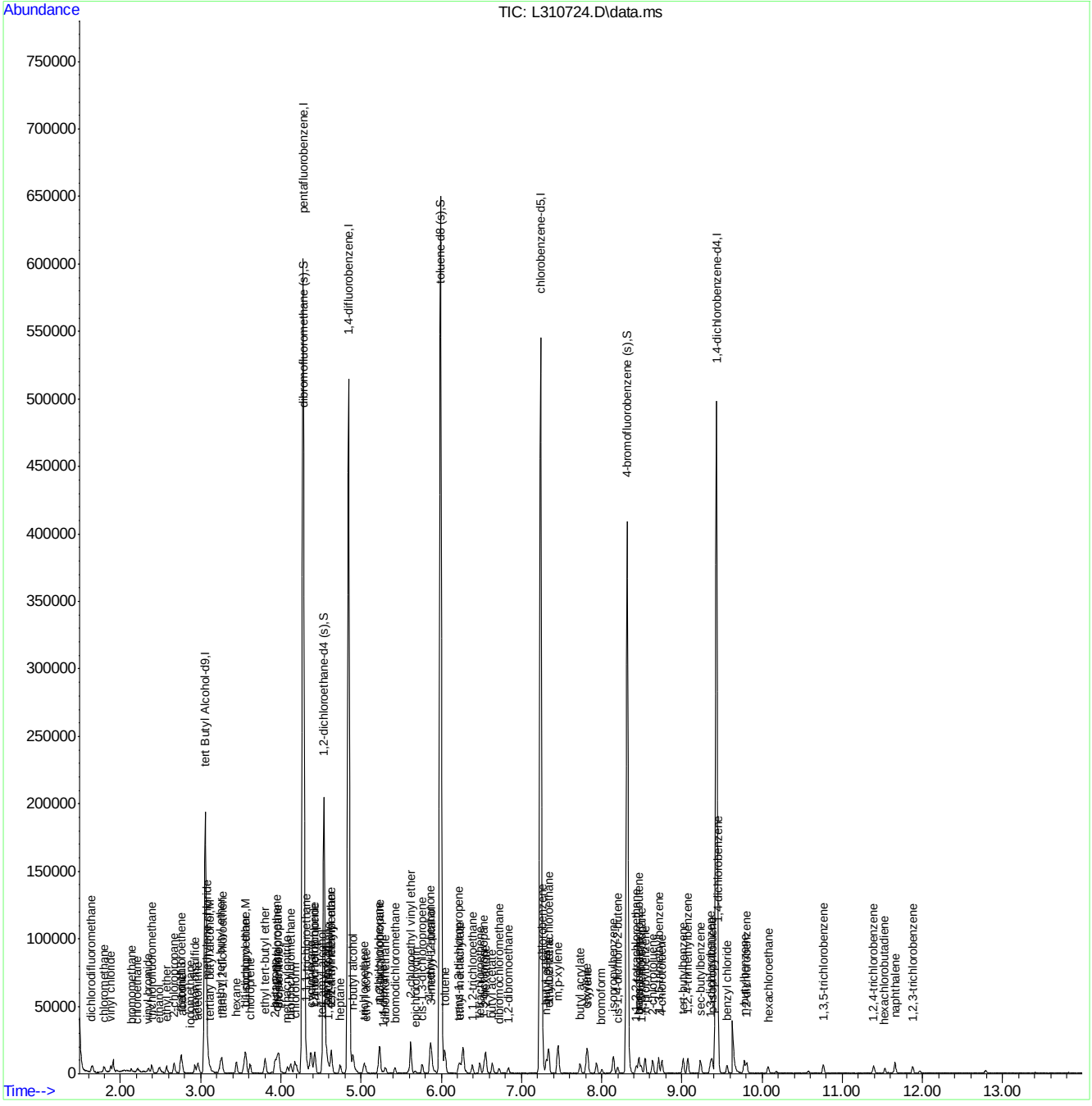
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 4-chlorotoluene	8.749	126	1829	0.97 ug/L #	82
105) 1,3,5-trimethylbenzene	8.711	105	6049	0.95 ug/L	92
106) tert-butylbenzene	9.019	119	5361	0.98 ug/L	98
107) 1,2,4-trimethylbenzene	9.076	105	6246	0.98 ug/L	90
108) sec-butylbenzene	9.234	105	7487	0.98 ug/L	92
109) 1,3-dichlorobenzene	9.356	146	3661	0.99 ug/L	83
110) p-isopropyltoluene	9.378	119	6083	1.00 ug/L	91
111) 1,4-dichlorobenzene	9.452	146	3620	1.03 ug/L	81
112) 1,2-dichlorobenzene	9.805	146	3464	1.00 ug/L	87
113) n-butylbenzene	9.779	92	2826	0.90 ug/L	98
115) 1,3,5-trichlorobenzene	10.764	180	2420	0.95 ug/L	83
116) 1,2,4-trichlorobenzene	11.390	180	2357	0.99 ug/L	89
117) hexachlorobutadiene	11.525	225	878	0.94 ug/L	88
118) naphthalene	11.660	128	6285	0.83 ug/L	95
119) 1,2,3-trichlorobenzene	11.881	180	2273	1.04 ug/L	78
120) hexachloroethane	10.074	119	1006	0.90 ug/L	96
121) benzyl chloride	9.564	91	4539	0.89 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310724.D
Acq On : 3 Apr 2019 6:59 pm
Operator : juntaep
Sample : ic9011-1
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 04 11:19:02 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310725.D
Acq On : 3 Apr 2019 7:26 pm
Operator : juntaep
Sample : ic9011-2
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 04 11:12:31 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:00:57 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.056	65	210118	500.00	ug/L		0.00
5) pentafluorobenzene	4.276	168	256440	50.00	ug/L		0.00
52) 1,4-difluorobenzene	4.844	114	348380	50.00	ug/L		0.00
73) chlorobenzene-d5	7.238	117	287834	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.432	152	133781	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.285	113	103415	49.21	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.42%				
53) 1,2-dichloroethane-d4 (s)	4.536	65	121534	52.22	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 104.44%				
74) toluene-d8 (s)	5.989	98	397639	51.37	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.74%				
97) 4-bromofluorobenzene (s)	8.316	95	138261	49.02	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.04%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.277	88	1960	46.84	ug/L		97
3) ethanol	2.488	45	10150	191.46	ug/L		91
4) tertiary butyl alcohol	3.117	59	4899	9.73	ug/L		97
6) chlorodifluoromethane	1.654	51	5709	1.75	ug/L		97
7) dichlorodifluoromethane	1.635	85	7295	1.82	ug/L		89
8) chloromethane	1.792	50	6791	1.82	ug/L		95
9) vinyl chloride	1.879	62	6643	1.83	ug/L		95
10) bromomethane	2.132	94	2073	1.84	ug/L		99
11) chloroethane	2.209	64	3328	1.82	ug/L		91
12) vinyl bromide	2.347	106	3210	1.95	ug/L		96
13) trichlorofluoromethane	2.392	101	7461	1.95	ug/L		95
14) ethyl ether	2.575	74	2695	1.85	ug/L		96
15) 2-chloropropane	2.668	43	8362	1.91	ug/L		99
16) acrolein	2.678	56	1031	1.94	ug/L		82
17) freon 113	2.748	151	3402	1.96	ug/L		91
18) 1,1-dichloroethene	2.758	96	4034	1.84	ug/L		90
19) acetone	2.771	58	2845	8.29	ug/L	#	66
20) acetonitrile	2.966	40	6000	22.41	ug/L		92
21) iodomethane	2.873	142	584	0.80	ug/L	#	44
23) carbon disulfide	2.928	76	11352	1.93	ug/L		96
24) methylene chloride	3.088	84	4417	1.97	ug/L		91
25) methyl acetate	2.973	74	979	1.72	ug/L	#	46
26) methyl tert butyl ether	3.249	73	14189	2.00	ug/L		89
27) trans-1,2-dichloroethene	3.271	96	4364	2.00	ug/L		93
28) hexane	3.451	57	6397	1.89	ug/L		90
29) di-isopropyl ether	3.560	45	16314	1.99	ug/L		98
30) ethyl tert-butyl ether	3.804	59	15043	1.93	ug/L		96
31) 2-butanone	3.929	72	3309	7.64	ug/L	#	76
32) 1,1-dichloroethane	3.567	63	8228	1.97	ug/L		96
33) chloroprene	3.615	53	7127	1.88	ug/L		95
37) 2,2-dichloropropane	3.964	77	6681	2.03	ug/L		92
38) cis-1,2-dichloroethene	3.948	96	4794	2.00	ug/L	#	73

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310725.D
Acq On : 3 Apr 2019 7:26 pm
Operator : juntaep
Sample : ic9011-2
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 04 11:12:31 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:00:57 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) propionitrile	3.977	54	10799	20.21	ug/L		93
40) methyl acrylate	3.977	85	885	1.83	ug/L	#	65
41) bromochloromethane	4.125	128	2332	2.15	ug/L	#	66
42) tetrahydrofuran	4.131	72	1026	2.06	ug/L		93
43) chloroform	4.170	83	7902	1.98	ug/L		92
45) methacrylonitrile	4.080	67	2770	2.07	ug/L		86
46) 1,1,1-trichloroethane	4.314	97	6052	1.89	ug/L		89
47) cyclohexane	4.372	84	5910	1.97	ug/L		96
48) 1,1-dichloropropene	4.420	75	5766	1.92	ug/L		96
49) carbon tetrachloride	4.423	117	4970	1.85	ug/L		84
50) isopropyl acetate	4.536	87	1217	1.85	ug/L	#	43
51) tert amyl alcohol	4.523	55	1703	10.29	ug/L	#	81
54) tert-amyl methyl ether	4.629	73	13348	2.05	ug/L		95
55) 2,2,4-trimethylpentane	4.629	57	10748	2.03	ug/L		91
56) n-butyl alcohol	4.905	56	11208	99.89	ug/L		99
57) benzene	4.568	78	16440	2.03	ug/L		94
58) heptane	4.741	57	2308	1.90	ug/L		88
59) 1,2-dichloroethane	4.593	62	6464	2.20	ug/L		98
60) trichloroethene	5.033	95	3989	1.90	ug/L		96
61) ethyl acrylate	5.059	55	7470	2.01	ug/L		97
63) 2-chloroethyl vinyl ether	5.620	63	17582	10.23	ug/L		98
64) methyl methacrylate	5.235	100	1395	1.95	ug/L	#	85
65) 1,2-dichloropropane	5.235	63	4325	1.99	ug/L		98
66) methylcyclohexane	5.226	83	6535	1.96	ug/L		95
67) dibromomethane	5.303	93	2597	1.99	ug/L		95
68) bromodichloromethane	5.424	83	5308	1.92	ug/L		91
69) cis-1,3-dichloropropene	5.765	75	7023	2.01	ug/L		92
70) epichlorohydrin	5.672	57	3433	9.92	ug/L		93
71) 4-methyl-2-pentanone	5.864	58	10289	8.22	ug/L		97
72) 3-methyl-1-butanol	5.883	70	3984	40.84	ug/L	#	81
75) toluene	6.047	92	9927	2.02	ug/L		98
76) trans-1,3-dichloropropene	6.214	75	6063	1.98	ug/L		87
77) ethyl methacrylate	6.236	69	6222	1.97	ug/L		89
78) 1,1,2-trichloroethane	6.384	83	3211	1.98	ug/L		87
79) 2-hexanone	6.551	58	9835	7.95	ug/L		98
80) tetrachloroethene	6.477	166	4246	1.98	ug/L		94
81) 1,3-dichloropropane	6.535	76	6401	1.97	ug/L		92
82) butyl acetate	6.634	56	4068	2.04	ug/L		97
83) dibromochloromethane	6.718	129	3748	1.92	ug/L		85
84) 1,2-dibromoethane	6.836	107	5283	2.03	ug/L		99
85) n-butyl ether	7.311	57	15776	2.00	ug/L		97
86) chlorobenzene	7.263	112	10412	1.98	ug/L		92
87) 1,1,1,2-tetrachloroethane	7.334	131	3477	2.07	ug/L		94
88) ethylbenzene	7.343	91	18247	2.12	ug/L		97
89) m,p-xylene	7.456	106	13024	3.90	ug/L		95
90) o-xylene	7.809	106	6747	2.04	ug/L		88
91) butyl acrylate	7.732	55	9392	1.94	ug/L		96
92) styrene	7.828	104	10928	2.05	ug/L		94
93) bromoform	8.004	173	2598	1.91	ug/L		89
94) isopropylbenzene	8.146	105	16368	2.02	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310725.D
Acq On : 3 Apr 2019 7:26 pm
Operator : juntaep
Sample : ic9011-2
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 04 11:12:31 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:00:57 2019
Response via : Initial Calibration

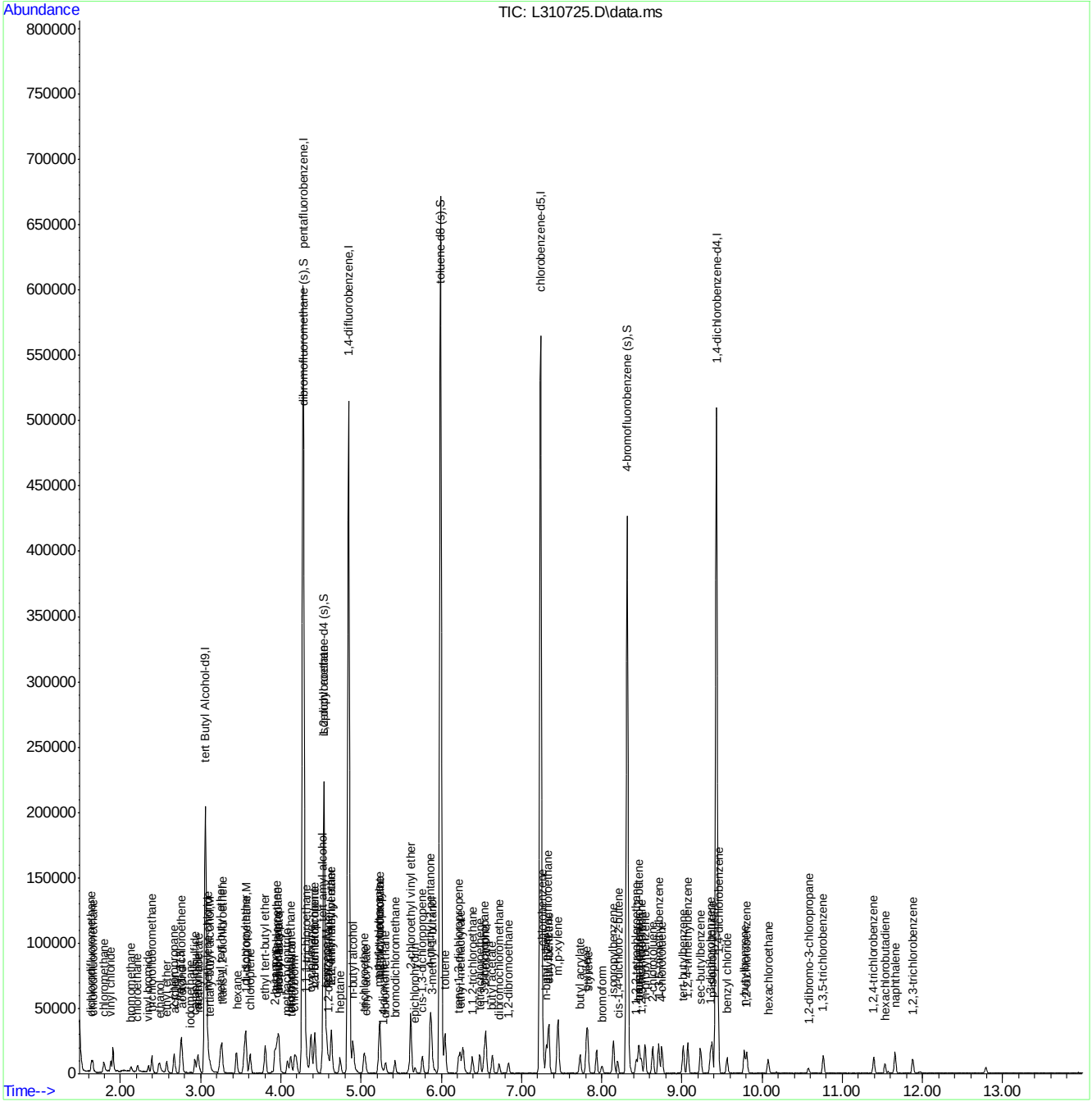
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) cis-1,4-dichloro-2-butene	8.207	88	1957	1.94	ug/L #	78
98) bromobenzene	8.460	156	4249	1.94	ug/L	99
99) 1,1,2,2-tetrachloroethane	8.431	83	5343	1.84	ug/L	92
100) trans-1,4-dichloro-2-b...	8.463	53	1568	1.81	ug/L #	73
101) 1,2,3-trichloropropane	8.492	110	1744	2.09	ug/L	74
102) n-propylbenzene	8.540	91	18572	1.92	ug/L	94
103) 2-chlorotoluene	8.633	126	3866	1.95	ug/L	87
104) 4-chlorotoluene	8.752	126	3789	1.98	ug/L	91
105) 1,3,5-trimethylbenzene	8.710	105	12385	1.91	ug/L	98
106) tert-butylbenzene	9.018	119	10254	1.82	ug/L	94
107) 1,2,4-trimethylbenzene	9.073	105	12112	1.85	ug/L	94
108) sec-butylbenzene	9.237	105	14819	1.87	ug/L	87
109) 1,3-dichlorobenzene	9.355	146	7332	1.87	ug/L	94
110) p-isopropyltoluene	9.378	119	11852	1.87	ug/L	95
111) 1,4-dichlorobenzene	9.455	146	6929	1.90	ug/L	94
112) 1,2-dichlorobenzene	9.808	146	6994	1.95	ug/L	91
113) n-butylbenzene	9.779	92	5459	1.75	ug/L	85
114) 1,2-dibromo-3-chloropr...	10.578	157	1125	1.60	ug/L	70
115) 1,3,5-trichlorobenzene	10.761	180	4745	1.82	ug/L	98
116) 1,2,4-trichlorobenzene	11.390	180	4105	1.72	ug/L	96
117) hexachlorobutadiene	11.537	225	1720	1.83	ug/L	87
118) naphthalene	11.656	128	12931	1.80	ug/L	99
119) 1,2,3-trichlorobenzene	11.878	180	4010	1.82	ug/L	95
120) hexachloroethane	10.074	119	1957	1.81	ug/L	85
121) benzyl chloride	9.564	91	8771	1.77	ug/L	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310725.D
Acq On : 3 Apr 2019 7:26 pm
Operator : juntaep
Sample : ic9011-2
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 04 11:12:31 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:00:57 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310726.D
Acq On : 3 Apr 2019 7:53 pm
Operator : juntaep
Sample : ic9011-4
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 04 11:12:51 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.056	65	187837	500.00	ug/L		0.00
5) pentafluorobenzene	4.276	168	245266	50.00	ug/L		0.00
52) 1,4-difluorobenzene	4.844	114	333573	50.00	ug/L		0.00
73) chlorobenzene-d5	7.238	117	276189	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.433	152	126498	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.285	113	98897	46.93	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.86%				
53) 1,2-dichloroethane-d4 (s)	4.536	65	112881	52.74	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 105.48%				
74) toluene-d8 (s)	5.989	98	377167	52.89	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.78%				
97) 4-bromofluorobenzene (s)	8.316	95	130388	47.64	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.28%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.274	88	3594	96.60	ug/L		96
3) ethanol	2.485	45	19485	400.21	ug/L		99
4) tertiary butyl alcohol	3.114	59	9373	20.92	ug/L		97
6) chlorodifluoromethane	1.654	51	11772	3.35	ug/L		94
7) dichlorodifluoromethane	1.638	85	14528	3.39	ug/L		94
8) chloromethane	1.795	50	13325	3.43	ug/L		97
9) vinyl chloride	1.882	62	12988	3.49	ug/L		99
10) bromomethane	2.132	94	4099	3.58	ug/L		88
11) chloroethane	2.212	64	6823	3.69	ug/L		95
12) vinyl bromide	2.350	106	5935	3.42	ug/L		88
13) trichlorofluoromethane	2.392	101	14529	3.63	ug/L		99
14) ethyl ether	2.572	74	5373	3.50	ug/L		82
15) 2-chloropropane	2.668	43	17115	3.83	ug/L		97
16) acrolein	2.678	56	2071	3.90	ug/L		72
17) freon 113	2.748	151	6762	3.88	ug/L		89
18) 1,1-dichloroethene	2.758	96	8131	3.73	ug/L		90
19) acetone	2.768	58	5324	15.91	ug/L	#	85
20) acetonitrile	2.963	40	9737	35.13	ug/L		95
21) iodomethane	2.870	142	1267	1.28	ug/L		81
22) iso-butyl alcohol	4.423	43	7205	38.26	ug/L		84
23) carbon disulfide	2.928	76	22017	3.80	ug/L		97
24) methylene chloride	3.089	84	8262	3.69	ug/L		97
25) methyl acetate	2.976	74	2100	3.54	ug/L	#	77
26) methyl tert butyl ether	3.252	73	27227	3.77	ug/L		98
27) trans-1,2-dichloroethene	3.268	96	8218	3.73	ug/L		94
28) hexane	3.448	57	12686	3.68	ug/L		93
29) di-isopropyl ether	3.557	45	31769	3.92	ug/L		95
30) ethyl tert-butyl ether	3.804	59	29556	3.84	ug/L		96
31) 2-butanone	3.929	72	6489	14.39	ug/L	#	84
32) 1,1-dichloroethane	3.567	63	16049	3.84	ug/L		98
33) chloroprene	3.618	53	14451	3.81	ug/L		98
34) acrylonitrile	3.233	53	4689	3.39	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310726.D
Acq On : 3 Apr 2019 7:53 pm
Operator : juntaep
Sample : ic9011-4
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 04 11:12:51 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) vinyl acetate	3.535	86	2226	3.56	ug/L	#	78
36) ethyl acetate	3.932	45	2170	3.50	ug/L	#	76
37) 2,2-dichloropropane	3.961	77	13088	4.12	ug/L		94
38) cis-1,2-dichloroethene	3.952	96	9310	3.95	ug/L		89
39) propionitrile	3.974	54	20700	39.19	ug/L		96
40) methyl acrylate	3.977	85	1929	4.00	ug/L	#	79
41) bromochloromethane	4.115	128	4215	3.99	ug/L		81
42) tetrahydrofuran	4.131	72	1976	4.12	ug/L	#	86
43) chloroform	4.173	83	14985	3.90	ug/L		99
45) methacrylonitrile	4.087	67	5061	3.69	ug/L		97
46) 1,1,1-trichloroethane	4.314	97	11649	3.56	ug/L		86
47) cyclohexane	4.372	84	11752	4.03	ug/L		94
48) 1,1-dichloropropene	4.423	75	11681	3.83	ug/L		99
49) carbon tetrachloride	4.423	117	10182	3.86	ug/L		91
50) isopropyl acetate	4.539	87	2346	3.49	ug/L	#	53
51) tert amyl alcohol	4.516	55	3135	18.31	ug/L	#	81
54) tert-amyl methyl ether	4.629	73	25791	4.21	ug/L		94
55) 2,2,4-trimethylpentane	4.632	57	21477	4.40	ug/L		96
56) n-butyl alcohol	4.902	56	21418	184.57	ug/L		95
57) benzene	4.571	78	32511	4.21	ug/L		96
58) heptane	4.735	57	5063	4.21	ug/L	#	75
59) 1,2-dichloroethane	4.593	62	11361	4.23	ug/L		98
60) trichloroethene	5.036	95	8239	4.01	ug/L		88
61) ethyl acrylate	5.059	55	14461	3.81	ug/L		95
62) 2-nitropropane	5.588	41	2893	3.32	ug/L		94
63) 2-chloroethyl vinyl ether	5.620	63	34645	20.98	ug/L		97
64) methyl methacrylate	5.235	100	2644	3.64	ug/L	#	85
65) 1,2-dichloropropane	5.242	63	8889	4.17	ug/L		89
66) methylcyclohexane	5.222	83	12604	4.10	ug/L		97
67) dibromomethane	5.306	93	5245	4.17	ug/L		95
68) bromodichloromethane	5.425	83	10434	3.83	ug/L		92
69) cis-1,3-dichloropropene	5.765	75	13448	3.92	ug/L		96
70) epichlorohydrin	5.672	57	6508	18.22	ug/L		100
71) 4-methyl-2-pentanone	5.861	58	19865	16.10	ug/L		91
72) 3-methyl-1-butanol	5.880	70	7356	73.35	ug/L	#	90
75) toluene	6.044	92	19213	4.25	ug/L		95
76) trans-1,3-dichloropropene	6.217	75	11859	4.00	ug/L		98
77) ethyl methacrylate	6.240	69	12251	3.93	ug/L		99
78) 1,1,2-trichloroethane	6.387	83	6469	4.13	ug/L		98
79) 2-hexanone	6.554	58	19788	16.87	ug/L		98
80) tetrachloroethene	6.484	166	8331	4.20	ug/L		91
81) 1,3-dichloropropane	6.532	76	13418	4.50	ug/L		95
82) butyl acetate	6.634	56	7887	4.11	ug/L		91
83) dibromochloromethane	6.721	129	7706	4.14	ug/L		96
84) 1,2-dibromoethane	6.837	107	10140	4.24	ug/L		94
85) n-butyl ether	7.308	57	31082	3.97	ug/L		97
86) chlorobenzene	7.263	112	19879	4.14	ug/L		96
87) 1,1,1,2-tetrachloroethane	7.337	131	6770	4.25	ug/L		94
88) ethylbenzene	7.340	91	35463	4.46	ug/L		99
89) m,p-xylene	7.456	106	26065	8.59	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310726.D
Acq On : 3 Apr 2019 7:53 pm
Operator : juntaep
Sample : ic9011-4
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 04 11:12:51 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

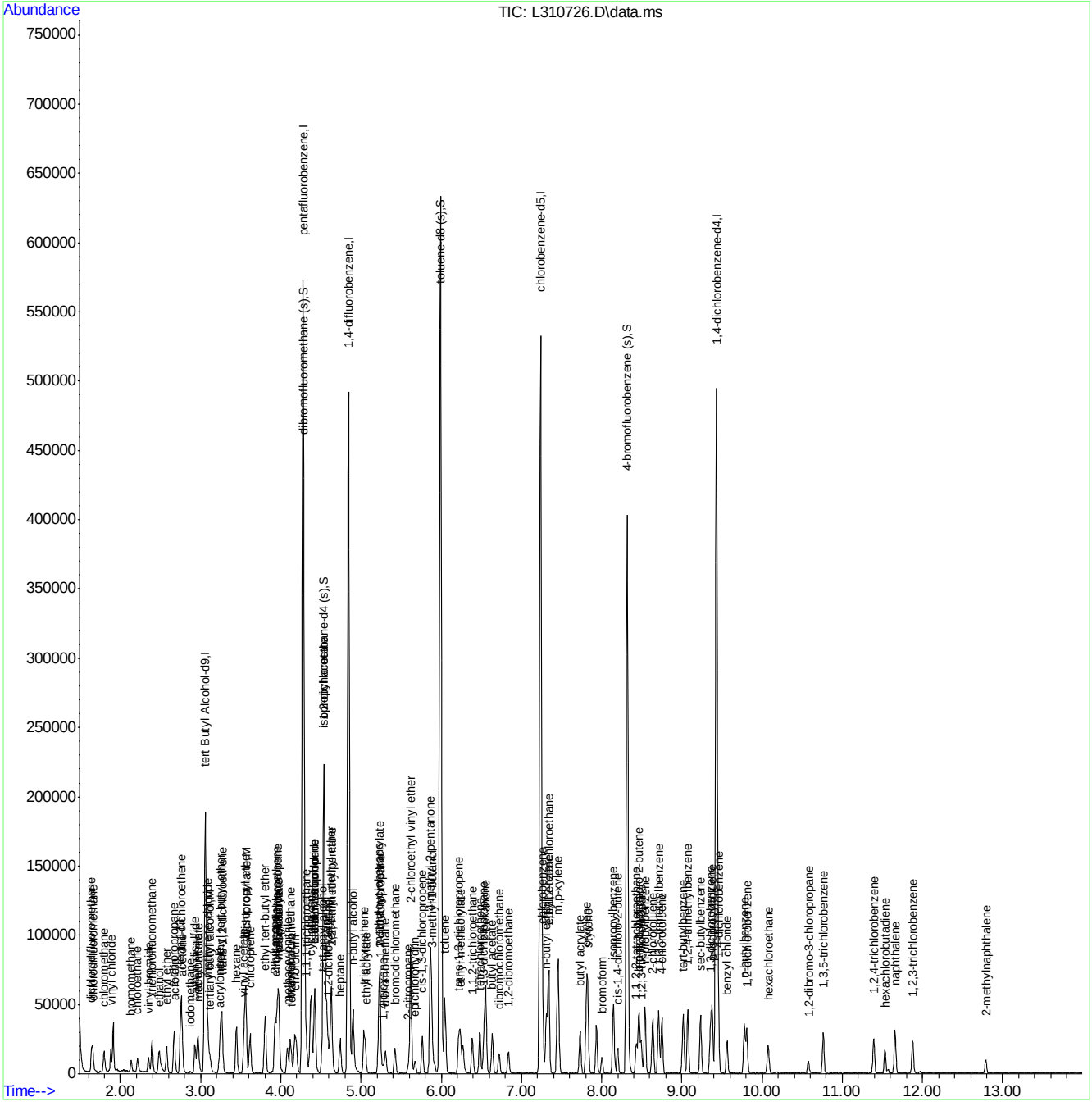
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
90) o-xylene	7.809	106	12987	4.22	ug/L		96
91) butyl acrylate	7.732	55	18650	3.72	ug/L		98
92) styrene	7.828	104	22211	4.38	ug/L		93
93) bromoform	8.005	173	5283	3.96	ug/L		97
94) isopropylbenzene	8.146	105	32697	4.27	ug/L		98
95) cis-1,4-dichloro-2-butene	8.200	88	3906	3.85	ug/L	#	90
98) bromobenzene	8.460	156	8379	3.89	ug/L		93
99) 1,1,2,2-tetrachloroethane	8.431	83	11010	3.72	ug/L		95
100) trans-1,4-dichloro-2-b...	8.467	53	3061	3.55	ug/L		88
101) 1,2,3-trichloropropane	8.496	110	3134	3.92	ug/L		90
102) n-propylbenzene	8.544	91	37014	4.01	ug/L		99
103) 2-chlorotoluene	8.637	126	7479	3.91	ug/L		87
104) 4-chlorotoluene	8.752	126	7673	4.10	ug/L		97
105) 1,3,5-trimethylbenzene	8.711	105	24086	3.80	ug/L		96
106) tert-butylbenzene	9.019	119	20802	3.83	ug/L		96
107) 1,2,4-trimethylbenzene	9.076	105	24903	3.93	ug/L		98
108) sec-butylbenzene	9.234	105	28733	3.80	ug/L		95
109) 1,3-dichlorobenzene	9.359	146	14526	3.97	ug/L		94
110) p-isopropyltoluene	9.378	119	23982	3.97	ug/L		98
111) 1,4-dichlorobenzene	9.458	146	14159	4.08	ug/L		88
112) 1,2-dichlorobenzene	9.814	146	13608	3.95	ug/L		89
113) n-butylbenzene	9.779	92	10611	3.41	ug/L		97
114) 1,2-dibromo-3-chloropr...	10.581	157	2397	3.12	ug/L		80
115) 1,3,5-trichlorobenzene	10.764	180	9498	3.75	ug/L		92
116) 1,2,4-trichlorobenzene	11.393	180	8109	3.43	ug/L		97
117) hexachlorobutadiene	11.538	225	3471	3.74	ug/L		94
118) naphthalene	11.656	128	25663	3.42	ug/L		99
119) 1,2,3-trichlorobenzene	11.878	180	8184	3.78	ug/L		96
120) hexachloroethane	10.078	119	3835	3.47	ug/L		93
121) benzyl chloride	9.564	91	16831	3.33	ug/L		97
123) 2-methylnaphthalene	12.792	142	4985	1.40	ug/L		86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310726.D
Acq On : 3 Apr 2019 7:53 pm
Operator : juntaep
Sample : ic9011-4
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 04 11:12:51 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310727.D
Acq On : 3 Apr 2019 8:20 pm
Operator : juntaep
Sample : ic9011-8
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 04 10:39:37 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.060	65	200531	500.00	ug/L		0.00
5) pentafluorobenzene	4.276	168	239631	50.00	ug/L		0.00
52) 1,4-difluorobenzene	4.841	114	336145	50.00	ug/L		0.00
73) chlorobenzene-d5	7.238	117	278527	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.429	152	125449	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.285	113	98110	47.65	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.30%				
53) 1,2-dichloroethane-d4 (s)	4.536	65	114332	53.00	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 106.00%				
74) toluene-d8 (s)	5.989	98	379464	52.77	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.54%				
97) 4-bromofluorobenzene (s)	8.319	95	130296	48.01	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.02%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.274	88	7856	197.79	ug/L		84
3) ethanol	2.482	45	39366	757.37	ug/L		99
4) tertiary butyl alcohol	3.114	59	18450	38.56	ug/L		99
6) chlorodifluoromethane	1.654	51	23219	6.77	ug/L		98
7) dichlorodifluoromethane	1.638	85	29864	7.13	ug/L		97
8) chloromethane	1.792	50	27669	7.28	ug/L		96
9) vinyl chloride	1.879	62	27224	7.49	ug/L		98
10) bromomethane	2.132	94	7797	6.96	ug/L		97
11) chloroethane	2.212	64	13931	7.71	ug/L		99
12) vinyl bromide	2.350	106	12365	7.29	ug/L		94
13) trichlorofluoromethane	2.389	101	29295	7.50	ug/L		99
14) ethyl ether	2.575	74	11165	7.45	ug/L		86
15) 2-chloropropane	2.668	43	32889	7.53	ug/L		95
16) acrolein	2.678	56	3878	7.47	ug/L		86
17) freon 113	2.752	151	12853	7.55	ug/L		100
18) 1,1-dichloroethene	2.755	96	16292	7.65	ug/L		99
19) acetone	2.768	58	10124	30.96	ug/L		88
20) acetonitrile	2.960	40	20155	74.43	ug/L		99
21) iodomethane	2.867	142	2526	2.61	ug/L		97
22) iso-butyl alcohol	4.423	43	15244	82.84	ug/L		97
23) carbon disulfide	2.928	76	43017	7.61	ug/L		98
24) methylene chloride	3.085	84	16554	7.57	ug/L		98
25) methyl acetate	2.973	74	4363	7.52	ug/L	#	85
26) methyl tert butyl ether	3.252	73	53590	7.59	ug/L		95
27) trans-1,2-dichloroethene	3.271	96	16817	7.81	ug/L		98
28) hexane	3.445	57	24320	7.22	ug/L		97
29) di-isopropyl ether	3.557	45	60665	7.66	ug/L		96
30) ethyl tert-butyl ether	3.804	59	57639	7.66	ug/L		97
31) 2-butanone	3.923	72	12981	29.45	ug/L		100
32) 1,1-dichloroethane	3.567	63	31263	7.65	ug/L		97
33) chloroprene	3.615	53	27745	7.48	ug/L		96
34) acrylonitrile	3.233	53	9934	7.35	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310727.D
Acq On : 3 Apr 2019 8:20 pm
Operator : juntaep
Sample : ic9011-8
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 04 10:39:37 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) vinyl acetate	3.541	86	4458	7.30	ug/L		99
36) ethyl acetate	3.932	45	4242	6.99	ug/L		89
37) 2,2-dichloropropane	3.965	77	24372	7.85	ug/L		97
38) cis-1,2-dichloroethene	3.952	96	17753	7.71	ug/L		98
39) propionitrile	3.974	54	42034	81.45	ug/L		99
40) methyl acrylate	3.977	85	3756	7.98	ug/L	#	90
41) bromochloromethane	4.122	128	8374	8.10	ug/L	#	75
42) tetrahydrofuran	4.128	72	3797	8.10	ug/L		98
43) chloroform	4.173	83	28508	7.60	ug/L		99
45) methacrylonitrile	4.080	67	9750	7.28	ug/L		83
46) 1,1,1-trichloroethane	4.314	97	23712	7.43	ug/L		93
47) cyclohexane	4.369	84	22292	7.82	ug/L		98
48) 1,1-dichloropropene	4.420	75	22647	7.60	ug/L		93
49) carbon tetrachloride	4.423	117	19235	7.45	ug/L		90
50) isopropyl acetate	4.539	87	4881	7.43	ug/L	#	92
51) tert amyl alcohol	4.516	55	6850	40.95	ug/L	#	87
54) tert-amyl methyl ether	4.629	73	51317	8.31	ug/L		99
55) 2,2,4-trimethylpentane	4.629	57	40888	8.32	ug/L		95
56) n-butyl alcohol	4.902	56	45705	390.86	ug/L		96
57) benzene	4.568	78	63846	8.21	ug/L		97
58) heptane	4.741	57	9278	7.66	ug/L		99
59) 1,2-dichloroethane	4.593	62	22640	8.36	ug/L		99
60) trichloroethene	5.036	95	15352	7.42	ug/L		94
61) ethyl acrylate	5.052	55	28925	7.57	ug/L		98
62) 2-nitropropane	5.585	41	6586	7.50	ug/L		92
63) 2-chloroethyl vinyl ether	5.617	63	69039	41.49	ug/L		99
64) methyl methacrylate	5.232	100	5576	7.62	ug/L		95
65) 1,2-dichloropropane	5.235	63	16623	7.74	ug/L		94
66) methylcyclohexane	5.226	83	24356	7.86	ug/L		97
67) dibromomethane	5.303	93	10040	7.92	ug/L		95
68) bromodichloromethane	5.425	83	20670	7.52	ug/L		98
69) cis-1,3-dichloropropene	5.762	75	26013	7.52	ug/L		98
70) epichlorohydrin	5.672	57	14041	39.00	ug/L		97
71) 4-methyl-2-pentanone	5.864	58	39631	31.88	ug/L	#	84
72) 3-methyl-1-butanol	5.880	70	16749	165.74	ug/L		96
75) toluene	6.044	92	37702	8.27	ug/L		98
76) trans-1,3-dichloropropene	6.214	75	23482	7.86	ug/L		98
77) ethyl methacrylate	6.233	69	24170	7.69	ug/L		98
78) 1,1,2-trichloroethane	6.387	83	12761	8.08	ug/L		95
79) 2-hexanone	6.551	58	40240	34.02	ug/L		96
80) tetrachloroethene	6.480	166	16444	8.23	ug/L		97
81) 1,3-dichloropropane	6.535	76	25925	8.62	ug/L		97
82) butyl acetate	6.634	56	15420	7.97	ug/L		97
83) dibromochloromethane	6.721	129	15073	8.02	ug/L		98
84) 1,2-dibromoethane	6.837	107	20059	8.31	ug/L		98
85) n-butyl ether	7.311	57	62428	7.92	ug/L		99
86) chlorobenzene	7.263	112	39025	8.05	ug/L		99
87) 1,1,1,2-tetrachloroethane	7.334	131	13307	8.28	ug/L		95
88) ethylbenzene	7.340	91	69102	8.61	ug/L		97
89) m,p-xylene	7.456	106	52107	17.02	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310727.D
Acq On : 3 Apr 2019 8:20 pm
Operator : juntaep
Sample : ic9011-8
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 04 10:39:37 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

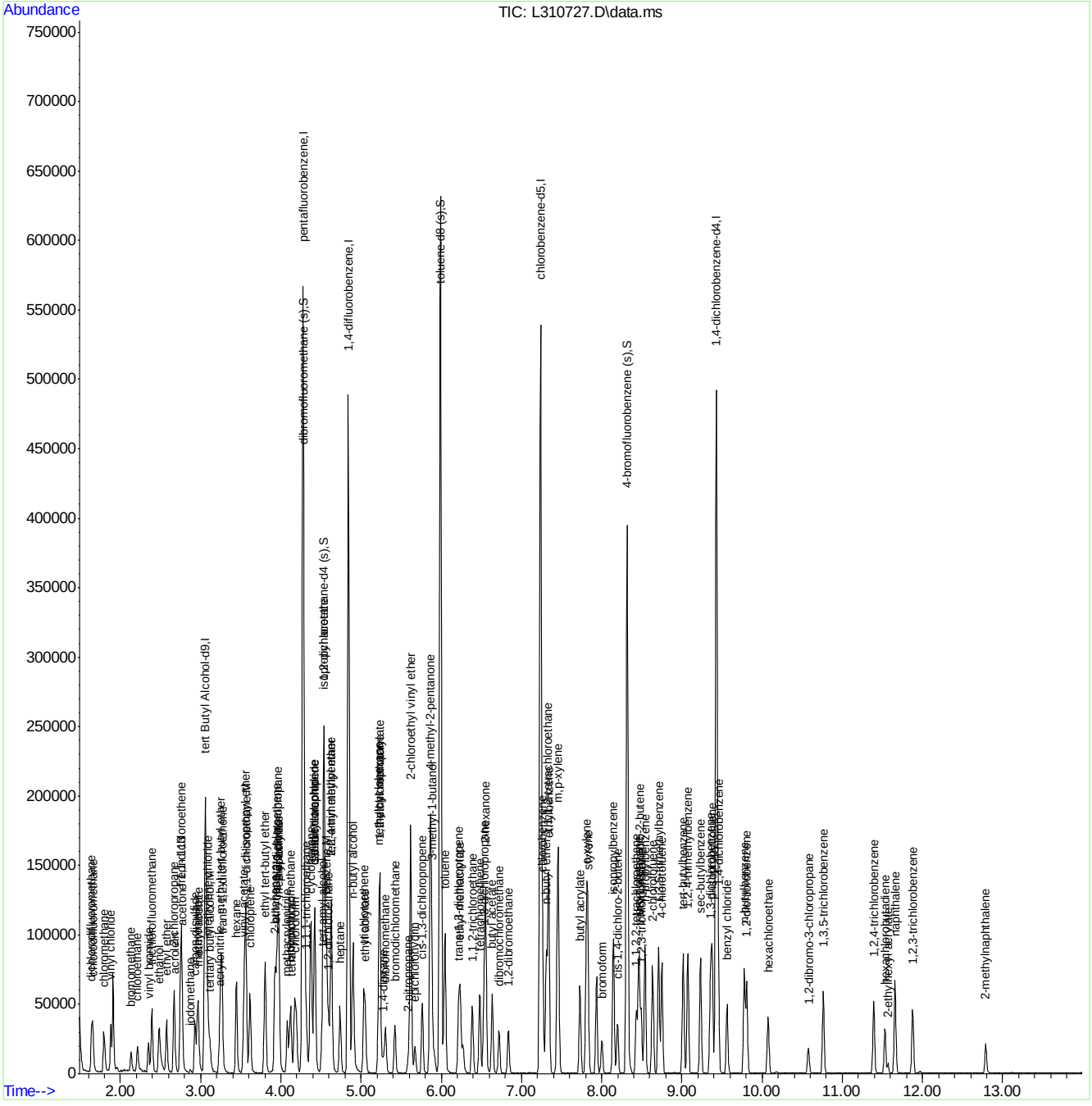
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90)	o-xylene	7.809	106	25540	8.22	ug/L	91
91)	butyl acrylate	7.729	55	38178	7.56	ug/L	99
92)	styrene	7.828	104	42865	8.39	ug/L	96
93)	bromoform	8.001	173	10465	7.78	ug/L	95
94)	isopropylbenzene	8.146	105	63888	8.27	ug/L	99
95)	cis-1,4-dichloro-2-butene	8.197	88	7946	7.77	ug/L	96
98)	bromobenzene	8.460	156	16072	7.52	ug/L	97
99)	1,1,2,2-tetrachloroethane	8.431	83	21866	7.46	ug/L	98
100)	trans-1,4-dichloro-2-b...	8.470	53	6382	7.47	ug/L	88
101)	1,2,3-trichloropropane	8.492	110	6343	8.00	ug/L	93
102)	n-propylbenzene	8.540	91	71696	7.84	ug/L	97
103)	2-chlorotoluene	8.637	126	14930	7.87	ug/L	94
104)	4-chlorotoluene	8.752	126	14686	7.92	ug/L	100
105)	1,3,5-trimethylbenzene	8.711	105	48164	7.67	ug/L	97
106)	tert-butylbenzene	9.015	119	40969	7.60	ug/L	98
107)	1,2,4-trimethylbenzene	9.073	105	49469	7.87	ug/L	94
108)	sec-butylbenzene	9.234	105	58436	7.79	ug/L	97
109)	1,3-dichlorobenzene	9.359	146	28283	7.80	ug/L	98
110)	p-isopropyltoluene	9.378	119	46844	7.81	ug/L	98
111)	1,4-dichlorobenzene	9.455	146	26584	7.73	ug/L	97
112)	1,2-dichlorobenzene	9.808	146	26947	7.88	ug/L	96
113)	n-butylbenzene	9.779	92	21900	7.10	ug/L	94
114)	1,2-dibromo-3-chloropr...	10.578	157	5184	6.81	ug/L	91
115)	1,3,5-trichlorobenzene	10.764	180	18375	7.31	ug/L	95
116)	1,2,4-trichlorobenzene	11.393	180	16677	7.12	ug/L	97
117)	hexachlorobutadiene	11.534	225	6858	7.45	ug/L	90
118)	naphthalene	11.660	128	54387	7.31	ug/L	97
119)	1,2,3-trichlorobenzene	11.878	180	15827	7.36	ug/L	96
120)	hexachloroethane	10.078	119	7497	6.83	ug/L	97
121)	benzyl chloride	9.564	91	35041	6.98	ug/L	98
122)	2-ethylhexyl acrylate	11.570	70	1675	1.16	ug/L	93
123)	2-methylnaphthalene	12.789	142	10400	2.94	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310727.D
Acq On : 3 Apr 2019 8:20 pm
Operator : juntaep
Sample : ic9011-8
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 04 10:39:37 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310728.D
Acq On : 3 Apr 2019 8:47 pm
Operator : juntaep
Sample : ic9011-20
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 04 10:39:40 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.060	65	172976	500.00	ug/L	0.00
5) pentafluorobenzene	4.276	168	219608	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.844	114	314920	50.00	ug/L	0.00
73) chlorobenzene-d5	7.238	117	267333	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.432	152	116535	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.282	113	91320	48.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.80%			
53) 1,2-dichloroethane-d4 (s)	4.536	65	107133	53.01	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 106.02%			
74) toluene-d8 (s)	5.989	98	351741	50.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.92%			
97) 4-bromofluorobenzene (s)	8.316	95	123334	48.92	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.84%			
Target Compounds						Qvalue
2) 1,4-dioxane	5.277	88	17770	518.68	ug/L	100
3) ethanol	2.482	45	92034	2052.73	ug/L	99
4) tertiary butyl alcohol	3.114	59	41796	101.28	ug/L	100
6) chlorodifluoromethane	1.654	51	60540	19.26	ug/L	97
7) dichlorodifluoromethane	1.638	85	72820	18.98	ug/L	99
8) chloromethane	1.792	50	65659	18.86	ug/L	99
9) vinyl chloride	1.879	62	65801	19.76	ug/L	100
10) bromomethane	2.129	94	20998	20.46	ug/L	96
11) chloroethane	2.212	64	32521	19.63	ug/L	96
12) vinyl bromide	2.350	106	30702	19.74	ug/L	97
13) trichlorofluoromethane	2.392	101	70727	19.76	ug/L	99
14) ethyl ether	2.575	74	26417	19.23	ug/L	97
15) 2-chloropropane	2.668	43	78604	19.63	ug/L	96
16) acrolein	2.678	56	8953	18.83	ug/L	96
17) freon 113	2.748	151	31416	20.14	ug/L	99
18) 1,1-dichloroethene	2.755	96	39037	20.00	ug/L	97
19) acetone	2.768	58	23352	77.91	ug/L	95
20) acetonitrile	2.960	40	46364	186.84	ug/L	98
21) iodomethane	2.873	142	9733	10.97	ug/L	98
22) iso-butyl alcohol	4.423	43	33444	198.32	ug/L	92
23) carbon disulfide	2.928	76	103508	19.98	ug/L	99
24) methylene chloride	3.085	84	40020	19.97	ug/L	98
25) methyl acetate	2.970	74	10068	18.95	ug/L	95
26) methyl tert butyl ether	3.252	73	127528	19.70	ug/L	99
27) trans-1,2-dichloroethene	3.268	96	39305	19.91	ug/L	97
28) hexane	3.448	57	59985	19.42	ug/L	97
29) di-isopropyl ether	3.557	45	148582	20.47	ug/L	98
30) ethyl tert-butyl ether	3.804	59	138668	20.11	ug/L	97
31) 2-butanone	3.923	72	30133	74.61	ug/L	95
32) 1,1-dichloroethane	3.567	63	75392	20.13	ug/L	94
33) chloroprene	3.618	53	68266	20.09	ug/L	97
34) acrylonitrile	3.233	53	23184	18.73	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310728.D
Acq On : 3 Apr 2019 8:47 pm
Operator : juntaep
Sample : ic9011-20
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 04 10:39:40 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) vinyl acetate	3.541	86	10704	19.14	ug/L	#	82
36) ethyl acetate	3.932	45	9325	16.78	ug/L		91
37) 2,2-dichloropropane	3.961	77	58863	20.70	ug/L		97
38) cis-1,2-dichloroethene	3.952	96	42917	20.33	ug/L		96
39) propionitrile	3.974	54	94187	199.15	ug/L		99
40) methyl acrylate	3.977	85	8404	19.48	ug/L	#	88
41) bromochloromethane	4.119	128	19415	20.50	ug/L		95
42) tetrahydrofuran	4.128	72	8291	19.30	ug/L		86
43) chloroform	4.170	83	67932	19.77	ug/L		99
45) methacrylonitrile	4.080	67	22925	18.68	ug/L		92
46) 1,1,1-trichloroethane	4.311	97	56922	19.45	ug/L		97
47) cyclohexane	4.369	84	51996	19.91	ug/L		97
48) 1,1-dichloropropene	4.420	75	54557	19.99	ug/L		97
49) carbon tetrachloride	4.423	117	47482	20.08	ug/L		99
50) isopropyl acetate	4.536	87	11378	18.90	ug/L	#	89
51) tert amyl alcohol	4.516	55	14666	95.67	ug/L		93
54) tert-amyl methyl ether	4.629	73	119431	20.65	ug/L		99
55) 2,2,4-trimethylpentane	4.632	57	97253	21.11	ug/L		95
56) n-butyl alcohol	4.898	56	103337	943.27	ug/L		99
57) benzene	4.568	78	151360	20.77	ug/L		97
58) heptane	4.741	57	22940	20.23	ug/L		98
59) 1,2-dichloroethane	4.593	62	52282	20.62	ug/L		100
60) trichloroethene	5.036	95	38854	20.05	ug/L		99
61) ethyl acrylate	5.056	55	69636	19.44	ug/L		99
62) 2-nitropropane	5.588	41	16288	19.80	ug/L		88
63) 2-chloroethyl vinyl ether	5.617	63	160515	102.95	ug/L		99
64) methyl methacrylate	5.235	100	13430	19.58	ug/L		96
65) 1,2-dichloropropane	5.235	63	41194	20.48	ug/L		95
66) methylcyclohexane	5.226	83	59337	20.44	ug/L		99
67) dibromomethane	5.306	93	24167	20.35	ug/L		94
68) bromodichloromethane	5.421	83	51067	19.84	ug/L		100
69) cis-1,3-dichloropropene	5.761	75	63103	19.46	ug/L		97
70) epichlorohydrin	5.672	57	31673	93.91	ug/L		92
71) 4-methyl-2-pentanone	5.861	58	93466	80.25	ug/L		95
72) 3-methyl-1-butanol	5.880	70	37253	393.48	ug/L		96
75) toluene	6.047	92	90896	20.77	ug/L		99
76) trans-1,3-dichloropropene	6.217	75	57703	20.12	ug/L		99
77) ethyl methacrylate	6.236	69	61212	20.29	ug/L		99
78) 1,1,2-trichloroethane	6.387	83	30850	20.34	ug/L		100
79) 2-hexanone	6.551	58	93359	82.24	ug/L		98
80) tetrachloroethene	6.480	166	39486	20.58	ug/L		97
81) 1,3-dichloropropane	6.535	76	60805	21.06	ug/L		98
82) butyl acetate	6.634	56	37151	20.02	ug/L		99
83) dibromochloromethane	6.721	129	36146	20.05	ug/L		96
84) 1,2-dibromoethane	6.836	107	47505	20.50	ug/L		97
85) n-butyl ether	7.308	57	154312	20.39	ug/L		99
86) chlorobenzene	7.263	112	94680	20.35	ug/L		98
87) 1,1,1,2-tetrachloroethane	7.331	131	32151	20.85	ug/L		92
88) ethylbenzene	7.340	91	165607	21.49	ug/L		97
89) m,p-xylene	7.456	106	124380	42.33	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310728.D
Acq On : 3 Apr 2019 8:47 pm
Operator : juntaep
Sample : ic9011-20
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 04 10:39:40 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

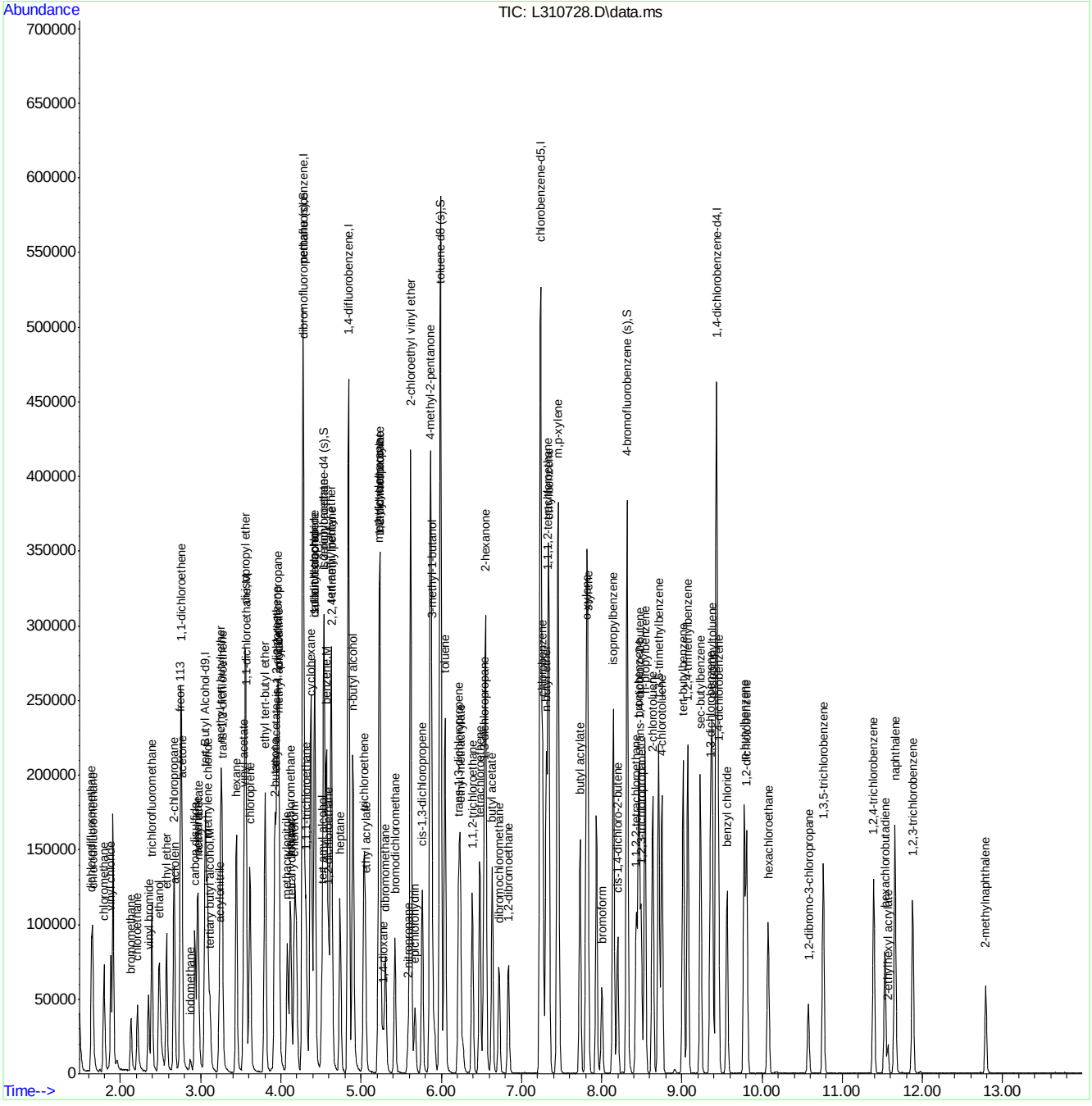
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) o-xylene	7.809	106	61917	20.77	ug/L	91
91) butyl acrylate	7.732	55	95470	19.69	ug/L	98
92) styrene	7.828	104	104184	21.23	ug/L	98
93) bromoform	8.001	173	26259	20.35	ug/L	98
94) isopropylbenzene	8.146	105	156622	21.13	ug/L	97
95) cis-1,4-dichloro-2-butene	8.200	88	19791	20.17	ug/L	94
98) bromobenzene	8.463	156	39262	19.79	ug/L	97
99) 1,1,2,2-tetrachloroethane	8.431	83	52567	19.30	ug/L	99
100) trans-1,4-dichloro-2-b...	8.470	53	15815	19.92	ug/L	92
101) 1,2,3-trichloropropane	8.492	110	14900	20.24	ug/L	95
102) n-propylbenzene	8.540	91	173807	20.46	ug/L	100
103) 2-chlorotoluene	8.637	126	35129	19.93	ug/L	97
104) 4-chlorotoluene	8.749	126	34904	20.27	ug/L	95
105) 1,3,5-trimethylbenzene	8.710	105	116927	20.04	ug/L	98
106) tert-butylbenzene	9.015	119	99401	19.85	ug/L	100
107) 1,2,4-trimethylbenzene	9.073	105	118331	20.27	ug/L	99
108) sec-butylbenzene	9.230	105	140394	20.15	ug/L	97
109) 1,3-dichlorobenzene	9.355	146	67978	20.18	ug/L	99
110) p-isopropyltoluene	9.378	119	113600	20.40	ug/L	99
111) 1,4-dichlorobenzene	9.455	146	65499	20.51	ug/L	99
112) 1,2-dichlorobenzene	9.808	146	64126	20.19	ug/L	97
113) n-butylbenzene	9.779	92	55193	19.26	ug/L	97
114) 1,2-dibromo-3-chloropr...	10.578	157	12622	17.84	ug/L	95
115) 1,3,5-trichlorobenzene	10.764	180	45450	19.47	ug/L	98
116) 1,2,4-trichlorobenzene	11.390	180	41806	19.21	ug/L	99
117) hexachlorobutadiene	11.531	225	16675	19.49	ug/L	96
118) naphthalene	11.656	128	133175	19.26	ug/L	100
119) 1,2,3-trichlorobenzene	11.878	180	38361	19.21	ug/L	96
120) hexachloroethane	10.074	119	19357	18.99	ug/L	94
121) benzyl chloride	9.564	91	87797	18.84	ug/L	99
122) 2-ethylhexyl acrylate	11.570	70	4736	3.53	ug/L	98
123) 2-methylnaphthalene	12.786	142	28048	8.53	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310728.D
Acq On : 3 Apr 2019 8:47 pm
Operator : juntaep
Sample : ic9011-20
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 04 10:39:40 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310729.D
Acq On : 3 Apr 2019 9:15 pm
Operator : juntaep
Sample : icc9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 04 10:39:43 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.060	65	174154	500.00	ug/L	0.00
5) pentafluorobenzene	4.273	168	204449	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.841	114	304007	50.00	ug/L	0.00
73) chlorobenzene-d5	7.238	117	266478	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.429	152	111968	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.282	113	87829	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
53) 1,2-dichloroethane-d4 (s)	4.536	65	97539	50.00	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.00%			
74) toluene-d8 (s)	5.989	98	344009	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
97) 4-bromofluorobenzene (s)	8.319	95	121124	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	5.274	88	43117	1250.00	ug/L	100
3) ethanol	2.485	45	225701	5000.00	ug/L	100
4) tertiary butyl alcohol	3.114	59	103872	250.00	ug/L	100
6) chlorodifluoromethane	1.654	51	146307	50.00	ug/L	100
7) dichlorodifluoromethane	1.638	85	178578	50.00	ug/L	100
8) chloromethane	1.792	50	162095	50.00	ug/L	100
9) vinyl chloride	1.879	62	155045	50.00	ug/L	100
10) bromomethane	2.126	94	47775	50.00	ug/L	100
11) chloroethane	2.206	64	77105	50.00	ug/L	100
12) vinyl bromide	2.347	106	72385	50.00	ug/L	100
13) trichlorofluoromethane	2.389	101	166652	50.00	ug/L	100
14) ethyl ether	2.572	74	63933	50.00	ug/L	100
15) 2-chloropropane	2.665	43	186374	50.00	ug/L	100
16) acrolein	2.678	56	22137	50.00	ug/L	100
17) freon 113	2.745	151	72609	50.00	ug/L	100
18) 1,1-dichloroethene	2.752	96	90849	50.00	ug/L	100
19) acetone	2.768	58	55805	200.00	ug/L	100
20) acetonitrile	2.960	40	115510	500.00	ug/L	100
21) iodomethane	2.870	142	41298	50.00	ug/L	100
22) iso-butyl alcohol	4.423	43	78497	500.00	ug/L	100
23) carbon disulfide	2.928	76	241174	50.00	ug/L	100
24) methylene chloride	3.085	84	93305	50.00	ug/L	100
25) methyl acetate	2.973	74	24735	50.00	ug/L	100
26) methyl tert butyl ether	3.249	73	301264	50.00	ug/L	100
27) trans-1,2-dichloroethene	3.268	96	91889	50.00	ug/L	100
28) hexane	3.445	57	143788	50.00	ug/L	100
29) di-isopropyl ether	3.557	45	337885	50.00	ug/L	100
30) ethyl tert-butyl ether	3.801	59	321025	50.00	ug/L	100
31) 2-butanone	3.923	72	75201	200.00	ug/L	100
32) 1,1-dichloroethane	3.563	63	174331	50.00	ug/L	100
33) chloroprene	3.615	53	158176	50.00	ug/L	100
34) acrylonitrile	3.230	53	57620	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310729.D
Acq On : 3 Apr 2019 9:15 pm
Operator : juntaep
Sample : icc9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 04 10:39:43 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) vinyl acetate	3.535	86	26035	50.00	ug/L	100
36) ethyl acetate	3.932	45	25872	50.00	ug/L	100
37) 2,2-dichloropropane	3.961	77	132384	50.00	ug/L	100
38) cis-1,2-dichloroethene	3.949	96	98251	50.00	ug/L	100
39) propionitrile	3.974	54	220151	500.00	ug/L	100
40) methyl acrylate	3.977	85	20086	50.00	ug/L	100
41) bromochloromethane	4.115	128	44084	50.00	ug/L	100
42) tetrahydrofuran	4.125	72	19992	50.00	ug/L	100
43) chloroform	4.170	83	159973	50.00	ug/L	100
45) methacrylonitrile	4.080	67	57113	50.00	ug/L	100
46) 1,1,1-trichloroethane	4.311	97	136213	50.00	ug/L	100
47) cyclohexane	4.369	84	121535	50.00	ug/L	100
48) 1,1-dichloropropene	4.417	75	127050	50.00	ug/L	100
49) carbon tetrachloride	4.423	117	110072	50.00	ug/L	100
50) isopropyl acetate	4.539	87	28021	50.00	ug/L	100
51) tert amyl alcohol	4.516	55	35678	250.00	ug/L	100
54) tert-amyl methyl ether	4.626	73	279219	50.00	ug/L	100
55) 2,2,4-trimethylpentane	4.629	57	222331	50.00	ug/L	100
56) n-butyl alcohol	4.902	56	264388	2500.00	ug/L	100
57) benzene	4.568	78	351733	50.00	ug/L	100
58) heptane	4.738	57	54737	50.00	ug/L	100
59) 1,2-dichloroethane	4.593	62	122406	50.00	ug/L	100
60) trichloroethene	5.036	95	93553	50.00	ug/L	100
61) ethyl acrylate	5.052	55	172897	50.00	ug/L	100
62) 2-nitropropane	5.588	41	39699	50.00	ug/L	100
63) 2-chloroethyl vinyl ether	5.617	63	376268	250.00	ug/L	100
64) methyl methacrylate	5.235	100	33110	50.00	ug/L	100
65) 1,2-dichloropropane	5.235	63	97077	50.00	ug/L	100
66) methylcyclohexane	5.222	83	140116	50.00	ug/L	100
67) dibromomethane	5.303	93	57332	50.00	ug/L	100
68) bromodichloromethane	5.421	83	124219	50.00	ug/L	100
69) cis-1,3-dichloropropene	5.762	75	156494	50.00	ug/L	100
70) epichlorohydrin	5.672	57	81398	250.00	ug/L	100
71) 4-methyl-2-pentanone	5.864	58	224865	200.00	ug/L	100
72) 3-methyl-1-butanol	5.880	70	91395	1000.00	ug/L	100
75) toluene	6.044	92	218107	50.00	ug/L	100
76) trans-1,3-dichloropropene	6.214	75	142954	50.00	ug/L	100
77) ethyl methacrylate	6.236	69	150368	50.00	ug/L	100
78) 1,1,2-trichloroethane	6.387	83	75591	50.00	ug/L	100
79) 2-hexanone	6.551	58	226317	200.00	ug/L	100
80) tetrachloroethene	6.480	166	95634	50.00	ug/L	100
81) 1,3-dichloropropane	6.535	76	143869	50.00	ug/L	100
82) butyl acetate	6.634	56	92500	50.00	ug/L	100
83) dibromochloromethane	6.721	129	89852	50.00	ug/L	100
84) 1,2-dibromoethane	6.837	107	115468	50.00	ug/L	100
85) n-butyl ether	7.308	57	377237	50.00	ug/L	100
86) chlorobenzene	7.263	112	231887	50.00	ug/L	100
87) 1,1,1,2-tetrachloroethane	7.334	131	76836	50.00	ug/L	100
88) ethylbenzene	7.340	91	384015	50.00	ug/L	100
89) m,p-xylene	7.456	106	292872	100.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310729.D
Acq On : 3 Apr 2019 9:15 pm
Operator : juntaep
Sample : icc9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 04 10:39:43 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

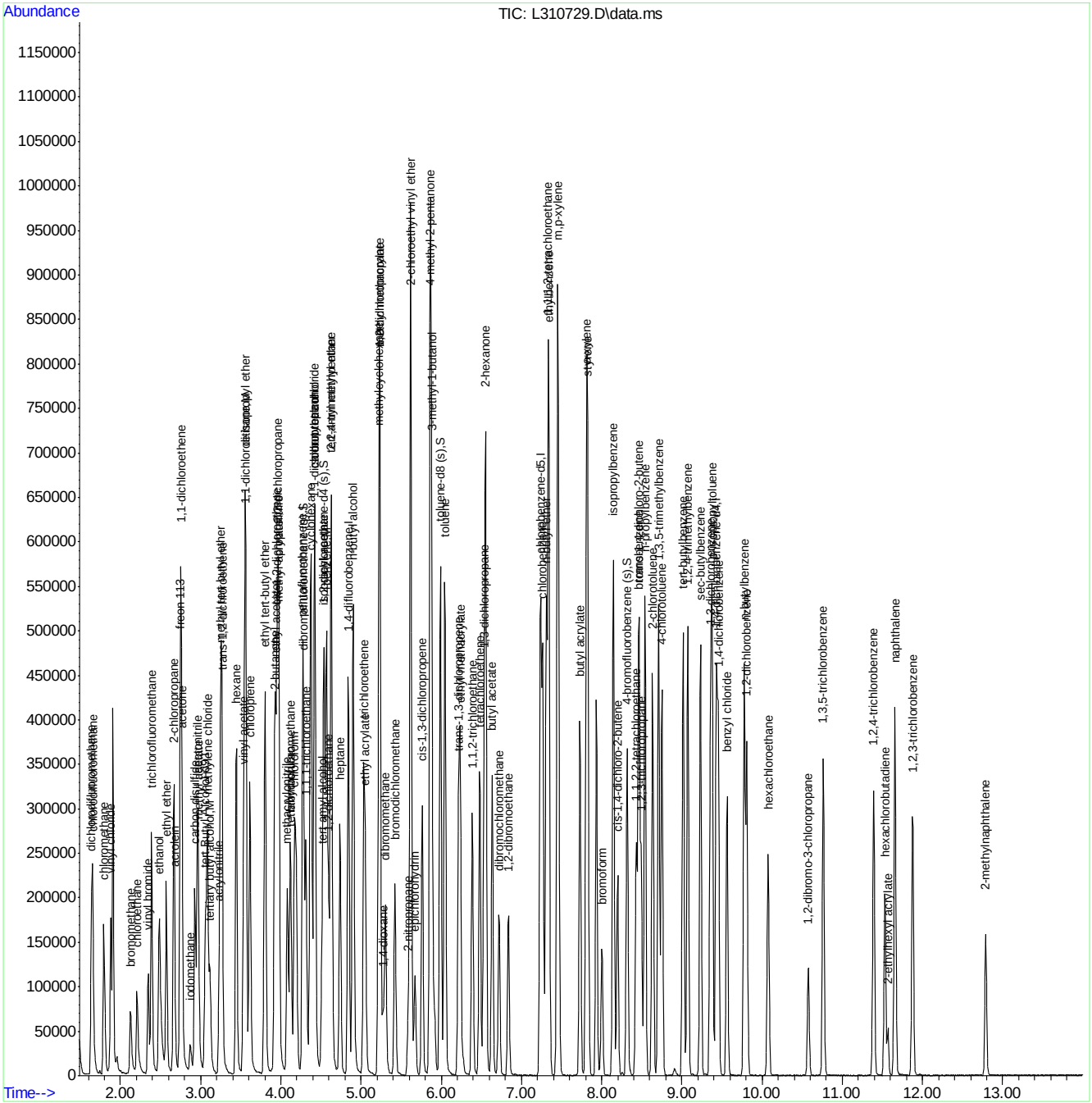
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) o-xylene	7.812	106	148599	50.00	ug/L	100
91) butyl acrylate	7.729	55	241656	50.00	ug/L	100
92) styrene	7.825	104	244529	50.00	ug/L	100
93) bromoform	8.001	173	64306	50.00	ug/L	100
94) isopropylbenzene	8.146	105	369418	50.00	ug/L	100
95) cis-1,4-dichloro-2-butene	8.200	88	48901	50.00	ug/L	100
98) bromobenzene	8.460	156	95321	50.00	ug/L	100
99) 1,1,2,2-tetrachloroethane	8.431	83	130847	50.00	ug/L	100
100) trans-1,4-dichloro-2-b...	8.467	53	38142	50.00	ug/L	100
101) 1,2,3-trichloropropane	8.496	110	35374	50.00	ug/L	100
102) n-propylbenzene	8.540	91	408106	50.00	ug/L	100
103) 2-chlorotoluene	8.634	126	84691	50.00	ug/L	100
104) 4-chlorotoluene	8.752	126	82743	50.00	ug/L	100
105) 1,3,5-trimethylbenzene	8.711	105	280252	50.00	ug/L	100
106) tert-butylbenzene	9.015	119	240534	50.00	ug/L	100
107) 1,2,4-trimethylbenzene	9.076	105	280508	50.00	ug/L	100
108) sec-butylbenzene	9.234	105	334721	50.00	ug/L	100
109) 1,3-dichlorobenzene	9.359	146	161814	50.00	ug/L	100
110) p-isopropyltoluene	9.378	119	267545	50.00	ug/L	100
111) 1,4-dichlorobenzene	9.455	146	153402	50.00	ug/L	100
112) 1,2-dichlorobenzene	9.808	146	152547	50.00	ug/L	100
113) n-butylbenzene	9.779	92	137650	50.00	ug/L	100
114) 1,2-dibromo-3-chloropr...	10.575	157	33981	50.00	ug/L	100
115) 1,3,5-trichlorobenzene	10.761	180	112143	50.00	ug/L	100
116) 1,2,4-trichlorobenzene	11.390	180	104573	50.00	ug/L	100
117) hexachlorobutadiene	11.534	225	41092	50.00	ug/L	100
118) naphthalene	11.656	128	332105	50.00	ug/L	100
119) 1,2,3-trichlorobenzene	11.878	180	95934	50.00	ug/L	100
120) hexachloroethane	10.074	119	48957	50.00	ug/L	100
121) benzyl chloride	9.564	91	223903	50.00	ug/L	100
122) 2-ethylhexyl acrylate	11.570	70	12891	10.00	ug/L	100
123) 2-methylnaphthalene	12.789	142	78980	25.00	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310729.D
Acq On : 3 Apr 2019 9:15 pm
Operator : juntaep
Sample : icc9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 04 10:39:43 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310730.D
Acq On : 3 Apr 2019 9:42 pm
Operator : juntaep
Sample : ic9011-100
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 04 10:39:46 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.066	65	151027	500.00	ug/L	0.00
5) pentafluorobenzene	4.276	168	193075	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.844	114	289234	50.00	ug/L	0.00
73) chlorobenzene-d5	7.238	117	258703	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.429	152	105014	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.286	113	82871	49.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.92%			
53) 1,2-dichloroethane-d4 (s)	4.536	65	92663	49.93	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.86%			
74) toluene-d8 (s)	5.989	98	325862	48.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.58%			
97) 4-bromofluorobenzene (s)	8.316	95	115392	50.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.58%			
Target Compounds						Qvalue
2) 1,4-dioxane	5.277	88	72965	2439.24	ug/L	96
3) ethanol	2.492	45	375090	9581.88	ug/L	98
4) tertiary butyl alcohol	3.121	59	173429	481.33	ug/L	95
6) chlorodifluoromethane	1.651	51	268267	97.08	ug/L	98
7) dichlorodifluoromethane	1.635	85	340240	100.88	ug/L	100
8) chloromethane	1.792	50	294256	96.11	ug/L	97
9) vinyl chloride	1.879	62	283113	96.68	ug/L	100
10) bromomethane	2.119	94	90270	100.04	ug/L	99
11) chloroethane	2.203	64	139668	95.91	ug/L	98
12) vinyl bromide	2.344	106	130299	95.31	ug/L	99
13) trichlorofluoromethane	2.386	101	303943	96.56	ug/L	100
14) ethyl ether	2.572	74	116168	96.20	ug/L	99
15) 2-chloropropane	2.665	43	328368	93.28	ug/L	99
16) acrolein	2.675	56	39469	94.40	ug/L	96
17) freon 113	2.748	151	127951	93.30	ug/L	99
18) 1,1-dichloroethene	2.752	96	158653	92.46	ug/L	96
19) acetone	2.768	58	96064	364.57	ug/L	96
20) acetonitrile	2.960	40	192318	881.51	ug/L	98
21) iodomethane	2.870	142	108476	139.07	ug/L	98
22) iso-butyl alcohol	4.430	43	128064	863.78	ug/L	98
23) carbon disulfide	2.928	76	437216	95.98	ug/L	99
24) methylene chloride	3.082	84	170409	96.70	ug/L	97
25) methyl acetate	2.970	74	42354	90.66	ug/L	97
26) methyl tert butyl ether	3.249	73	532770	93.63	ug/L	99
27) trans-1,2-dichloroethene	3.265	96	164001	94.50	ug/L	97
28) hexane	3.445	57	263271	96.94	ug/L	98
29) di-isopropyl ether	3.557	45	592377	92.82	ug/L	97
30) ethyl tert-butyl ether	3.804	59	575379	94.90	ug/L	99
31) 2-butanone	3.926	72	129092	363.55	ug/L	92
32) 1,1-dichloroethane	3.564	63	305972	92.93	ug/L	99
33) chloroprene	3.615	53	283509	94.90	ug/L	98
34) acrylonitrile	3.233	53	101439	93.21	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310730.D
Acq On : 3 Apr 2019 9:42 pm
Operator : juntaep
Sample : ic9011-100
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 04 10:39:46 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) vinyl acetate	3.538	86	47258	96.11	ug/L	#	71
36) ethyl acetate	3.933	45	43874	89.79	ug/L		97
37) 2,2-dichloropropane	3.961	77	233076	93.22	ug/L		98
38) cis-1,2-dichloroethene	3.952	96	175358	94.50	ug/L		99
39) propionitrile	3.974	54	361664	869.79	ug/L		97
40) methyl acrylate	3.977	85	34889	91.97	ug/L	#	91
41) bromochloromethane	4.119	128	78023	93.71	ug/L		99
42) tetrahydrofuran	4.128	72	35813	94.84	ug/L		99
43) chloroform	4.170	83	282860	93.62	ug/L		99
45) methacrylonitrile	4.080	67	100627	93.28	ug/L		94
46) 1,1,1-trichloroethane	4.311	97	249810	97.10	ug/L		98
47) cyclohexane	4.369	84	223098	97.19	ug/L		98
48) 1,1-dichloropropene	4.420	75	227644	94.87	ug/L		98
49) carbon tetrachloride	4.423	117	198134	95.30	ug/L		98
50) isopropyl acetate	4.539	87	50701	95.80	ug/L	#	93
51) tert amyl alcohol	4.523	55	59072	438.31	ug/L	#	92
54) tert-amyl methyl ether	4.629	73	493476	92.88	ug/L		99
55) 2,2,4-trimethylpentane	4.629	57	398925	94.30	ug/L		98
56) n-butyl alcohol	4.908	56	438735	4360.48	ug/L		99
57) benzene	4.568	78	618315	92.38	ug/L		100
58) heptane	4.738	57	99817	95.84	ug/L		98
59) 1,2-dichloroethane	4.590	62	218494	93.81	ug/L		98
60) trichloroethene	5.036	95	171748	96.48	ug/L		99
61) ethyl acrylate	5.056	55	304070	92.43	ug/L		99
62) 2-nitropropane	5.592	41	78485	103.90	ug/L		88
63) 2-chloroethyl vinyl ether	5.620	63	647560	452.23	ug/L		98
64) methyl methacrylate	5.235	100	58990	93.63	ug/L		99
65) 1,2-dichloropropane	5.235	63	173147	93.74	ug/L		99
66) methylcyclohexane	5.223	83	251087	94.18	ug/L		98
67) dibromomethane	5.306	93	103652	95.01	ug/L		97
68) bromodichloromethane	5.425	83	230367	97.46	ug/L		98
69) cis-1,3-dichloropropene	5.765	75	284222	95.45	ug/L		97
70) epichlorohydrin	5.675	57	140158	452.46	ug/L		97
71) 4-methyl-2-pentanone	5.864	58	379806	355.06	ug/L		93
72) 3-methyl-1-butanol	5.887	70	147268	1693.64	ug/L		98
75) toluene	6.047	92	392459	92.67	ug/L		98
76) trans-1,3-dichloropropene	6.217	75	264511	95.30	ug/L		97
77) ethyl methacrylate	6.237	69	268838	92.08	ug/L		99
78) 1,1,2-trichloroethane	6.387	83	137403	93.62	ug/L		99
79) 2-hexanone	6.554	58	376156	342.41	ug/L		97
80) tetrachloroethene	6.480	166	172903	93.12	ug/L		98
81) 1,3-dichloropropane	6.535	76	260656	93.31	ug/L		99
82) butyl acetate	6.638	56	160478	89.35	ug/L		99
83) dibromochloromethane	6.724	129	169113	96.93	ug/L		99
84) 1,2-dibromoethane	6.840	107	213444	95.20	ug/L		99
85) n-butyl ether	7.312	57	660843	90.22	ug/L		99
86) chlorobenzene	7.267	112	419994	93.28	ug/L		98
87) 1,1,1,2-tetrachloroethane	7.334	131	137827	92.38	ug/L		97
88) ethylbenzene	7.340	91	664555	89.13	ug/L		98
89) m,p-xylene	7.456	106	515544	181.32	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310730.D
Acq On : 3 Apr 2019 9:42 pm
Operator : juntaep
Sample : ic9011-100
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 04 10:39:46 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

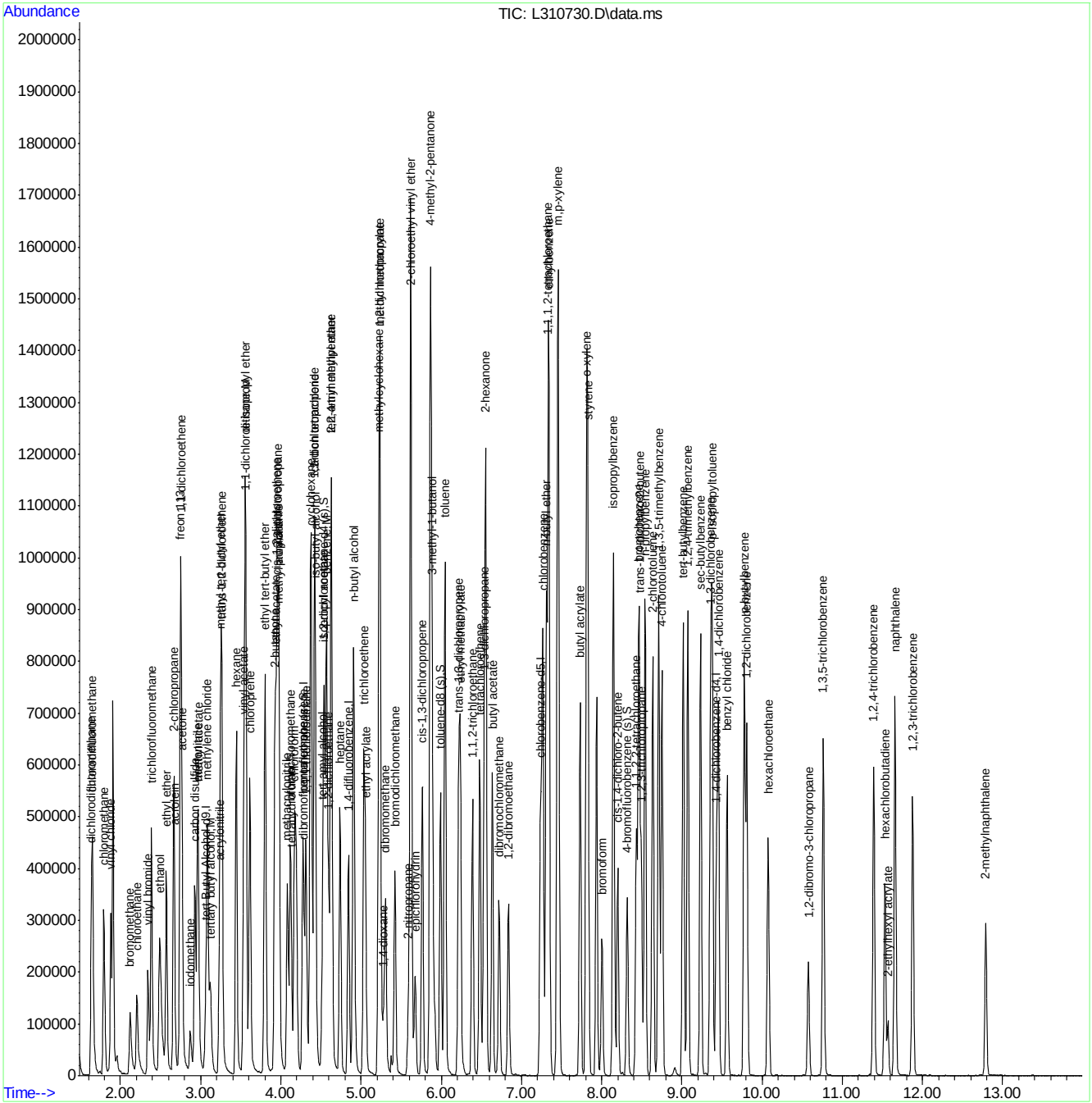
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90)	o-xylene	7.812	106	262000	90.81	ug/L	98
91)	butyl acrylate	7.732	55	431139	91.89	ug/L	97
92)	styrene	7.828	104	423292	89.15	ug/L	99
93)	bromoform	8.005	173	118746	95.10	ug/L	99
94)	isopropylbenzene	8.146	105	646420	90.12	ug/L	98
95)	cis-1,4-dichloro-2-butene	8.200	88	86478	91.08	ug/L	97
98)	bromobenzene	8.464	156	171476	95.90	ug/L	98
99)	1,1,2,2-tetrachloroethane	8.431	83	234655	95.61	ug/L	97
100)	trans-1,4-dichloro-2-b...	8.470	53	67738	94.68	ug/L	99
101)	1,2,3-trichloropropane	8.496	110	61535	92.74	ug/L	99
102)	n-propylbenzene	8.544	91	706617	92.31	ug/L	98
103)	2-chlorotoluene	8.637	126	151535	95.39	ug/L	96
104)	4-chlorotoluene	8.752	126	146619	94.47	ug/L	97
105)	1,3,5-trimethylbenzene	8.711	105	488663	92.96	ug/L	100
106)	tert-butylbenzene	9.019	119	424617	94.11	ug/L	99
107)	1,2,4-trimethylbenzene	9.073	105	490539	93.23	ug/L	98
108)	sec-butylbenzene	9.234	105	586559	93.42	ug/L	99
109)	1,3-dichlorobenzene	9.359	146	290050	95.56	ug/L	99
110)	p-isopropyltoluene	9.378	119	464526	92.56	ug/L	97
111)	1,4-dichlorobenzene	9.455	146	279078	96.99	ug/L	98
112)	1,2-dichlorobenzene	9.808	146	269016	94.01	ug/L	99
113)	n-butylbenzene	9.776	92	247562	95.88	ug/L	99
114)	1,2-dibromo-3-chloropr...	10.578	157	61789	96.94	ug/L	93
115)	1,3,5-trichlorobenzene	10.761	180	207329	98.56	ug/L	99
116)	1,2,4-trichlorobenzene	11.390	180	197243	100.55	ug/L	99
117)	hexachlorobutadiene	11.531	225	75421	97.85	ug/L	96
118)	naphthalene	11.660	128	586512	94.15	ug/L	99
119)	1,2,3-trichlorobenzene	11.878	180	173102	96.19	ug/L	94
120)	hexachloroethane	10.078	119	92385	100.60	ug/L	98
121)	benzyl chloride	9.564	91	403044	95.96	ug/L	98
122)	2-ethylhexyl acrylate	11.570	70	26146	21.63	ug/L	94
123)	2-methylnaphthalene	12.789	142	149008	50.29	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310730.D
Acq On : 3 Apr 2019 9:42 pm
Operator : juntaep
Sample : ic9011-100
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 04 10:39:46 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310731.D
Acq On : 3 Apr 2019 10:09 pm
Operator : juntaep
Sample : ic9011-200
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 04 11:13:49 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.082	65	139337	500.00	ug/L	0.02
5) pentafluorobenzene	4.273	168	176700	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.844	114	271743	50.00	ug/L	0.00
73) chlorobenzene-d5	7.238	117	241034	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.433	152	94228	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.282	113	77076	50.77	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.54%			
53) 1,2-dichloroethane-d4 (s)	4.536	65	84815	48.64	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.28%			
74) toluene-d8 (s)	5.989	98	306429	49.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.48%			
97) 4-bromofluorobenzene (s)	8.319	95	105204	51.60	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.20%			
Target Compounds						Qvalue
2) 1,4-dioxane	5.283	88	138690	5025.43	ug/L	93
3) ethanol	2.508	45	613874	16997.41	ug/L	100
4) tertiary butyl alcohol	3.137	59	326368	981.78	ug/L	87
6) chlorodifluoromethane	1.651	51	491410	194.31	ug/L	96
7) dichlorodifluoromethane	1.635	85	622669	201.72	ug/L	100
8) chloromethane	1.795	50	534152	190.64	ug/L	96
9) vinyl chloride	1.882	62	502134	187.36	ug/L	99
11) chloroethane	2.196	64	226742	170.12	ug/L	99
12) vinyl bromide	2.341	106	234035	187.05	ug/L	98
13) trichlorofluoromethane	2.386	101	513898	178.40	ug/L	97
14) ethyl ether	2.572	74	214005	193.65	ug/L	92
15) 2-chloropropane	2.662	43	570417	177.06	ug/L	98
16) acrolein	2.678	56	74716	195.26	ug/L	93
17) freon 113	2.745	151	234103	186.52	ug/L	100
18) 1,1-dichloroethene	2.752	96	292349	186.17	ug/L	98
19) acetone	2.771	58	179737	745.32	ug/L	88
20) acetonitrile	2.960	40	365780	1831.97	ug/L	96
21) iodomethane	2.870	142	208035	291.42	ug/L	98
22) iso-butyl alcohol	4.443	43	253376	1867.37	ug/L	93
23) carbon disulfide	2.925	76	812996	195.02	ug/L	98
24) methylene chloride	3.082	84	312751	193.92	ug/L	100
25) methyl acetate	2.973	74	82335	192.57	ug/L	96
26) methyl tert butyl ether	3.252	73	935967	179.73	ug/L	96
27) trans-1,2-dichloroethene	3.265	96	297208	187.12	ug/L	99
28) hexane	3.442	57	477207	192.00	ug/L	98
29) di-isopropyl ether	3.557	45	1027104	175.86	ug/L	94
30) ethyl tert-butyl ether	3.801	59	1029192	185.47	ug/L	95
31) 2-butanone	3.926	72	240042	738.66	ug/L	92
32) 1,1-dichloroethane	3.563	63	540422	179.34	ug/L	100
33) chloroprene	3.615	53	509882	186.49	ug/L	98
34) acrylonitrile	3.233	53	193815	194.60	ug/L	99
35) vinyl acetate	3.538	86	92758	206.12	ug/L #	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310731.D
Acq On : 3 Apr 2019 10:09 pm
Operator : juntaep
Sample : ic9011-200
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 04 11:13:49 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) ethyl acetate	3.936	45	84970	190.00	ug/L	#	49
37) 2,2-dichloropropane	3.961	77	422926	184.82	ug/L		99
38) cis-1,2-dichloroethene	3.949	96	314391	185.12	ug/L		98
39) propionitrile	3.981	54	648934	1705.29	ug/L		84
40) methyl acrylate	3.981	85	66274	190.88	ug/L	#	83
41) bromochloromethane	4.119	128	138101	181.23	ug/L		98
42) tetrahydrofuran	4.128	72	66183	191.52	ug/L		98
43) chloroform	4.170	83	513523	185.71	ug/L		98
45) methacrylonitrile	4.083	67	190037	192.50	ug/L		95
46) 1,1,1-trichloroethane	4.311	97	465598	197.75	ug/L		98
47) cyclohexane	4.369	84	405647	193.09	ug/L		98
48) 1,1-dichloropropene	4.417	75	412451	187.81	ug/L		97
49) carbon tetrachloride	4.423	117	364622	191.64	ug/L		99
50) isopropyl acetate	4.539	87	95327	196.81	ug/L	#	84
51) tert amyl alcohol	4.533	55	105377	854.35	ug/L	#	69
54) tert-amyl methyl ether	4.629	73	880600	176.41	ug/L		95
55) 2,2,4-trimethylpentane	4.629	57	738747	185.86	ug/L		98
56) n-butyl alcohol	4.918	56	833104	8812.98	ug/L		98
57) benzene	4.568	78	1086923	172.85	ug/L		97
58) heptane	4.738	57	192875	197.10	ug/L		98
59) 1,2-dichloroethane	4.590	62	400121	182.85	ug/L		99
60) trichloroethene	5.033	95	317686	189.95	ug/L		99
61) ethyl acrylate	5.056	55	550200	178.00	ug/L		99
62) 2-nitropropane	5.591	41	147131	207.31	ug/L		94
63) 2-chloroethyl vinyl ether	5.620	63	1114713	828.57	ug/L		94
64) methyl methacrylate	5.235	100	106896	180.59	ug/L		94
65) 1,2-dichloropropane	5.235	63	312417	180.02	ug/L		98
66) methylcyclohexane	5.222	83	463815	185.16	ug/L		99
67) dibromomethane	5.306	93	194398	189.67	ug/L		97
68) bromodichloromethane	5.425	83	429244	193.29	ug/L		100
69) cis-1,3-dichloropropene	5.765	75	521440	186.38	ug/L		96
70) epichlorohydrin	5.675	57	264190	907.75	ug/L		97
71) 4-methyl-2-pentanone	5.867	58	672559	669.21	ug/L	#	85
72) 3-methyl-1-butanol	5.893	70	282786	3461.47	ug/L		95
75) toluene	6.047	92	715071	181.23	ug/L		93
76) trans-1,3-dichloropropene	6.217	75	486826	188.25	ug/L		96
77) ethyl methacrylate	6.240	69	482861	177.51	ug/L		98
78) 1,1,2-trichloroethane	6.387	83	255814	187.07	ug/L		98
79) 2-hexanone	6.557	58	667397	652.05	ug/L		91
80) tetrachloroethene	6.480	166	318540	184.12	ug/L		98
81) 1,3-dichloropropane	6.535	76	468033	179.83	ug/L		97
82) butyl acetate	6.638	56	298234	178.22	ug/L		96
83) dibromochloromethane	6.721	129	309751	190.56	ug/L		99
84) 1,2-dibromoethane	6.840	107	393868	188.56	ug/L		99
85) n-butyl ether	7.311	57	1144255	167.67	ug/L		96
86) chlorobenzene	7.267	112	757789	180.64	ug/L		95
87) 1,1,1,2-tetrachloroethane	7.337	131	245067	176.31	ug/L		96
88) ethylbenzene	7.340	91	1132956	163.09	ug/L		94
89) m,p-xylene	7.456	106	904844	341.57	ug/L		91
90) o-xylene	7.812	106	468053	174.11	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310731.D
Acq On : 3 Apr 2019 10:09 pm
Operator : juntaep
Sample : ic9011-200
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 04 11:13:49 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration

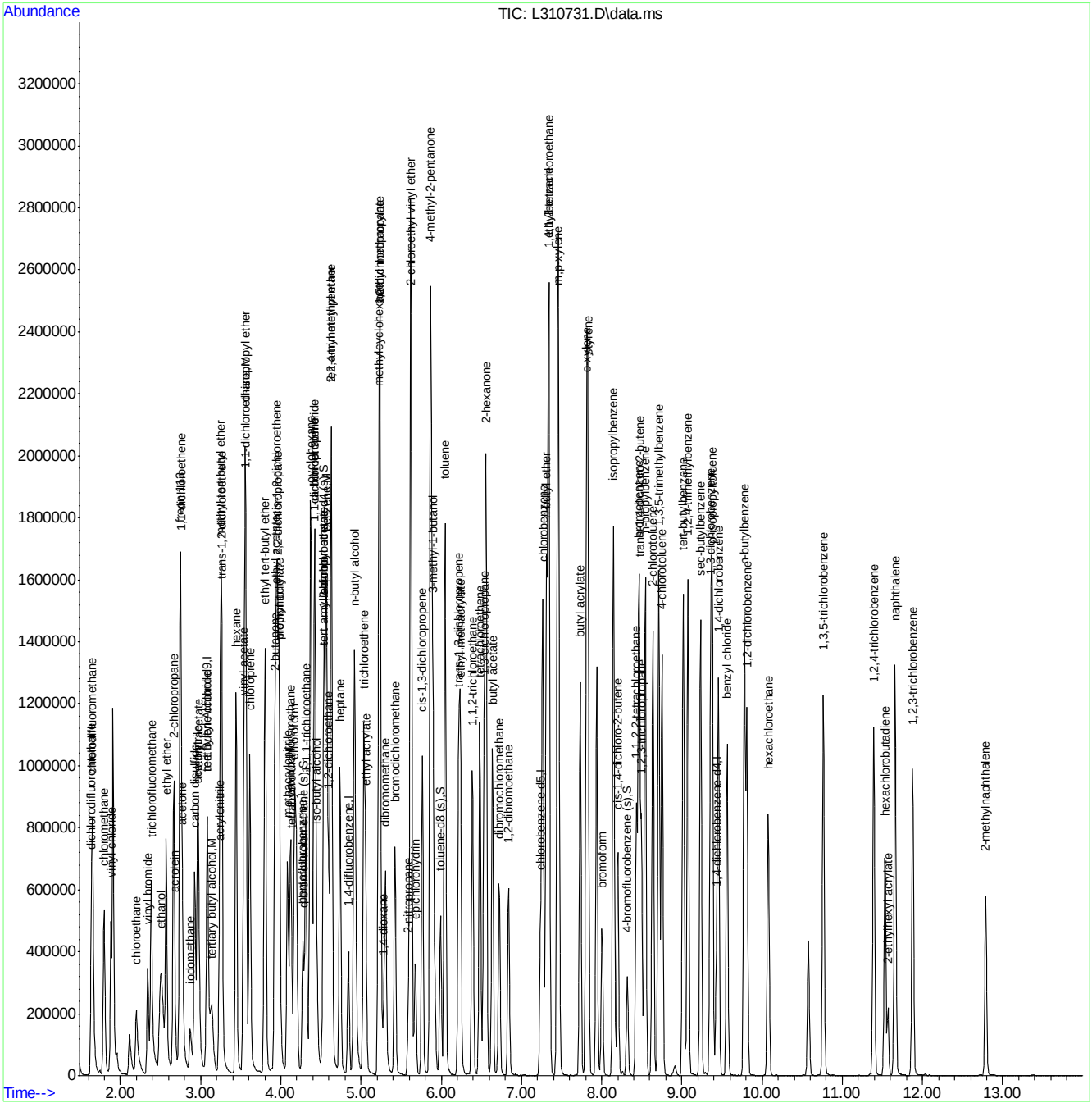
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	butyl acrylate	7.732	55	772022	176.60	ug/L	95
92)	styrene	7.828	104	738058	166.84	ug/L	96
93)	bromoform	8.008	173	217985	187.38	ug/L	97
94)	isopropylbenzene	8.146	105	1116905	167.13	ug/L	95
95)	cis-1,4-dichloro-2-butene	8.204	88	160205	181.10	ug/L	99
98)	bromobenzene	8.463	156	303528	189.19	ug/L	98
99)	1,1,2,2-tetrachloroethane	8.435	83	430834	195.63	ug/L	98
100)	trans-1,4-dichloro-2-b...	8.470	53	123318	192.09	ug/L	97
101)	1,2,3-trichloropropane	8.496	110	112750	189.37	ug/L	97
102)	n-propylbenzene	8.544	91	1211685	176.40	ug/L	94
103)	2-chlorotoluene	8.637	126	274973	192.90	ug/L	92
104)	4-chlorotoluene	8.752	126	262292	188.34	ug/L	96
105)	1,3,5-trimethylbenzene	8.711	105	853348	180.91	ug/L	97
106)	tert-butylbenzene	9.019	119	753968	186.23	ug/L	98
107)	1,2,4-trimethylbenzene	9.076	105	846336	179.26	ug/L	95
108)	sec-butylbenzene	9.234	105	1028971	182.64	ug/L	98
109)	1,3-dichlorobenzene	9.359	146	511229	187.71	ug/L	97
110)	p-isopropyltoluene	9.381	119	801525	177.99	ug/L	96
111)	1,4-dichlorobenzene	9.455	146	497955	192.86	ug/L	97
112)	1,2-dichlorobenzene	9.811	146	477289	185.89	ug/L	99
113)	n-butylbenzene	9.779	92	459197	198.20	ug/L	96
115)	1,3,5-trichlorobenzene	10.764	180	380573	201.63	ug/L	98
116)	1,2,4-trichlorobenzene	11.393	180	362250	205.81	ug/L	98
117)	hexachlorobutadiene	11.534	225	144388	208.77	ug/L	98
118)	naphthalene	11.660	128	1042895	186.57	ug/L	96
119)	1,2,3-trichlorobenzene	11.878	180	322316	199.62	ug/L	96
120)	hexachloroethane	10.078	119	176728	214.47	ug/L	98
121)	benzyl chloride	9.564	91	746989	198.22	ug/L	96
122)	2-ethylhexyl acrylate	11.570	70	53326	49.15	ug/L	92
123)	2-methylnaphthalene	12.789	142	289989	109.07	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310731.D
Acq On : 3 Apr 2019 10:09 pm
Operator : juntaep
Sample : ic9011-200
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 04 11:13:49 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 10:38:58 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310734.D
Acq On : 3 Apr 2019 11:30 pm
Operator : juntaep
Sample : icv9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 04 11:25:26 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.060	65	166177	500.00	ug/L	0.00
5) pentafluorobenzene	4.273	168	196118	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.844	114	290492	50.00	ug/L	0.00
73) chlorobenzene-d5	7.238	117	256499	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.432	152	108719	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.282	113	84112	52.33	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.66%			
53) 1,2-dichloroethane-d4 (s)	4.536	65	93450	48.15	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 96.30%			
74) toluene-d8 (s)	5.989	98	326320	47.31	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.62%			
97) 4-bromofluorobenzene (s)	8.316	95	116356	50.76	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.52%			
Target Compounds						Qvalue
2) 1,4-dioxane	5.277	88	42163	1274.06	ug/L	95
3) ethanol	2.485	45	231994	5533.16	ug/L	99
4) tertiary butyl alcohol	3.117	59	102533	257.39	ug/L	96
6) chlorodifluoromethane	1.651	51	164633	64.48	ug/L	99
7) dichlorodifluoromethane	1.635	85	178271	58.06	ug/L	99
8) chloromethane	1.792	50	167238	58.55	ug/L	97
9) vinyl chloride	1.879	62	154060	55.62	ug/L	98
10) bromomethane	2.126	94	54704	63.39	ug/L	97
11) chloroethane	2.209	64	79699	57.02	ug/L	97
12) vinyl bromide	2.347	106	75049	59.56	ug/L	99
13) trichlorofluoromethane	2.389	101	168333	57.43	ug/L	98
14) ethyl ether	2.575	74	64737	58.01	ug/L	98
15) 2-chloropropane	2.665	43	199622	59.52	ug/L	99
16) acrolein	2.674	56	30208	74.33	ug/L	94
17) freon 113	2.745	151	81982	61.74	ug/L	99
18) 1,1-dichloroethene	2.755	96	86849	51.93	ug/L	95
19) acetone	2.768	58	55026	209.76	ug/L	98
21) iodomethane	2.873	142	37233	66.72	ug/L	97
22) iso-butyl alcohol	4.427	43	78354	540.00	ug/L	94
23) carbon disulfide	2.928	76	271161	60.36	ug/L	99
24) methylene chloride	3.082	84	90926	53.00	ug/L	96
25) methyl acetate	2.970	74	24773	56.82	ug/L	89
26) methyl tert butyl ether	3.252	73	571277	105.13	ug/L	98
27) trans-1,2-dichloroethene	3.268	96	89618	53.65	ug/L	95
28) hexane	3.445	57	146117	56.43	ug/L	97
29) di-isopropyl ether	3.557	45	328526	52.32	ug/L	99
30) ethyl tert-butyl ether	3.801	59	311599	52.21	ug/L	99
31) 2-butanone	3.923	72	74168	223.91	ug/L	92
32) 1,1-dichloroethane	3.563	63	175854	55.01	ug/L	97
33) chloroprene	3.615	53	162468	55.91	ug/L	99
34) acrylonitrile	3.233	53	62144	60.14	ug/L	96
35) vinyl acetate	3.538	86	24830	51.85	ug/L #	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310734.D
Acq On : 3 Apr 2019 11:30 pm
Operator : juntaep
Sample : icv9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 04 11:25:26 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) ethyl acetate	3.936	45	25351	56.38	ug/L #	65
37) 2,2-dichloropropane	3.964	77	126816	50.40	ug/L	98
38) cis-1,2-dichloroethene	3.952	96	96595	52.66	ug/L	97
39) propionitrile	3.974	54	219084	536.08	ug/L	99
40) methyl acrylate	3.977	85	20433	55.20	ug/L	96
41) bromochloromethane	4.118	128	45567	54.92	ug/L	97
42) tetrahydrofuran	4.125	72	20995	55.24	ug/L	96
43) chloroform	4.173	83	158525	51.96	ug/L	99
45) methacrylonitrile	4.080	67	57331	56.12	ug/L	95
46) 1,1,1-trichloroethane	4.314	97	135401	55.22	ug/L	99
47) cyclohexane	4.369	84	135223	58.87	ug/L	94
48) 1,1-dichloropropene	4.417	75	128271	55.89	ug/L	97
49) carbon tetrachloride	4.423	117	111586	54.18	ug/L	97
50) isopropyl acetate	4.539	87	26590	52.83	ug/L	96
51) tert amyl alcohol	4.520	55	36533	288.57	ug/L	97
54) tert-amyl methyl ether	4.625	73	269992	49.26	ug/L	99
55) 2,2,4-trimethylpentane	4.629	57	229002	50.68	ug/L	97
56) n-butyl alcohol	4.901	56	260529	2767.68	ug/L	98
57) benzene	4.568	78	355210	50.80	ug/L	98
58) heptane	4.738	57	62502	61.66	ug/L	94
59) 1,2-dichloroethane	4.593	62	122416	49.96	ug/L	100
60) trichloroethene	5.036	95	95017	54.41	ug/L	98
61) ethyl acrylate	5.052	55	172747	55.78	ug/L	99
62) 2-nitropropane	5.591	41	43745	59.30	ug/L	90
63) 2-chloroethyl vinyl ether	5.617	63	388996	271.49	ug/L	100
64) methyl methacrylate	5.235	100	32038	53.71	ug/L	94
65) 1,2-dichloropropane	5.235	63	93881	51.77	ug/L	98
66) methylcyclohexane	5.226	83	136042	49.03	ug/L	99
67) dibromomethane	5.306	93	54831	50.41	ug/L	96
68) bromodichloromethane	5.421	83	121572	52.61	ug/L	96
69) cis-1,3-dichloropropene	5.765	75	154607	52.97	ug/L	98
70) epichlorohydrin	5.672	57	81495	282.38	ug/L	99
71) 4-methyl-2-pentanone	5.864	58	223050	213.72	ug/L	99
72) 3-methyl-1-butanol	5.880	70	91077	1119.73	ug/L	97
75) toluene	6.047	92	216131	49.39	ug/L	100
76) trans-1,3-dichloropropene	6.217	75	144511	53.04	ug/L	100
77) ethyl methacrylate	6.236	69	152240	54.12	ug/L	99
78) 1,1,2-trichloroethane	6.387	83	74727	51.77	ug/L	97
79) 2-hexanone	6.554	58	224105	203.29	ug/L	96
81) 1,3-dichloropropane	6.532	76	144374	49.97	ug/L	98
82) butyl acetate	6.637	56	89791	50.47	ug/L	98
83) dibromochloromethane	6.721	129	92308	53.13	ug/L	100
84) 1,2-dibromoethane	6.840	107	115650	49.83	ug/L	99
85) n-butyl ether	7.308	57	387846	55.13	ug/L	100
86) chlorobenzene	7.266	112	234628	50.17	ug/L	98
87) 1,1,1,2-tetrachloroethane	7.334	131	77259	51.58	ug/L	96
88) ethylbenzene	7.340	91	381532	49.68	ug/L	99
89) m,p-xylene	7.456	106	289322	97.12	ug/L	100
90) o-xylene	7.812	106	146426	49.73	ug/L	95
91) butyl acrylate	7.732	55	237495	54.91	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310734.D
Acq On : 3 Apr 2019 11:30 pm
Operator : juntaep
Sample : icv9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 04 11:25:26 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

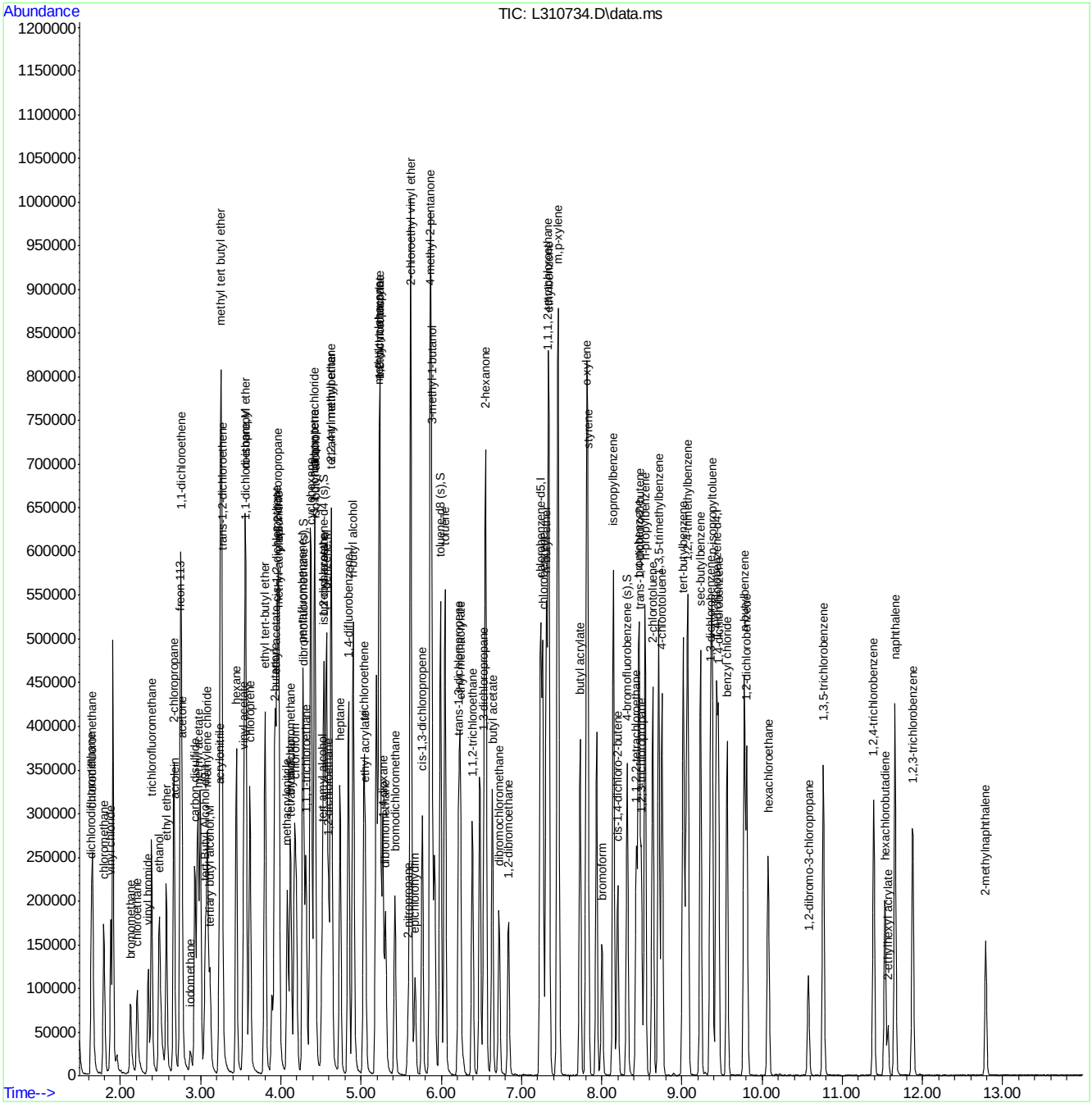
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) styrene	7.828	104	243438	51.31	ug/L	99
93) bromoform	8.004	173	69793	57.69	ug/L	98
94) isopropylbenzene	8.146	105	367859	50.89	ug/L	100
95) cis-1,4-dichloro-2-butene	8.200	88	48356	53.98	ug/L	98
98) bromobenzene	8.463	156	94716	53.08	ug/L	97
99) 1,1,2,2-tetrachloroethane	8.431	83	130849	55.37	ug/L	99
100) trans-1,4-dichloro-2-b...	8.470	53	42249	60.21	ug/L	95
101) 1,2,3-trichloropropane	8.495	110	34756	51.14	ug/L	100
102) n-propylbenzene	8.540	91	408670	51.93	ug/L	100
103) 2-chlorotoluene	8.637	126	83441	51.67	ug/L	97
104) 4-chlorotoluene	8.752	126	83867	53.84	ug/L	94
105) 1,3,5-trimethylbenzene	8.710	105	275086	52.14	ug/L	99
106) tert-butylbenzene	9.018	119	248403	54.31	ug/L	98
107) 1,2,4-trimethylbenzene	9.076	105	276100	51.83	ug/L	97
108) sec-butylbenzene	9.233	105	334106	51.97	ug/L	99
109) 1,3-dichlorobenzene	9.355	146	163591	51.33	ug/L	99
110) p-isopropyltoluene	9.378	119	268824	52.08	ug/L	98
111) 1,4-dichlorobenzene	9.455	146	155148	52.43	ug/L	98
112) 1,2-dichlorobenzene	9.808	146	151976	52.27	ug/L	97
113) n-butylbenzene	9.779	92	137649	54.35	ug/L	99
114) 1,2-dibromo-3-chloropr...	10.578	157	32637	57.22	ug/L	91
115) 1,3,5-trichlorobenzene	10.764	180	114196	53.83	ug/L	99
116) 1,2,4-trichlorobenzene	11.390	180	103381	53.20	ug/L	98
117) hexachlorobutadiene	11.534	225	41886	54.97	ug/L	95
118) naphthalene	11.656	128	328854	56.43	ug/L	99
119) 1,2,3-trichlorobenzene	11.878	180	94164	52.58	ug/L	96
120) hexachloroethane	10.074	119	51523	58.53	ug/L	96
121) benzyl chloride	9.564	91	270907	67.31	ug/L	100
122) 2-ethylhexyl acrylate	11.573	70	14566	11.83	ug/L	97
123) 2-methylnaphthalene	12.789	142	77561	28.19	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310734.D
Acq On : 3 Apr 2019 11:30 pm
Operator : juntaep
Sample : icv9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 04 11:25:26 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310735.D
Acq On : 3 Apr 2019 11:57 pm
Operator : juntaep
Sample : icv9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 04 11:17:09 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:15:15 2019
Response via : Initial Calibration

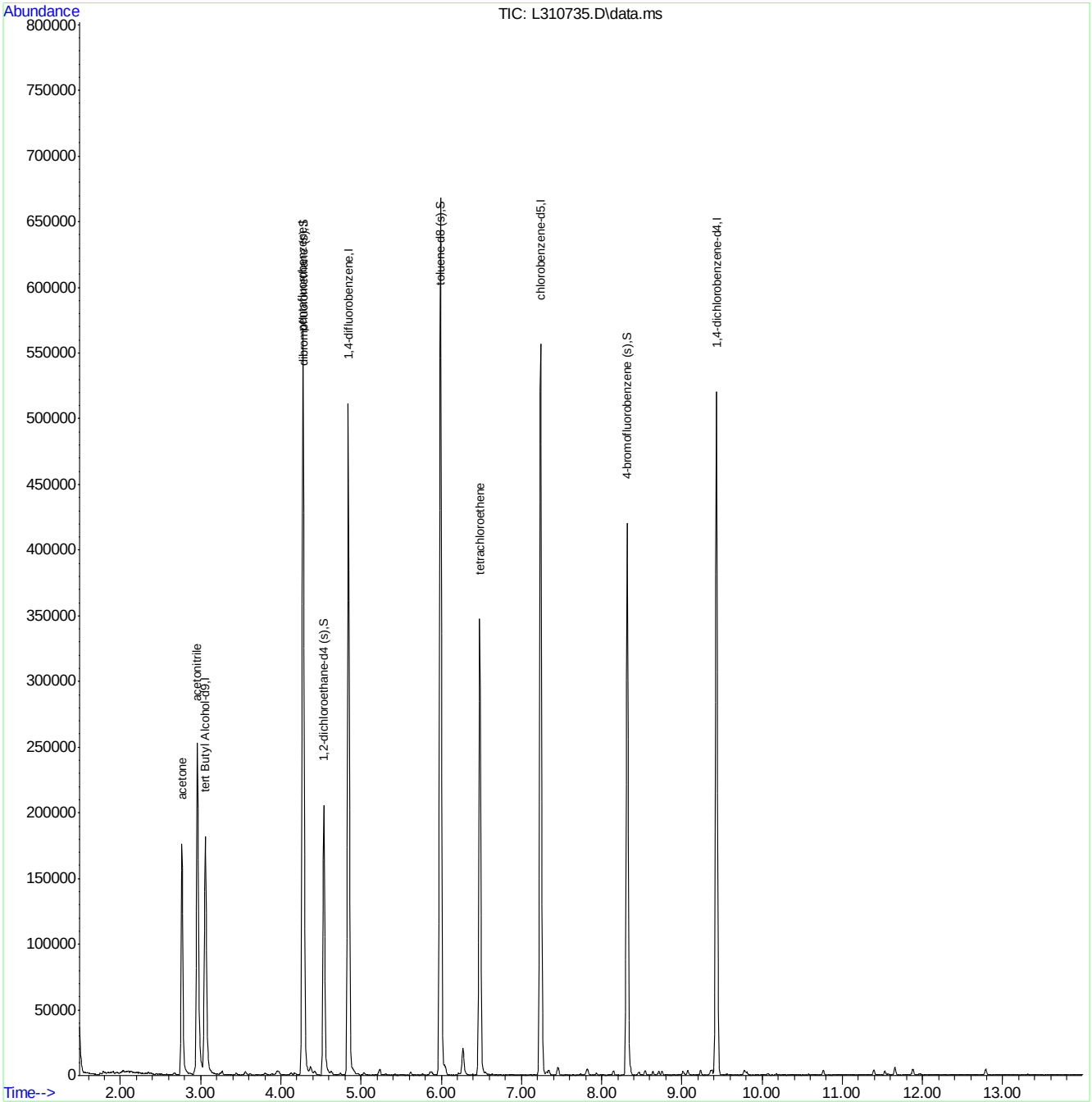
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert Butyl Alcohol-d9	3.057	65	190457	500.00	ug/L	0.00
5) pentafluorobenzene	4.273	168	241402	50.00	ug/L	0.00
52) 1,4-difluorobenzene	4.841	114	344787	50.00	ug/L	0.00
73) chlorobenzene-d5	7.238	117	284522	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	9.433	152	133761	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	4.282	113	102484	51.80	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.60%			
53) 1,2-dichloroethane-d4 (s)	4.536	65	119363	51.82	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 103.64%			
74) toluene-d8 (s)	5.989	98	401920	52.53	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.06%			
97) 4-bromofluorobenzene (s)	8.319	95	137681	48.82	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.64%			
Target Compounds						Qvalue
19) acetone	2.765	58	53567	165.89	ug/L	98
20) acetonitrile	2.957	40	132898	516.29	ug/L	97
80) tetrachloroethene	6.480	166	98313	46.39	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL9011\
Data File : L310735.D
Acq On : 3 Apr 2019 11:57 pm
Operator : juntaep
Sample : icv9011-50
Misc : MS33381,VL9011,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 04 11:17:09 2019
Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:15:15 2019
Response via : Initial Calibration



ML9011.M Mon Apr 08 07:46:07 2019 1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311758.d
Acq On : 8 May 2019 5:00 pm
Operator : deving
Sample : cc9011-50 Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 17:29:23 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert Butyl Alcohol-d9	3.069	65	152795	500.00	ug/L		0.00
5) pentafluorobenzene	4.286	168	215134	50.00	ug/L		0.01
52) 1,4-difluorobenzene	4.854	114	296241	50.00	ug/L		0.01
73) chlorobenzene-d5	7.244	117	262434	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	9.433	152	113369	50.00	ug/L		0.00
System Monitoring Compounds							
44) dibromofluoromethane (s)	4.292	113	79869	45.30	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.60%				
53) 1,2-dichloroethane-d4 (s)	4.549	65	85047	42.97	ug/L		0.01
Spiked Amount 50.000	Range 81 - 124		Recovery = 85.94%				
74) toluene-d8 (s)	5.999	98	320041	45.35	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.70%				
97) 4-bromofluorobenzene (s)	8.322	95	117578	49.19	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.38%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.287	88	41467	1362.77	ug/L		89
3) ethanol	2.489	45	204607	5307.36	ug/L		100
4) tertiary butyl alcohol	3.127	59	92936	253.73	ug/L		89
6) chlorodifluoromethane	1.651	51	133331	47.60	ug/L		98
7) dichlorodifluoromethane	1.635	85	158534	47.07	ug/L		99
8) chloromethane	1.792	50	156968	50.10	ug/L		96
9) vinyl chloride	1.879	62	177976	58.57	ug/L		98
10) bromomethane	2.126	94	51724	54.64	ug/L		99
11) chloroethane	2.213	64	84746	55.28	ug/L		99
12) vinyl bromide	2.351	106	96542	69.85	ug/L		96
13) trichlorofluoromethane	2.396	101	159245	49.52	ug/L		96
14) ethyl ether	2.582	74	63073	51.52	ug/L		96
15) 2-chloropropane	2.675	43	168726	45.86	ug/L		97
16) acrolein	2.688	56	24408	54.75	ug/L		93
17) freon 113	2.755	151	71875	49.34	ug/L		98
18) 1,1-dichloroethene	2.761	96	90668	49.42	ug/L		93
19) acetone	2.774	58	56418	196.06	ug/L		93
20) acetonitrile	2.970	40	99957	435.73	ug/L		98
21) iodomethane	2.880	142	34992	57.16	ug/L		94
22) iso-butyl alcohol	4.436	43	67238	422.43	ug/L		98
23) carbon disulfide	2.935	76	249907	50.71	ug/L		96
24) methylene chloride	3.092	84	95470	50.73	ug/L		94
25) methyl acetate	2.980	74	23351	48.83	ug/L	#	87
26) methyl tert butyl ether	3.259	73	290668	48.76	ug/L		98
27) trans-1,2-dichloroethene	3.275	96	93347	50.94	ug/L		99
28) hexane	3.454	57	125982	44.35	ug/L		97
29) di-isopropyl ether	3.567	45	313875	45.57	ug/L		96
30) ethyl tert-butyl ether	3.814	59	310190	47.38	ug/L		98
31) 2-butanone	3.936	72	71309	196.25	ug/L		90
32) 1,1-dichloroethane	3.576	63	163681	46.67	ug/L		99
33) chloroprene	3.628	53	146917	46.09	ug/L		96
34) acrylonitrile	3.239	53	53865	47.52	ug/L		100
35) vinyl acetate	3.551	86	25811	49.13	ug/L		98
36) ethyl acetate	3.945	45	20507	41.58	ug/L	#	79
37) 2,2-dichloropropane	3.971	77	131800	47.75	ug/L		97
38) cis-1,2-dichloroethene	3.961	96	101113	50.25	ug/L		92
39) propionitrile	3.987	54	197696	440.99	ug/L		98
40) methyl acrylate	3.990	85	19832	48.84	ug/L	#	78
41) bromochloromethane	4.128	128	45736	50.25	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311758.d
Acq On : 8 May 2019 5:00 pm
Operator : deving
Sample : cc9011-50 Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
Quant Results File: ML9011.RES
Quant Time: May 08 17:29:23 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) tetrahydrofuran	4.138	72	19366	46.45	ug/L	#	84
43) chloroform	4.183	83	153958	46.00	ug/L		99
45) methacrylonitrile	4.093	67	55583	49.60	ug/L		92
46) 1,1,1-trichloroethane	4.324	97	131596	48.93	ug/L		98
47) cyclohexane	4.382	84	123238	48.91	ug/L		92
48) 1,1-dichloropropene	4.430	75	121015	48.07	ug/L		96
49) carbon tetrachloride	4.436	117	105526	46.71	ug/L		95
50) isopropyl acetate	4.552	87	27963	50.65	ug/L	#	64
51) tert amyl alcohol	4.526	55	32195	231.82	ug/L		98
54) tert-amyl methyl ether	4.639	73	271662	48.61	ug/L		99
55) 2,2,4-trimethylpentane	4.642	57	204874	44.46	ug/L		97
56) n-butyl alcohol	4.915	56	235345	2451.62	ug/L		98
57) benzene	4.578	78	354646	49.73	ug/L		97
58) heptane	4.751	57	47470	45.92	ug/L		95
59) 1,2-dichloroethane	4.603	62	110493	44.22	ug/L		99
60) trichloroethene	5.046	95	93315	52.40	ug/L		97
61) ethyl acrylate	5.065	55	159071	50.37	ug/L		99
62) 2-nitropropane	5.601	41	31173	41.44	ug/L		92
63) 2-chloroethyl vinyl ether	5.630	63	352653	241.35	ug/L		98
64) methyl methacrylate	5.248	100	33876	55.69	ug/L	#	81
65) 1,2-dichloropropane	5.245	63	93446	50.53	ug/L		98
66) methylcyclohexane	5.235	83	126426	44.68	ug/L		95
67) dibromomethane	5.316	93	57075	51.45	ug/L		97
68) bromodichloromethane	5.434	83	121042	51.36	ug/L		100
69) cis-1,3-dichloropropene	5.771	75	154354	51.86	ug/L		97
70) epichlorohydrin	5.681	57	75235	255.63	ug/L		96
71) 4-methyl-2-pentanone	5.874	58	205006	192.62	ug/L		91
72) 3-methyl-1-butanol	5.893	70	82675	996.71	ug/L		92
75) toluene	6.057	92	219792	49.09	ug/L		99
76) trans-1,3-dichloropropene	6.227	75	136527	48.97	ug/L		97
77) ethyl methacrylate	6.243	69	146241	50.81	ug/L		94
78) 1,1,2-trichloroethane	6.397	83	75624	51.20	ug/L		95
79) 2-hexanone	6.561	58	208420	184.79	ug/L		91
80) tetrachloroethene	6.490	166	99081	50.68	ug/L		97
81) 1,3-dichloropropane	6.541	76	140017	47.36	ug/L		99
82) butyl acetate	6.644	56	86036	47.26	ug/L		94
83) dibromochloromethane	6.728	129	91058	51.23	ug/L		98
84) 1,2-dibromoethane	6.846	107	101760	42.86	ug/L		99
85) n-butyl ether	7.315	57	357213	49.62	ug/L		99
86) chlorobenzene	7.270	112	235332	49.19	ug/L		100
87) 1,1,1,2-tetrachloroethane	7.340	131	78178	51.02	ug/L		97
88) ethylbenzene	7.347	91	380716	48.45	ug/L		100
89) m,p-xylene	7.459	106	293177	96.19	ug/L		100
90) o-xylene	7.815	106	149337	49.57	ug/L		97
91) butyl acrylate	7.735	55	226657	51.22	ug/L		96
92) styrene	7.831	104	250610	51.62	ug/L		99
93) bromoform	8.011	173	66262	53.53	ug/L		95
94) isopropylbenzene	8.152	105	368751	49.86	ug/L		98
95) cis-1,4-dichloro-2-butene	8.204	88	45386	49.52	ug/L		97
98) bromobenzene	8.467	156	98895	53.15	ug/L		94
99) 1,1,2,2-tetrachloroethane	8.435	83	130654	53.02	ug/L		97
100) trans-1,4-dichloro-2-b...	8.470	53	34912	47.71	ug/L		95
101) 1,2,3-trichloropropane	8.499	110	34535	48.73	ug/L		95
102) n-propylbenzene	8.547	91	400656	48.82	ug/L		100
103) 2-chlorotoluene	8.640	126	85524	50.78	ug/L		97
104) 4-chlorotoluene	8.756	126	84598	52.08	ug/L		96
105) 1,3,5-trimethylbenzene	8.714	105	281004	51.08	ug/L		100

Quantitation Report (QT Reviewed)

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Quant Method : C:\MSDCHEM\1\METHODS\ML9011.M
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Quant Time: May 08 17:29:23 2019
Quant Title : SW846 Method V8260C, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Apr 04 11:19:15 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) tert-butylbenzene	9.019	119	240584	50.45	ug/L	96
107) 1,2,4-trimethylbenzene	9.076	105	281985	50.76	ug/L	96
108) sec-butylbenzene	9.237	105	332949	49.67	ug/L	99
109) 1,3-dichlorobenzene	9.362	146	167977	50.54	ug/L	97
110) p-isopropyltoluene	9.381	119	269171	50.01	ug/L	99
111) 1,4-dichlorobenzene	9.458	146	159004	51.53	ug/L	99
112) 1,2-dichlorobenzene	9.811	146	160545	52.95	ug/L	97
113) n-butylbenzene	9.779	92	138472	52.43	ug/L	100
114) 1,2-dibromo-3-chloropr...	10.578	157	33502	56.33	ug/L	99
115) 1,3,5-trichlorobenzene	10.764	180	116526	52.67	ug/L	97
116) 1,2,4-trichlorobenzene	11.393	180	109445	54.01	ug/L	96
117) hexachlorobutadiene	11.531	225	42309	53.25	ug/L	98
118) naphthalene	11.660	128	326427	53.72	ug/L	99
119) 1,2,3-trichlorobenzene	11.878	180	96869	51.87	ug/L	99
120) hexachloroethane	10.078	119	48514	52.85	ug/L	97
121) benzyl chloride	9.564	91	237064	56.48	ug/L	99
122) 2-ethylhexyl acrylate	11.570	70	14576	11.35	ug/L	90
123) 2-methylnaphthalene	12.789	142	75113	26.18	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nizele\5_may\5-10-19\vl9062\
Data File : l311758.d
Acq On : 8 May 2019 5:00 pm
Operator : deving
Sample : cc9011-50 Inst : GCMSL
Misc : MS34535,VL9062,5,,,,1
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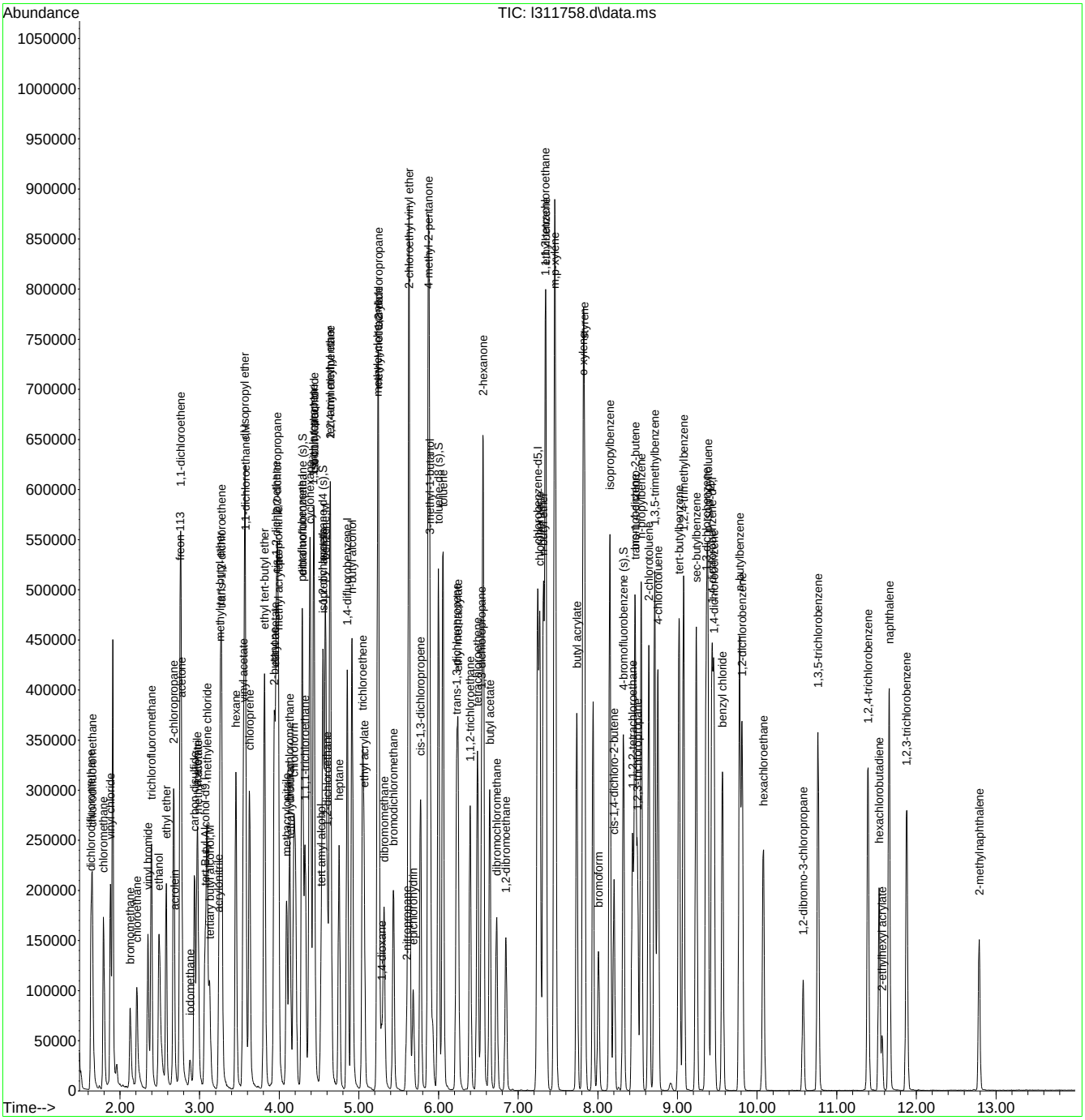


GCMS Volatile Run Log

Standard / Reagents	Lot #				Column	Rxi-624(60mx0.25mmx1.4um)
Standard	ABK: V018-2648-40.35	EC: V019-2648-53.11	Acrolein: V019-2648-21.5	3rd Acetone V019-26	Method	V8260C
Standard Concentration	100-10,000ppm	100ppm	100ppm	400ppm	Init Calib Date	4/3/2019
Standard	Ext. ABK: V019-2648-52.1	Ext. EC: V019-2648-47.7	Ext. Acrolein: V019-2648-	PA: V019-2648-22.3		
Standard Concentration	100-10,000ppm	100ppm	100ppm	100/1000ppm		
Internal Surrogate	V019-2648-31				Analysis Date	4/3/2019
Internal Surrogate Concentration	50/500ppm				Sequence loaded by	Austin Park
					Data processed by	.Robert Szot
Prepped by	Prashant S				Batch ID	VL9011
					Matrix	AQ
Initial Calibration Method	ML9011				Approved By:	KANYAV
					Approved Date:	4/5/2019 6:24:19 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
I	310721	BFB		NA		V8260 AQ Initial Cal.	5			1	ok	
I	310722	IC9011-0.2		NA		V8260 AQ Initial Cal.	5			2	ok	0.2uL ABK, EC, Acrolein/100mL DI H2O.
I	310723	IC9011-0.5		NA		V8260 AQ Initial Cal.	5			3	ok	0.5uL ABK, EC, Acrolein/100mL DI H2O.
I	310724	IC9011-1		NA		V8260 AQ Initial Cal.	5			4	ok	1uL ABK, EC, Acrolein/100mL DI H2O.
I	310725	IC9011-2		NA		V8260 AQ Initial Cal.	5			5	ok	2uL ABK, EC, Acrolein/100mL DI H2O.
I	310726	IC9011-4		NA		V8260 AQ Initial Cal.	5			6	ok	4uL ABK, EC, Acrolein/100mL DI H2O.
I	310727	IC9011-8		NA		V8260 AQ Initial Cal.	5			7	ok	8uL ABK, EC, Acrolein/100mL DI H2O.
I	310728	IC9011-20		NA		V8260 AQ Initial Cal.	5			8	ok	20uL ABK, EC, Acrolein/100mL DI H2O.
I	310729	ICC9011-50		NA		V8260 AQ Initial Cal.	5			9	ok	50uL ABK, EC, Acrolein/100mL DI H2O.
I	310730	IC9011-100		NA		V8260 AQ Initial Cal.	5			10	ok	100uL ABK, EC, Acrolein/100mL DI H2O.
I	310731	IC9011-200		NA		V8260 AQ Initial Cal.	5			11	ok	200uL ABK, EC, Acrolein/100mL DI H2O.

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
I	310732	IB		NA		V8260 AQ Initial Cal.	5			12	ok	
I	310733	IB		NA		V8260 AQ Initial Cal.	5			13	ok	
I	310734	ICV9011-50		NA		V8260 AQ Initial Cal.	5			14	ok	50uL Ext. ABK, EC, Acrolein/100mL DI H2O.
I	310735	ICV9011-50		NA		V8260 AQ Initial Cal.	5			15	ok	50uL PA, 3rd Acetone/100mL DI H2O.

GCMS Volatile Run Log

Standard / Reagents	Lot #				Column	Rxi-624(30mx0.25mmx1.4um)
Standard	ABK: V019-2648-72.55	EC: V019-2648-92.3	Acrolein: V019-2648-88.1		Method	V8260C
Standard Concentration	100-10,000ppm	100ppm	100ppm		Init Calib Date	4/2/2019
Internal Surrogate	V019-2648-64					
Internal Surrogate Concentration	50/500ppm					
					Analysis Date	5/8/2019
dilutions & MS/MSD made by	Devin Gomez				Sequence loaded by	Devin Gomez
					Data processed by	nizele
					Batch ID	VL9062
Rough Reviewed	Bridget Kelly				Matrix	AQ
Initial Calibration Method	ML9011				Approved By:	KANYAV
pH Paper Lot#	217518				Approved Date:	5/10/2019 3:37:41 AM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
L	311757	IB		NA			5			1	ok	
L	311758	BFB/CC9011-50		NA			5			2	ok/ok	50uL ABK, EC, Acrolein/100mL (5:00pm)
L	311759	BS		NA			5			3	ok	50uL ABK, EC, Acrolein/100mL
L	311760	BSD		NA			5			4	ok	50uL ABK, EC, Acrolein/100mL
L	311761	IB		NA			5			5	ok	
L	311762	MB		NA			5			6	ok	
L	311763	JC87593-2	2	10X	MS34567	V8260MCP	5/50		1	7	ok	
L	311764	JC87593-2MS	2	10X	MS34567	V8260MCP	5/50		1	8	ok	50uL ABK, EC, Acrolein/100mL
L	311765	JC87593-2MSD	2	10X	MS34567	V8260MCP	5/50		1	9	ok	50uL ABK, EC, Acrolein/100mL
L	311766	IB		NA			5			10	ok	
L	311767	JC87593-1	2	NA	MS34567	V8260MCP	5		1	11	ok	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
L	311768	JC87593-3	2	NA	MS34567	V8260MCP	5		1	12	ok	
L	311769	JC87667-4	2	NA	MS34606	V8260TCL11	5		1	13	ok	
L	311770	JC87667-5	7	NA	MS34606	V8260TCL11	5		1	14	ok	
L	311771	JC87667-1	7	NA	MS34606	V8260TCL11	5		1	15	ok	
L	311772	JC87667-2	7	NA	MS34606	V8260TCL11	5		1	16	ok	
L	311773	JC87667-3	8	NA	MS34606	V8260TCL11	5		1	17	ok	
L	311774	JC87684-1	2	NA	MS34605	V8260TCL20+	5		1	18	ok	
L	311775	JC87684-2	1	NA	MS34605	V8260TCL20+	5		1	19	ok	
L	311776	JC87684-3	2	NA	MS34605	V8260TCL20+	5		1	20	ok	
L	311777	JC87684-4	1	NA	MS34605	V8260TCL20+	5		1	21	ok	
L	311778	JC87685-1	4	NA	MS34605	V8260TCL20+	5		1	22	ok	
L	311779	JC87685-2	4	NA	MS34605	V8260TCL20+	5		1	23	ok	
L	311780	JC87647-1	1	NA	MS34592	V8260STD	5		5	24	ok	
L	311781	JC87647-2	1	NA	MS34592	V8260STD	5		5	25	ok	3:56am

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Dissolved Organic Carbon	GP21380/GN95595	1.0	0.0	mg/l	10	10.3	103.0	90-110%
Iron, Ferrous	GN95038	0.20	0.0	mg/l	3.0	2.9	96.7	85-115%
Nitrogen, Nitrate + Nitrite	GP21328/GN95545	0.10	0.0	mg/l	2	1.85	92.5	90-110%
Nitrogen, Nitrite	GN95104	0.010	0.0	mg/l	0.04	0.038	95.0	90-110%
Sulfate	GP21267/GN95355	2.0	0.0	mg/l	80	79.9	99.9	90-110%
Total Organic Carbon	GP21322/GN95462	1.0	0.0	mg/l	10	9.70	97.0	90-110%

Associated Samples:
Batch GN95038: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GN95104: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21267: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21322: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21328: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21380: JC87667-1F, JC87667-2F, JC87667-3F, JC87667-5F
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Iron, Ferrous	GN95038	JC87427-3	mg/l	0.029 U	0.0	0.0	0-28%
Nitrogen, Nitrate + Nitrite	GP21328/GN95545	JC87667-1	mg/l	7.8	7.6	11.1	0-33%
Nitrogen, Nitrite	GN95104	JC87695-11	mg/l	0.0	0.0	0.0	0-11%
Sulfate	GP21267/GN95355	JC87662-1	mg/l	17.6	19.5	10.2	0-20%

Associated Samples:
Batch GN95038: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GN95104: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21267: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21328: JC87667-1, JC87667-2, JC87667-3, JC87667-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Dissolved Organic Carbon	GP21380/GN95595	JC87695-6F	mg/l	2.2	10	13.3	111.0	66-128%
Iron, Ferrous	GN95038	JC87427-3	mg/l	0.029 U	3.0	3.2	106.7	92-113%
Nitrogen, Nitrate + Nitrite	GP21328/GN95545	JC87667-1	mg/l	7.8	1	8.9	210.0(a)	90-110%
Nitrogen, Nitrite	GN95104	JC87695-11	mg/l	0.0	0.04	0.044	110.0	22-140%
Sulfate	GP21267/GN95355	JC87662-1	mg/l	17.6	80	98.1	100.6	80-120%
Total Organic Carbon	GP21322/GN95462	JC87667-2	mg/l	0.0	10	11.6	116.0	71-132%

Associated Samples:
Batch GN95038: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GN95104: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21267: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21322: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21328: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21380: JC87667-1F, JC87667-2F, JC87667-3F, JC87667-5F
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Dissolved Organic Carbon	GP21380/GN95595	JC87695-6F	mg/l	2.2	10	13.5	1.5	20%
Iron, Ferrous	GN95038	JC87427-3	mg/l	0.029 U	3.0	3.2	0.0	20%
Total Organic Carbon	GP21322/GN95462	JC87667-2	mg/l	0.0	10	11.8	1.7	10%

Associated Samples:
Batch GN95038: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21322: JC87667-1, JC87667-2, JC87667-3, JC87667-5
Batch GP21380: JC87667-1F, JC87667-2F, JC87667-3F, JC87667-5F
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: 219051501.TXT Date Analyzed: 05/15/19 Methods: EPA 300/SW846 9056A
Analyst: NV Run ID: GN95355
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:27	GN95355-STD1	1		Manually integrated chrom. peaks reviewed and verified to comply with criteria of Accutest SOP EQA044.
10:51	GN95355-STD2	1		RT: Chl=4.605 min So4=6.445 min Bro=8.183 min
11:14	GN95355-STD3	1		STDC
11:38	GN95355-STD4	1		STDCD
12:02	GN95355-STD5	1		STDD
12:26	GN95355-STD6	1		STDDE
12:50	GN95355-STD7	1		STDE
13:14	GN95355-STD8	1		STDF
13:38	GN95355-STD9	1		STDG
09:40	GN95355-ICV1	1		
10:04	GN95355-CCV1	1		
10:28	GN95355-CCB1	1		
10:52	GP21255-MB1	1		
10:52	GP21231-MB2	1		
11:16	GP21255-B1	1		
11:16	GP21231-B2	1		
12:27	ZZZZZZ	25		
12:51	ZZZZZZ	10		
13:15	ZZZZZZ	10		
13:39	ZZZZZZ	10		
14:03	ZZZZZZ	10		
14:27	ZZZZZZ	10		
14:50	ZZZZZZ	10		
15:14	ZZZZZZ	10		
15:41	GN95355-CCV2	1		
16:05	GN95355-CCB2	1		
16:29	ZZZZZZ	10		
16:53	ZZZZZZ	10		
17:16	ZZZZZZ	10		
17:40	GP21255-S1	10		
18:04	GP21255-D1	10		see rerun
18:28	JC87644-1	10		(sample used for QC only; not part of login JC87667)
18:52	GP21255-S2	10		Over calibration curve. See rerun at dilution for chl. reporting for so4 and bro

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: 219051501.TXT Date Analyzed: 05/15/19 Methods: EPA 300/SW846 9056A
Analyst: NV Run ID: GN95355
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:16	JC87644-2	10		(sample used for QC only; not part of login JC87667)
19:40	ZZZZZZ	10		
20:04	ZZZZZZ	10		
20:28	GN95355-CCV3	1		
20:52	GN95355-CCB3	1		
21:16	ZZZZZZ	10		
21:40	ZZZZZZ	10		
22:04	ZZZZZZ	10		
22:27	ZZZZZZ	10		
22:51	GP21267-MB1	1		
23:15	GP21267-B1	1		
23:39	ZZZZZZ	1		
00:03	ZZZZZZ	1		
00:27	ZZZZZZ	1		
00:51	ZZZZZZ	1		
01:15	GN95355-CCV4	1		
01:39	GN95355-CCB4	1		
02:03	ZZZZZZ	1		
02:27	GP21267-S1	1		
02:51	GP21267-D1	1		
03:15	JC87662-1	1		(sample used for QC only; not part of login JC87667)
03:39	GP21267-S2	1		
04:02	JC87662-2	1		(sample used for QC only; not part of login JC87667)
04:26	ZZZZZZ	1		
04:50	ZZZZZZ	1		
05:14	ZZZZZZ	1		
05:38	ZZZZZZ	1		
06:02	GN95355-CCV5	1		
06:26	GN95355-CCB5	1		
06:50	ZZZZZZ	1		
07:14	ZZZZZZ	1		
07:38	ZZZZZZ	1		
08:02	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: 219051501.TXT Date Analyzed: 05/15/19 Methods: EPA 300/SW846 9056A
Analyst: NV Run ID: GN95355
Parameters: Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:26	ZZZZZZ	1		
08:50	JC87667-1	1		
09:13	JC87667-2	1		
09:37	JC87667-3	1		
10:01	JC87667-5	1		
10:25	GN95355-CCV6	1		
10:49	GN95355-CCB6	1		
11:43	ZZZZZZ	25		
12:41	ZZZZZZ	25		
13:04	ZZZZZZ	25		
14:17	GP21255-D1	10		
14:41	JC87644-1	10		(sample used for QC only; not part of login JC87667)
15:05	GP21255-S2	20		
15:29	ZZZZZZ	1		
15:53	GN95355-CCV7	1		
16:17	GN95355-CCB7	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: 219051501.TXT Date Analyzed: 05/15/19 Methods: EPA 300/SW846 9056A
Run ID: GN95355 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN95355-ICV1	Sulfate	100	2.0	0.38	100	100.0	90-110
GN95355-CCV1	Sulfate	200	2.0	0.38	200	100.0	90-110
GN95355-CCB1	Sulfate	0.38 U	2.0	0.38			
GN95355-CCV2	Sulfate	200	2.0	0.38	200	100.0	90-110
GN95355-CCB2	Sulfate	0.38 U	2.0	0.38			
GN95355-CCV3	Sulfate	201	2.0	0.38	200	100.5	90-110
GN95355-CCB3	Sulfate	0.38 U	2.0	0.38			
GN95355-CCV4	Sulfate	201	2.0	0.38	200	100.5	90-110
GN95355-CCB4	Sulfate	0.38 U	2.0	0.38			
GN95355-CCV5	Sulfate	201	2.0	0.38	200	100.5	90-110
GN95355-CCB5	Sulfate	0.38 U	2.0	0.38			
GN95355-CCV6	Sulfate	201	2.0	0.38	200	100.5	90-110
GN95355-CCB6	Sulfate	0.38 U	2.0	0.38			
GN95355-CCV7	Sulfate	199	2.0	0.38	200	99.5	90-110
GN95355-CCB7	Sulfate	0.38 U	2.0	0.38			

(!) Outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E90517W1.TXT Date Analyzed: 05/17/19 Methods: SM5310 B-11
Analyst: CD Run ID: GN95462
Parameters: Total Organic Carbon

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:30	GN95462-STD1	1		STDA
11:44	GN95462-STD2	1		STDB
11:55	GN95462-STD3	1		STDC
12:06	GN95462-STD4	1		STDD
12:18	GN95462-STD5	1		STDE
12:30	GN95462-STD6	1		STDF
12:42	GN95462-STD7	1		STDG
12:54	GN95462-STD8	1		STDH
14:53	ZZZZZZ	1		
15:02	GN95462-CRI1	1		
15:45	GN95462-HSTD1	1		
15:56	GN95462-ICV1	1		
16:08	GN95462-ICB1	1		
16:18	GN95462-CCV1	1		
16:31	GN95462-CCB1	1		
16:40	ZZZZZZ	1		
16:51	GP21320-MB1	1		
17:02	GP21320-B1	1		
17:13	ZZZZZZ	1		
17:25	JC87644-1	1		(sample used for QC only; not part of login JC87667)
17:36	GP21320-S1	1		
17:47	GP21320-MSD1	1		
17:58	ZZZZZZ	1		
18:09	ZZZZZZ	1		
18:20	ZZZZZZ	1		
18:32	GN95462-CCVA1	1		
18:45	GN95462-CCB2	1		
18:54	ZZZZZZ	1		
19:05	ZZZZZZ	1		
19:16	ZZZZZZ	1		
19:27	ZZZZZZ	1		
19:40	GP21321-MB1	1		
19:50	GP21321-B1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E90517W1.TXT Date Analyzed: 05/17/19 Methods: SM5310 B-11
Analyst: CD Run ID: GN95462
Parameters: Total Organic Carbon

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:01	ZZZZZZ	1		
20:12	ZZZZZZ	1		
20:23	ZZZZZZ	1		
20:34	ZZZZZZ	1		
20:46	GN95462-CCV2	1		
21:07	GN95462-CCB3	1		
21:16	ZZZZZZ	1		
21:28	ZZZZZZ	1		
21:39	ZZZZZZ	1		
21:51	ZZZZZZ	1		
22:01	ZZZZZZ	1		
22:12	JC87015-16	1		(sample used for QC only; not part of login JC87667)
22:24	GP21321-S1	1		
22:35	GP21321-MSD1	1		
22:47	GN95462-CCVA2	1		
22:59	GN95462-CCB4	1		
23:10	GP21322-MB1	1		
23:20	GP21322-B1	1		
23:31	JC87667-1	1		
23:42	JC87667-2	1		
23:53	GP21322-S1	1		
00:05	GP21322-MSD1	1		
00:15	JC87667-3	1		
00:26	JC87667-5	1		
00:38	GN95462-CCV3	1		
00:49	GN95462-CCB5	1		
01:00	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E90517W1.TXT Date Analyzed: 05/17/19 Methods: SM5310 B-11
Run ID: GN95462 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN95462-CRI1	Total Organic Carbon	0.837	1.0	0.72	1	83.7	70-130
GN95462-HSTD1	Total Organic Carbon	48.5	1.0	0.72	50	97.0	90-110
GN95462-ICV1	Total Organic Carbon	18.2	1.0	0.72	20	91.0	90-110
GN95462-ICB1	Total Organic Carbon	0.72 U	1.0	0.72			
GN95462-CCV1	Total Organic Carbon	23.8	1.0	0.72	25	95.2	90-110
GN95462-CCB1	Total Organic Carbon	0.72 U	1.0	0.72			
GN95462-CCVA1	Total Organic Carbon	48.6	1.0	0.72	50	97.2	
GN95462-CCB2	Total Organic Carbon	0.72 U	1.0	0.72			
GN95462-CCV2	Total Organic Carbon	23.9	1.0	0.72	25	95.6	90-110
GN95462-CCB3	Total Organic Carbon	0.72 U	1.0	0.72			
GN95462-CCVA2	Total Organic Carbon	49.0	1.0	0.72	50	98.0	
GN95462-CCB4	Total Organic Carbon	0.72 U	1.0	0.72			
GN95462-CCV3	Total Organic Carbon	23.9	1.0	0.72	25	95.6	90-110
GN95462-CCB5	Total Organic Carbon	0.72 U	1.0	0.72			

(!) Outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E052019W1.NO32 Date Analyzed: 05/20/19 Methods: EPA 353.2/LACHAT
Analyst: KI Run ID: GN95545
Parameters: Nitrogen, Nitrate + Nitrite

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:42	GN95545-STD1	1		STDA
11:43	GN95545-STD2	1		STDB
11:44	GN95545-STD3	1		STDC
11:46	GN95545-STD4	1		STDD
11:47	GN95545-STD5	1		STDE
11:48	GN95545-STD6	1		STDF
11:49	GN95545-STD7	1		STDG
11:51	GN95545-ICV1	1		
11:52	GN95545-ICB1	1		
11:53	GN95545-CCV1	1		
11:55	GN95545-CCB1	1		
11:56	GP21326-MB1	1		
11:57	GP21326-B1	1		
11:58	GP21326-S1	1		
11:59	GP21326-S2	1		
12:00	GP21326-D1	1		
12:01	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:06	JC87579-6	1		(sample used for QC only; not part of login JC87667)
12:07	GN95545-CCV2	1		
12:08	GN95545-CCB2	1		
12:09	ZZZZZZ	1		
12:10	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:13	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:15	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:18	ZZZZZZ	1		
12:19	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E052019W1.NO32 Date Analyzed: 05/20/19 Methods: EPA 353.2/LACHAT
Analyst: KI Run ID: GN95545
Parameters: Nitrogen, Nitrate + Nitrite

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:20	GN95545-CCV3	1		
12:22	GN95545-CCB3	1		
12:23	JC85550-3	1		(sample used for QC only; not part of login JC87667)
12:24	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:28	GP21327-MB1	1		
12:29	GP21327-B1	1		
12:30	GP21327-S1	1		
12:32	GP21327-S2	1		
12:33	GP21327-D1	1		
12:34	GN95545-CCV4	1		
12:35	GN95545-CCB4	1		
12:36	ZZZZZZ	1		
12:37	JC87644-1	1		(sample used for QC only; not part of login JC87667)
12:38	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:42	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:44	JC87656-2	1		(sample used for QC only; not part of login JC87667)
12:45	ZZZZZZ	1		
12:46	ZZZZZZ	1		
12:47	GN95545-CCV5	1		
12:48	GN95545-CCB5	1		
12:50	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:56	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E052019W1.NO32 Date Analyzed: 05/20/19 Methods: EPA 353.2/LACHAT
Analyst: KI Run ID: GN95545
Parameters: Nitrogen, Nitrate + Nitrite

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:57	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:01	GN95545-CCV6	1		
13:02	GN95545-CCB6	1		
13:03	GP21328-MB1	1		
13:04	GP21328-B1	1		
13:05	GP21328-S1	1		Over calibration curve. See rerun at dilution.
13:06	GP21328-S2	1		
13:08	GP21328-D1	1		Over calibration curve. See rerun at dilution.
13:09	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:13	JC87667-1	1		Over calibration curve. See rerun at dilution.
13:14	GN95545-CCV7	1		
13:15	GN95545-CCB7	1		
13:17	JC87667-2	1		Over calibration curve. See rerun at dilution.
13:18	JC87667-3	1		Over calibration curve. See rerun at dilution.
13:19	JC87667-5	1		
13:20	JC87668-1	1		(sample used for QC only; not part of login JC87667)
13:21	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:28	GN95545-CCV8	1		
13:29	GN95545-CCB8	1		
13:30	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:33	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E052019W1.NO32 Date Analyzed: 05/20/19 Methods: EPA 353.2/LACHAT
Analyst: KI Run ID: GN95545
Parameters: Nitrogen, Nitrate + Nitrite

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:35	ZZZZZZ	1		
13:36	GP21329-MB1	1		
13:37	GP21329-B1	1		
13:38	GP21329-S1	1		
13:39	GP21329-D1	1		
13:40	ZZZZZZ	1		
13:41	GN95545-CCV9	1		
13:42	GN95545-CCB9	1		
13:44	ZZZZZZ	1		
13:45	ZZZZZZ	1		
13:46	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:48	JC85550-13	1		(sample used for QC only; not part of login JC87667)
13:49	ZZZZZZ	1		
13:50	ZZZZZZ	1		
13:51	ZZZZZZ	1		
13:52	ZZZZZZ	2		
13:54	ZZZZZZ	4		
13:55	GN95545-CCV10	1		
13:56	GN95545-CCB10	1		
13:57	GP21328-S1	2		1:2 dilution
13:58	GP21328-S1	4		1:4 dilution
13:59	GP21328-D1	2		1:2 dilution
14:00	GP21328-D1	4		1:4 dilution
14:01	JC87667-1	2		1:2 dilution
14:03	JC87667-1	4		1:4 dilution
14:04	JC87667-2	2		1:2 dilution
14:05	JC87667-2	4		1:4 dilution
14:06	JC87667-3	2		1:2 dilution
14:07	JC87667-3	4		1:4 dilution
14:10	GN95545-CCV11	1		
14:11	GN95545-CCB11	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E052019W1.NO32 Date Analyzed: 05/20/19 Methods: EPA 353.2/LACHAT
Run ID: GN95545 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN95545-ICV1	Nitrogen, Nitrate + Nitrite	2.01	0.10	0.090	2	100.5	90-110
GN95545-ICB1	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV1	Nitrogen, Nitrate + Nitrite	2.62	0.10	0.090	2.5	104.8	90-110
GN95545-CCB1	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV2	Nitrogen, Nitrate + Nitrite	2.63	0.10	0.090	2.5	105.2	90-110
GN95545-CCB2	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV3	Nitrogen, Nitrate + Nitrite	2.62	0.10	0.090	2.5	104.8	90-110
GN95545-CCB3	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV4	Nitrogen, Nitrate + Nitrite	2.64	0.10	0.090	2.5	105.6	90-110
GN95545-CCB4	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV5	Nitrogen, Nitrate + Nitrite	2.60	0.10	0.090	2.5	104.0	90-110
GN95545-CCB5	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV6	Nitrogen, Nitrate + Nitrite	2.64	0.10	0.090	2.5	105.6	90-110
GN95545-CCB6	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV7	Nitrogen, Nitrate + Nitrite	2.62	0.10	0.090	2.5	104.8	90-110
GN95545-CCB7	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV8	Nitrogen, Nitrate + Nitrite	2.63	0.10	0.090	2.5	105.2	90-110
GN95545-CCB8	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV9	Nitrogen, Nitrate + Nitrite	2.63	0.10	0.090	2.5	105.2	90-110
GN95545-CCB9	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV10	Nitrogen, Nitrate + Nitrite	2.61	0.10	0.090	2.5	104.4	90-110
GN95545-CCB10	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			
GN95545-CCV11	Nitrogen, Nitrate + Nitrite	2.62	0.10	0.090	2.5	104.8	90-110
GN95545-CCB11	Nitrogen, Nitrate + Nitrite	0.090 U	0.10	0.090			

(!) Outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E90521W1.TXT Date Analyzed: 05/21/19 Methods: SM5310 B-11
Analyst: CD Run ID: GN95595
Parameters: Dissolved Organic Carbon

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:23	GN95595-STD1	1		STDA
11:39	GN95595-STD2	1		STDB
11:56	GN95595-STD3	1		STDC
12:15	GN95595-STD4	1		STDD
12:26	GN95595-STD5	1		STDE
12:38	GN95595-STD6	1		STDF
12:50	GN95595-STD7	1		STDG
13:01	GN95595-STD8	1		STDH
13:36	GN95595-ICV1	1		
13:52	GN95595-ICB1	1		
14:00	GN95595-CCV1	1		
14:12	GN95595-CCB1	1		
14:27	ZZZZZZ	1		
14:36	GP21321-MB2	1		
14:46	GP21321-B2	1		
15:38	ZZZZZZ	3		
15:55	GP21380-MB1	1		
16:05	GP21380-B1	1		
16:42	JC87667-1F	1		
16:54	JC87667-2F	1		
17:08	JC87667-3F	1		average of 3 injections
17:20	JC87667-5F	1		
17:31	GN95595-CCVA1	1		
17:48	GN95595-CCB2	1		
17:57	ZZZZZZ	1		
18:07	ZZZZZZ	1		
18:19	ZZZZZZ	1		
18:31	ZZZZZZ	1		
18:41	ZZZZZZ	1		
19:04	JC87695-6F	1		(sample used for QC only; not part of login JC87667)
19:16	GP21380-S1	1		
19:28	GP21380-MSD1	1		
19:39	GN95595-CCV2	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E90521W1.TXT Date Analyzed: 05/21/19 Methods: SM5310 B-11
Analyst: CD Run ID: GN95595
Parameters: Dissolved Organic Carbon

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:54	GN95595-CCB3	1		
20:07	GP21381-MB1	1		
20:16	GP21381-B1	1		
20:27	ZZZZZZ	1		
20:38	ZZZZZZ	1		
20:50	ZZZZZZ	1		
21:02	ZZZZZZ	1		
21:12	JC87695-11F	1		(sample used for QC only; not part of login JC87667)
21:24	GP21381-S1	1		overrange;rerun 1:50
21:35	GP21381-MSD1	1		overrange;rerun 1:50
21:45	ZZZZZZ	1		
21:57	GN95595-CCVA2	1		
22:12	GN95595-CCB4	1		
22:20	ZZZZZZ	1		
22:32	ZZZZZZ	1		
22:43	GN95595-CCV3	1		
22:56	GN95595-CCB5	1		
23:09	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JC87667
Account: FLSNYNY - Fleming-Lee Shue, Inc.
Project: 388 Bridge Street, Brooklyn, NY

File ID: E90521W1.TXT Date Analyzed: 05/21/19 Methods: SM5310 B-11
Run ID: GN95595 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN95595-ICV1	Total Organic Carbon	18.6	1.0	0.72	20	93.0	90-110
GN95595-ICB1	Total Organic Carbon	0.72 U	1.0	0.72			
GN95595-CCV1	Total Organic Carbon	24.6	1.0	0.72	25	98.4	90-110
GN95595-CCB1	Total Organic Carbon	0.72 U	1.0	0.72			
GN95595-CCVA1	Total Organic Carbon	49.2	1.0	0.72	50	98.4	
GN95595-CCB2	Total Organic Carbon	0.72 U	1.0	0.72			
GN95595-CCV2	Total Organic Carbon	24.6	1.0	0.72	25	98.4	90-110
GN95595-CCB3	Total Organic Carbon	0.72 U	1.0	0.72			
GN95595-CCVA2	Total Organic Carbon	50.6	1.0	0.72	50	101.2	
GN95595-CCB4	Total Organic Carbon	0.72 U	1.0	0.72			
GN95595-CCV3	Total Organic Carbon	25.1	1.0	0.72	25	100.4	90-110
GN95595-CCB5	Total Organic Carbon	0.72 U	1.0	0.72			

(!) Outside of QC limits

General Chemistry

Raw Data

SGS

Test: Iron, Ferrous
Product: FE2
Method: SM3500FE D-11 ◉ Units: mg/l

Analyst: JOHN
GN Batch ID: GN95038
GP Batch ID:
Date: 5/7/2019
Instrument ID: N

Original Calibration Information Calibration Date: 2/9/2019

	Blank	Std 1	Std 2	Std 3	Std 4	Std 5	Std 6	Std 7
Known:	0.000	0.100	0.200	0.500	1.000	2.000	4.000	6.000
Absorbance:	0.000	0.014	0.022	0.055	0.112	0.225	0.448	0.658
Actual Value:	-0.016	0.111	0.184	0.484	1.001	2.027	4.051	5.957

Continuing Calibration Check Standards Data:

	Blank	Std 1	Std 6
Known:	0.000	0.100	6.000
Absorbance:	0.000	0.012	0.675
Recovery:	0.0%	93.3%	101.9%
Actual Value:	-0.016	0.093	6.112

Correlation Coeff. = 0.99991
Slope = 9.07769
Intercept = -0.01565

Bottle #	Sample ID	Time Analyzed	Initial Wt (g) or Vol (ml)	Final Vol (ml)	Dilution	Sample Abs	Background Abs.	Result From Curve (mg/L)	Final Result	RL (Normal RL = 0.200 mg/l)	Units	Factor	pH Adjust
	ICV	20:05	50	50	1	0.115	NA	1.028	1.028	NA	mg/l	NA	NA
	CCV		50	50	1	0.114	NA	1.019	1.019	NA	mg/l	NA	NA
	GN95038-MB1		50	50	1	0.000	0.000	-0.016	-0.016	0.200	mg/l	1	NA
	GN95038-B1		50	50	1	0.325	0.000	2.935	2.935	0.200	mg/l	1	NA
*18	GN95038-D1		50	50	1	0.003	0.001	0.003	0.003	0.200	mg/l	1	NA
*18	GN95038-S1		50	50	1	0.358	0.001	3.225	3.225	0.200	mg/l	1	NA
*18	GN95038-DS1		50	50	1	0.351	0.001	3.162	3.162	0.200	mg/l	1	NA
4	JC87427-1		50	50	1	0.566	0.122	4.015	4.015	0.200	mg/l	1	NA
4	JC87427-2		50	50	1	0.408	0.049	3.243	3.243	0.200	mg/l	1	NA
*18	JC87427-3		50	50	1	0.002	0.001	-0.007	-0.007	0.200	mg/l	1	NA
2	JC87667-1		50	50	1	0.002	0.001	-0.007	-0.007	0.200	mg/l	1	NA
2	JC87667-2		50	50	1	0.001	0.000	-0.007	-0.007	0.200	mg/l	1	NA
	CCV	20:18	50	50	1	0.668	NA	6.048	6.048	NA	mg/l	NA	NA
3	JC87667-3		50	50	1	0.002	0.001	-0.007	-0.007	0.200	mg/l	1	NA
3	JC87667-5		50	50	1	0.005	0.003	0.003	0.003	0.200	mg/l	1	NA
			50	50	1								NA
			50	50	1								NA
			50	50	1								NA
			50	50	1								NA
			50	50	1								NA
			50	50	1								NA
			50	50	1								NA
			50	50	1								NA

QC: JC87427-3

B1/S1/DS1: 1.5 mL of 200 mg/L ⇒ 100 mL DI/Sample

Analyst: John Date: 5/7/19 QC Reviewer: Date: 5/8/19

SGS

Test: Iron, Ferrous
Product: FE2
Method: SM3500FE D-11 ◉ Units: mg/l

Analyst: JOHN
GN Batch ID: GN95038
GP Batch ID:
Date: 5/7/2019
Instrument ID: N

	CCV	20:23	50	50	1	0.114	NA	1.019	1.019	NA	mg/l	NA	NA
			50	50	1								NA
			50	50									NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
	CCV									NA		NA	NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
	CCV						NA			NA		NA	NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
	CCV						NA			NA		NA	NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA
													NA

Analyst: JOHN Date: 5/7/19 QC Reviewer: _____ Date: _____

SGS

Test: **IRON, FERROUS**
Product: **FE2**
Method: **SM18 3500FE B-2011 (aqueous)** Units: mg/l

Analyst: JHW
GNBatch ID: GN95038
GPBatch ID:
Date: 5/7/19

Preparation Batch QC Summary Units =

Method Blank ID: GN95038-MB Date: 5/7/19 Result: <DL DL: 0.2 <DL: 4
Spike Blank ID: -SB Date: Result: 2.935 Spike: 3 %Rec.: 97.8
MS Blank ID: -SB Date: Results: 3.225 Samp. Result: <DL Spike: 3 %Rec.: 107.5
MS Duplicate ID: -DSB Date: Results: 3.162 Samp. Result: <DL Spike: 3 %Rec.: 105.4
Duplicate ID: -DB Date: Dup. Result: <DL Samp. Result: <DL %RPD.: 0
Matrix spike Duplicate Result: Matrix spike Result: %RPD:

Analysis Batch QC Summary Units =

ICV (Ext): 5/7/19 Result: 1.028 TV: 1 %Rec: 102.8
CCV : Result: 1.019 TV: 1 %Rec.: 101.9
CCVA : Result: 6.049 TV: 6 %Rec.: 100.8
CCV : Result: 1.019 TV: 1 %Rec.: 101.9
CCVA : Result: TV: %Rec.:
CCV : Result: TV: %Rec.:
CCVA : Result: TV: %Rec.:

CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:

Reagent Reference Numbers:

Analyst: JHW Date: 5/7/19

Comments:

Form: GN032-01
Rev. Date:9/4/09]

SGS

GN95038

Reagent Information Log
Test Name: FERROUS IRON (FE2)

Reagent	Reagent # or Manufacturer/Lot
PHENANTHROLINE REAGENT	GNE4-57878-FE2 XP:10/29/2019
AMMONIUM ACETATE BUFFER	GNE5-57915-FE2 XP:11/1/2019
FE2 STOCK	GNE5-57945-FE2 XP 7/3/19
ICV	GNE4-57946-FE2 XP 7/3/19

All standards and stocks were made as described in the SOP for this method (circle one): Y or N
If no (N), see attached page for standards prep.

Form: GN087-01
Rev. Date:5/7/2019

SGS

GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: Fe2

GN or GP Number: GN95038

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume or weight used with units	Balance or Autopipet ID (*)	Additional Reagents	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
10.00 mg/l STD	GNE4-57762-FE2	200 mg/L	5.00 mL	A		DI water	100mls	10	05/07/19	JOHN	05/07/19
									05/07/19		
10.00 mg/l ICV	GNE4-57763-FE2	200 mg/L	5	A		DI water	100mls	10	05/07/19	JOHN	05/07/19

Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Balance or Autopipet ID (*)	Additional Reagents	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date		Date
BLANK		0 mg/l	0.00	A	2.00 ml of concentrated HCL and 1.00 ml of hydroxylamine hydrochloride added to each standard.	DI water	100 ml	0.00			
0.10 mg/l	GNE4-57762-FE2	10 mg/l	1.00	A		DI water	100 ml	0.10	05/07/19	JOHN	05/07/19
0.20 mg/l	GNE4-57762-FE2	10 mg/l	2.00	A		DI water	100 ml	0.20	05/07/19	JOHN	05/07/19
0.50 mg/l	GNE4-57762-FE2	10 mg/l	5.00	A		DI water	100 ml	0.50	05/07/19	JOHN	05/07/19
1.00 mg/l	GNE4-57762-FE2	10 mg/l	10.00	A		DI water	100 ml	1.00	05/07/19	JOHN	05/07/19
2.00 mg/l	GNE4-57762-FE2	200 mg/l	1.00	A		DI water	100 ml	2.00	05/07/19	JOHN	05/07/19
4.00 mg/l	GNE4-57762-FE2	200 mg/l	2.00	A		DI water	100 ml	4.00	05/07/19	JOHN	05/07/19
6.00 mg/l	GNE4-57762-FE2	200 mg/l	3.00	A		DI water	100 ml	6.00	05/07/19	JOHN	05/07/19
ICV	GNE4-57946-FE2	10 mg/l	10.00	A		DI water	100 ml	5.00	05/07/19	JOHN	05/07/19
CCV	GNE5-57945-FE2	10 mg/l	10.00	A		DI water	100 ml	5.00	05/07/19	JOHN	05/07/19

Form: GN121-01
Rev. Date: 1/13/09

SGS

Test: Nitrogen, Nitrite
Product: NO2
Method: SM4500NO2 B-11 (Aqueous) ◉ Units: mg/l
SM4500NO2 B-11 M (Solids) ○ mg/kg

Analyst: JOHN
GN Batch ID: GN95104
GP Batch ID:
Date: 5/8/2019
Instrument ID: M

Original Calibration Information Calibration Date: 4/26/2019

	Blank	Std 1	Std 2	Std 3	Std 4	Std 5	Std 6	Std 7
Known:	0.000	0.010	0.025	0.050	0.075	0.100	0.200	
Absorbance:	0.000	0.035	0.087	0.171	0.261	0.347	0.684	
Actual Value:	0.000	0.010	0.025	0.050	0.076	0.101	0.199	

Continuing Calibration Check Standards Data:

	Blank	Std 1	Std 6
Known:	0.000	0.010	0.200
Absorbance:	0.000	0.035	0.708
Recovery:	0.0%	98.1%	103.2%
Actual Value:		0.010	0.206

Correlation Coeff. = 0.99996
Slope = 0.29205
Intercept = -0.00041

Bottle #	Sample ID	Time Analyzed	Initial Wt (g) or Vol (ml)	Final Vol (ml)	Dilution	Sample Abs	Background Abs.	Result From Curve (mg/L)	Final Result	DL	Units	Factor	pH between 5 and 9 (Y or N)
	ICV	20:15	50	50	1	0.335	NA	0.097	0.097	NA	mg/l	NA	
	CCV		50	50	1	0.331	NA	0.096	0.096	NA	mg/l	NA	
	GN95104-MB1		50	50	1	0.000	0.000	0.000	0.000	0.010	mg/l	1	Y
	GN95104-B1		50	50	1	0.133	0.000	0.038	0.038	0.010	mg/l	1	Y
*^4	GN95104-S1		50	50	1	0.159	0.006	0.044	0.044	0.010	mg/l	1	Y
*^4	GN95104-D1		50	50	1	0.015	0.006	0.002	0.002	0.010	mg/l	1	Y
^4	JC87695-1		50	50	1	0.003	0.002	0.000	0.000	0.010	mg/l	1	Y
*4	JC87695-2		50	50	1	0.008	0.008	0.000	0.000	0.010	mg/l	1	Y
4	JC87695-3		50	50	1	0.012	0.009	0.000	0.000	0.010	mg/l	1	Y
^4	JC87695-4		50	50	5	0.005	0.004	0.000	-0.001	0.050	mg/l	1	Y
4	JC87695-5		50	50	1	0.006	0.003	0.000	0.000	0.010	mg/l	1	Y
4	JC87695-6		50	50	1	0.003	0.001	0.000	0.000	0.010	mg/l	1	Y
	CCVA	20:33	50	50	1	0.681	NA	0.198	0.198	NA	mg/l	NA	
4	JC87695-7		50	50	1	0.003	0.000	0.000	0.000	0.010	mg/l	1	Y
4	JC87695-8		50	50	1	0.021	0.002	0.005	0.005	0.010	mg/l	1	Y
^4	JC87695-9		50	50	1	0.015	0.001	0.004	0.004	0.010	mg/l	1	Y
^4	JC87695-10		50	50	1	0.008	0.005	0.000	0.000	0.010	mg/l	1	Y
*^4	JC87695-11		50	50	1	0.007	0.006	0.000	0.000	0.010	mg/l	1	Y
4	JC87695-12		50	50	1	0.003	0.001	0.000	0.000	0.010	mg/l	1	Y
3	JC87689-1		50	50	1	0.144	0.002	0.041	0.041	0.010	mg/l	1	Y
3	JC87689-2		50	50	1	0.012	0.005	0.002	0.002	0.010	mg/l	1	Y
3	JC87689-3		50	50	1	0.013	0.002	0.003	0.003	0.010	mg/l	1	Y
3	JC87689-6		50	50	1	0.005	0.002	0.000	0.000	0.010	mg/l	1	Y
	CCV	20:49	50	50	1	0.351	NA	0.102	0.102	NA	mg/l	NA	
2	JC87667-1		50	50	1	0.005	0.003	0.000	0.000	0.010	mg/l	1	Y
2	JC87667-2		50	50	1	0.009	0.001	0.002	0.002	0.010	mg/l		Y
3	JC87667-3		50	50	1	0.015	0.000	0.004	0.004	0.010	mg/l		Y
3	JC87667-5		50	50	1	0.003	0.001	0.000	0.000	0.010	mg/l		Y
			50	50	1								Y
			50	50	1								Y
			50	50	1								Y
			50	50	1								Y
			50	50	1								Y
			50	50	1								Y
	CCVA	20:57	50	50	1	0.701		0.204	0.204	NA	mg/l	NA	Y

1: Samples not Filtered
QC: JC87695-11
B1/S1: 2ml of 1ppm + 50mL DI sample

Analyst: JOHN Date: 5/9/19 QC Reviewer: [signature] Date: 5/10/19

SGS

Test: **Nitrogen, Nitrite**
Product: **NO2**
Method: **SM18 4500 NO2B (aqueous)**
SM18 4500 NO2B M (solids)

Units: mg/l
mg/kg

Analyst: JHW
GNBatch ID: GN95104
GPBatch ID:
Date: 5/8/19

Preparation Batch QC Summary Units =

Method Blank ID: GN95104-MB1 Date: 5/8/19 Result: <DL DL: 0.01 <DL: Y
Spike Blank ID: -S1 Date: Result: 0.038 Spike: 0.04 %Rec.: 95
Duplicate ID: -D1 Samp. Result: <DL Dup. Result: <DL %RPD: 0
MS ID: -S1 Samp. Result: <DL MS Result: 0.044 Spike: 0.04 %Rec: 110

Method Blank ID: Date: Result: DL: <DL:
Spike Blank ID: Date: Result: Spike: %Rec.:
Duplicate ID: Samp. Result: Dup. Result: %RPD:
MS ID: Samp. Result: MS Result: Spike: %Rec:

Analysis Batch QC Summary Units =

ICV (Ext): 5/8/19 Result: 0.097 TV: 0.1 %Rec: 97

CCV : Result: 0.096 TV: 0.1 %Rec.: 96
CCVA : Result: 0.198 TV: 0.2 %Rec.: 99
CCV : Result: 0.102 TV: 0.1 %Rec.: 102
CCVA : Result: 0.204 TV: 0.2 %Rec.: 102
CCV : Result: TV: %Rec.:
CCVA : Result: TV: %Rec.:

CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:

Reagent Reference Numbers:

Analyst: JHW Date: 5/8/19

Comments:

Form: GN032-01
Rev. Date:9/4/09

SGS

GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: NO2

GN or GP Number: GN95104

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume or weight used with units	Balance or Auto pipet ID (*)	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
NO2 10 mg/L	ERA Lot 190917 Exp: 9/30/2019	1000 mg/L	1.0 ml	A	DI water	100 ml	10 mg/L	5/8/2019	JOHN	5/8/2019
NO2 1 mg/L	NO2 10 mg/L (STD)	100 mg/L	10.0 ml	A	DI water	100 ml	1 mg/L	5/8/2019	JOHN	5/8/2019
NO2 10 mg/L	ERA Lot 020518 Exp: 5/30/2020	1000 mg/L	1.0 ml	A	DI water	100 ml	10 mg/L	5/8/2019	JOHN	5/8/2019
NO2 1 mg/L	NO2 10 mg/L (ICV)	100 mg/L	10.0 ml	A	DI water	100 ml	1 mg/L	5/8/2019	JOHN	5/8/2019

Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Balance or Auto pipet ID (*)	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
0.2 mg/L	1.0 mg/L	1.0 mg/L	20.0 ml	A	DI water	100 ml	3/1/2019	5/8/2019	JOHN	5/8/2019
0.01 mg/L	1.0 mg/L	1.0 mg/L	1.0 ml	A	DI water	100 ml	3/1/2019	5/8/2019	JOHN	5/8/2019
0 mg/L	NA	NA	NA	NA	NA	100 ml	**NA**	5/8/2019	JOHN	5/8/2019
ICV	1.0 mg/L	1.0 mg/L	10.0 ml	A	DI water	100 ml	0.1 mg/L	5/8/2019	JOHN	5/8/2019
CCV	1.0 mg/L	1.0 mg/L	10.0 ml	A	DI water	100 ml	0.1 mg/L	5/8/2019	JOHN	5/8/2019
CCVA	1.0 mg/L	1.0 mg/L	20.0 ml	A	DI water	100 ml	0.2 mg/L	5/8/2019	JOHN	5/8/2019

* If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the appropriate Accutest ID number.

Form: GN121-01
Rev. Date: 1/13/09

SGS

GN95104

Reagent Information Log - Nitrite as Nitrogen

Reagent	Reagent # or Manufacturer/Lot
Calibration Source: 1000 mg/l nitrite stock	ERA LOT#190917 XP:9/30/2019
External Check	ERA LOT #020518 XP: 5/30/2020
Spiking Solution Source (1 PPM)	ERA LOT#190917 XP:9/30/2019
Color Reagent	GNE4-57861-NO2 XP:5/26/2019
NH4OH	FISHER 153331 XP:7/15/21

All standards and stocks were made as described in the SOP for this method (circle one): Y or N
If no (N), see attached page for standards prep.

Form: GN087A-42
Rev. Date:5/8/2019

9.2
9

LABORATORY REVIEW SIGNATURE FORM
(To be stored with the raw data)

File ID: 219051501.TXT
Analyst: NV

Date Analyzed: 05/15/19
Run ID: GN95355

Methods: EPA 300/SW846 9056A

The following analyst(s) have reviewd this run and attest that, to the best of their knowledge, this documentation is complete and correct:

Analyst: NV Date 5/16/19

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

The following supervisor or their designee has reviewed this run and attests that, to the best of their knowledge, this documentation is complete and correct:

Supervisor (or designee): _____ Date _____

LABORATORY REVIEW SIGNATURE FORM
(To be stored with the raw data)

File ID: 219051501.TXT
Analyst: NV

Date Analyzed: 05/15/19
Run ID: GN95355

Methods: EPA 300/SW846 9056A

The following analyst(s) have reviewd this run and attest that, to the best of their knowledge, this documentation is complete and correct:

Analyst: NV Date 5/16/19

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

The following supervisor or their designee has reviewed this run and attests that, to the best of their knowledge, this documentation is complete and correct:

Supervisor (or designee): _____ Date 5/17/19

Sequence: 219051501
Operator: chemistry

Printed: 5/16/2019 11:20:07 AM

Title:
Datasource: NJCHMIC2_local
Location: accutest_perchlorate_system_2\system 2 my sequences\Anions 2019\MAY
Timebase: ACCUTEST_SYS#2
#Samples: 82

GN95355

Created: 5/15/2019 9:16:35 AM by chemistry
Last Update: 5/16/2019 11:12:40 AM by chemistry

No.	Name	Pos.	Comment	Type	Inj. Vol.	Dil. Factor	Status	Inj. Date/Time
1	BLANKCONF	1		Unknown	20.0	1.0000	Finished	5/15/2019 9:16:51 AM
2	STDA	2		Standard	20.0	1.0000	Finished	5/2/2019 10:27:04 AM
3	STDB	3		Standard	20.0	1.0000	Finished	5/2/2019 10:51:00 AM
4	STDC	4		Standard	20.0	1.0000	Finished	5/2/2019 11:14:56 AM
5	STDCD	5		Standard	20.0	1.0000	Finished	5/2/2019 11:38:51 AM
6	STDD	6		Standard	20.0	1.0000	Finished	5/2/2019 12:02:46 PM
7	STDDE	7		Standard	20.0	1.0000	Finished	5/2/2019 12:26:42 PM
8	STDE	8		Standard	20.0	1.0000	Finished	5/2/2019 12:50:39 PM
9	STDF	9		Standard	20.0	1.0000	Finished	5/2/2019 1:14:34 PM
10	STDG	10		Standard	20.0	1.0000	Finished	5/2/2019 1:38:29 PM
11	ICV	2		Unknown	20.0	1.0000	Finished	5/15/2019 9:40:19 AM
12	CCV	3		Unknown	20.0	1.0000	Finished	5/15/2019 10:04:15 AM
13	CCB	4		Unknown	20.0	1.0000	Finished	5/15/2019 10:28:10 AM
14	MB	5		Unknown	20.0	1.0000	Finished	5/15/2019 10:52:06 AM
15	BSP	6		Unknown	20.0	1.0000	Finished	5/15/2019 11:16:02 AM
16	JC87574-1	7		Unknown	20.0	25.0000	Finished	5/15/2019 12:27:57 PM
17	JC87579-1	8		Unknown	20.0	10.0000	Finished	5/15/2019 12:51:23 PM
18	JC87579-2	9		Unknown	20.0	10.0000	Finished	5/15/2019 1:15:18 PM
19	JC87579-4	10		Unknown	20.0	10.0000	Finished	5/15/2019 1:39:13 PM
20	JC87579-5	11		Unknown	20.0	10.0000	Finished	5/15/2019 2:03:08 PM
21	JC87579-6	12		Unknown	20.0	10.0000	Finished	5/15/2019 2:27:03 PM
22	JC87579-7	13		Unknown	20.0	10.0000	Finished	5/15/2019 2:50:58 PM
23	JC87579-8	14		Unknown	20.0	10.0000	Finished	5/15/2019 3:14:54 PM
24	CCV	15		Unknown	20.0	1.0000	Finished	5/15/2019 3:41:45 PM
25	CCB	16		Unknown	20.0	1.0000	Finished	5/15/2019 4:05:09 PM
26	JC87579-9	17		Unknown	20.0	10.0000	Finished	5/15/2019 4:29:04 PM
27	JC87579-10	18		Unknown	20.0	10.0000	Finished	5/15/2019 4:53:00 PM
28	JC87579-11	19		Unknown	20.0	10.0000	Finished	5/15/2019 5:16:56 PM
29	GP21255-S1	20	JC87644-1	Unknown	20.0	10.0000	Finished	5/15/2019 5:40:51 PM
30	GP21255-D1	21	JC87644-1	Unknown	20.0	10.0000	Finished	5/15/2019 6:04:46 PM
31	JC87644-1	22		Unknown	20.0	10.0000	Finished	5/15/2019 6:28:41 PM
32	GP21255-S2	23	JC87644-2	Unknown	20.0	10.0000	Finished	5/15/2019 6:52:36 PM
33	JC87644-2	24		Unknown	20.0	10.0000	Finished	5/15/2019 7:16:31 PM
34	JC87644-3	25		Unknown	20.0	10.0000	Finished	5/15/2019 7:40:28 PM
35	JC87644-4	26		Unknown	20.0	10.0000	Finished	5/15/2019 8:04:23 PM
36	CCV	27		Unknown	20.0	1.0000	Finished	5/15/2019 8:28:19 PM
37	CCB	28		Unknown	20.0	1.0000	Finished	5/15/2019 8:52:14 PM
38	JC87644-6	29		Unknown	20.0	10.0000	Finished	5/15/2019 9:16:10 PM
39	JC87644-7	30		Unknown	20.0	10.0000	Finished	5/15/2019 9:40:05 PM
40	JC87644-8	31		Unknown	20.0	10.0000	Finished	5/15/2019 10:04:01 PM
41	JC87644-9	32		Unknown	20.0	10.0000	Finished	5/15/2019 10:27:57 PM
42	MB	33		Unknown	20.0	1.0000	Finished	5/15/2019 10:51:52 PM

Sequence: 219051501
Operator: chemistry

Title:
Datasource: NJCHMIC2_local
Location: accutest_perchlorate_system_2\system 2 my sequences\Anions 2019\MAY
Timebase: ACCUTEST_SYS#2
#Samples: 81

Created: 5/15/2019 9:16:35 AM by chemistry
Last Update: 5/16/2019 2:44:12 PM by chemistry

No.	Name	Pos.	Comment	Type	Inj. Vol.	Dil. Factor	Status	Inj. Date/Time
43	BSP	34		Unknown	20.0	1.0000	Finished	5/15/2019 11:15:47 PM
44	JC87656-2	35		Unknown	20.0	1.0000	Finished	5/15/2019 11:39:43 PM
45	JC87656-3	36		Unknown	20.0	1.0000	Finished	5/16/2019 12:03:39 AM
46	JC87656-4	37		Unknown	20.0	1.0000	Finished	5/16/2019 12:27:35 AM
47	JC87656-6	38		Unknown	20.0	1.0000	Finished	5/16/2019 12:51:30 AM
48	CCV	39		Unknown	20.0	1.0000	Finished	5/16/2019 1:15:26 AM
49	CCB	40		Unknown	20.0	1.0000	Finished	5/16/2019 1:39:21 AM
50	JC87656-7	41		Unknown	20.0	1.0000	Finished	5/16/2019 2:03:17 AM
51	GP21267-S1	42	JC87662-1	Unknown	20.0	1.0000	Finished	5/16/2019 2:27:13 AM
52	GP21267-D1	43	JC87662-1	Unknown	20.0	1.0000	Finished	5/16/2019 2:51:09 AM
53	JC87662-1	44		Unknown	20.0	1.0000	Finished	5/16/2019 3:15:05 AM
54	GP21267-S2	45	JC87662-2	Unknown	20.0	1.0000	Finished	5/16/2019 3:39:01 AM
55	JC87662-2	46		Unknown	20.0	1.0000	Finished	5/16/2019 4:02:56 AM
56	JC87662-3	47		Unknown	20.0	1.0000	Finished	5/16/2019 4:26:51 AM
57	JC87662-4	48		Unknown	20.0	1.0000	Finished	5/16/2019 4:50:47 AM
58	JC87662-5	49		Unknown	20.0	1.0000	Finished	5/16/2019 5:14:42 AM
59	JC87662-6	50		Unknown	20.0	1.0000	Finished	5/16/2019 5:38:37 AM
60	CCV	1		Unknown	20.0	1.0000	Finished	5/16/2019 6:02:33 AM
61	CCB	2		Unknown	20.0	1.0000	Finished	5/16/2019 6:26:29 AM
62	JC87662-7	3		Unknown	20.0	1.0000	Finished	5/16/2019 6:50:25 AM
63	JC87662-8	4		Unknown	20.0	1.0000	Finished	5/16/2019 7:14:21 AM
64	JC87662-9	5		Unknown	20.0	1.0000	Finished	5/16/2019 7:38:17 AM
65	JC87662-10	6		Unknown	20.0	1.0000	Finished	5/16/2019 8:02:12 AM
66	JC87662-11	7		Unknown	20.0	1.0000	Finished	5/16/2019 8:26:08 AM
67	JC87667-1	8		Unknown	20.0	1.0000	Finished	5/16/2019 8:50:04 AM
68	JC87667-2	9		Unknown	20.0	1.0000	Finished	5/16/2019 9:13:59 AM
69	JC87667-3	10		Unknown	20.0	1.0000	Finished	5/16/2019 9:37:54 AM
70	JC87667-5	11		Unknown	20.0	1.0000	Finished	5/16/2019 10:01:50 AM
71	CCV	12		Unknown	20.0	1.0000	Finished	5/16/2019 10:25:45 AM
72	CCB	13		Unknown	20.0	1.0000	Finished	5/16/2019 10:49:42 AM
73	JC87579-1	14		Unknown	20.0	25.0000	Finished	5/16/2019 11:43:25 AM
74	JC87579-2	15		Unknown	20.0	25.0000	Finished	5/16/2019 12:41:08 PM
75	JC87579-4	16		Unknown	20.0	25.0000	Finished	5/16/2019 1:04:47 PM
76	GP21255-D1	17	JC87644-1	Unknown	20.0	10.0000	Finished	5/16/2019 2:17:45 PM
77	JC87644-1	18		Unknown	20.0	10.0000	Finished	5/16/2019 2:41:30 PM
78	GP21255-S2	19		Unknown	20.0	20.0000	Finished	5/16/2019 3:05:25 PM
79	JC87644-9	20		Unknown	20.0	1.0000	Finished	5/16/2019 3:29:20 PM
80	CCV	21		Unknown	20.0	1.0000	Finished	5/16/2019 3:53:16 PM
81	CCB	22		Unknown	20.0	1.0000	Finished	5/16/2019 4:17:11 PM

Sequence: 219051501
Operator: chemistry

Title:
Datasource: NJCHMIC2_local
Location: accutest_perchlorate_system_2\system 2 my sequences\Anions 2019\MAY
Timebase: ACCUTEST_SYS#2
#Samples: 73

GN95355

Created: 5/15/2019 9:16:35 AM by chemistry (Modified, not saved)

No.	Name	Pos.	Comment	Type	Inj. Vol.	Dil. Factor	Status	Inj. Date/Time
1	BLANKCONF	1		Unknown	20.0	1.0000	Finished	5/15/2019 9:16:51 AM
2	STDA	2		Standard	20.0	1.0000	Finished	5/2/2019 10:27:04 AM
3	STDB	3		Standard	20.0	1.0000	Finished	5/2/2019 10:51:00 AM
4	STDC	4		Standard	20.0	1.0000	Finished	5/2/2019 11:14:56 AM
5	STDCD	5		Standard	20.0	1.0000	Finished	5/2/2019 11:38:51 AM
6	STDD	6		Standard	20.0	1.0000	Finished	5/2/2019 12:02:46 PM
7	STDDE	7		Standard	20.0	1.0000	Finished	5/2/2019 12:26:42 PM
8	STDE	8		Standard	20.0	1.0000	Finished	5/2/2019 12:50:39 PM
9	STDF	9		Standard	20.0	1.0000	Finished	5/2/2019 1:14:34 PM
10	STDG	10		Standard	20.0	1.0000	Finished	5/2/2019 1:38:29 PM
11	ICV	2		Unknown	20.0	1.0000	Finished	5/15/2019 9:40:19 AM
12	CCV	3		Unknown	20.0	1.0000	Finished	5/15/2019 10:04:15 AM
13	CCB	4		Unknown	20.0	1.0000	Finished	5/15/2019 10:28:10 AM
14	MB	5		Unknown	20.0	1.0000	Finished	5/15/2019 10:52:06 AM
15	BSP	6		Unknown	20.0	1.0000	Finished	5/15/2019 11:16:02 AM
--16	JC87574-1 5	7		Unknown	20.0	25.0000	Finished	5/15/2019 12:27:57 PM
17	JC87579-1 8	8		Unknown	20.0	10.0000	Finished	5/15/2019 12:51:23 PM
18	JC87579-2 9	9		Unknown	20.0	10.0000	Finished	5/15/2019 1:15:18 PM
19	JC87579-4 8	10		Unknown	20.0	10.0000	Finished	5/15/2019 1:39:13 PM
20	JC87579-5 8	11		Unknown	20.0	10.0000	Finished	5/15/2019 2:03:08 PM
21	JC87579-6 8	12		Unknown	20.0	10.0000	Finished	5/15/2019 2:27:03 PM
22	JC87579-7 8	13		Unknown	20.0	10.0000	Finished	5/15/2019 2:50:58 PM
▶	JC87579-8 8	14		Unknown	20.0	10.0000	Running	5/15/2019 3:14:54 PM
24	CCV	15		Unknown	20.0	1.0000	Single	
25	CCB	16		Unknown	20.0	1.0000	Single	
26	JC87579-9 8	17		Unknown	20.0	10.0000	Single	
27	JC87579-10 8	18		Unknown	20.0	10.0000	Single	
28	JC87579-11 8	19		Unknown	20.0	10.0000	Single	
29	GP21255-S1	20	JC87644-1	Unknown	20.0	10.0000	Single	
30	GP21255-D1	21	JC87644-1	Unknown	20.0	10.0000	Single	
31	JC87644-1	22		Unknown	20.0	10.0000	Single	
32	GP21255-S2	23	JC87644-2	Unknown	20.0	10.0000	Single	
33	JC87644-2	24		Unknown	20.0	10.0000	Single	
34	JC87644-3	25		Unknown	20.0	10.0000	Single	
35	JC87644-4	26		Unknown	20.0	10.0000	Single	
36	CCV	27		Unknown	20.0	1.0000	Single	
37	CCB	28		Unknown	20.0	1.0000	Single	
38	JC87644-6	29		Unknown	20.0	10.0000	Single	
39	JC87644-7	30		Unknown	20.0	10.0000	Single	
40	JC87644-8	31		Unknown	20.0	10.0000	Single	
41	JC87644-9	32		Unknown	20.0	10.0000	Single	
42	MB	33		Unknown	20.0	1.0000	Single	

GP21231 (2)

GP21255 (1)

Sequence: 219051501
Operator: chemistry

Title:
Datasource: NJCHMIC2_local
Location: accutest_perchlorate_system_2\system 2 my sequences\Anions 2019\MAY
Timebase: ACCUTEST_SYS#2
#Samples: 73

Created: 5/15/2019 9:16:35 AM by chemistry
Last Update: 5/15/2019 4:55:30 PM by chemistry

GP21267 (1)

No.	Name	Pos.	Comment	Type	Inj. Vol.	Dil. Factor	Status	Inj. Date/Time
43	BSP	34		Unknown	20.0	1.0000	Single	
44	JC87656-2 2	35		Unknown	20.0	1.0000	Single	
45	JC87656-3 2	36		Unknown	20.0	1.0000	Single	
46	JC87656-4 2	37		Unknown	20.0	1.0000	Single	
47	JC87656-6 2	38		Unknown	20.0	1.0000	Single	
48	CCV	39		Unknown	20.0	1.0000	Single	
49	CCB	40		Unknown	20.0	1.0000	Single	
50	JC87656-7 2	41		Unknown	20.0	1.0000	Single	
51	GP21267-S1 3	42	JC87662-1	Unknown	20.0	1.0000	Single	
52	GP21267-D1 3	43	JC87662-1	Unknown	20.0	1.0000	Single	
53	JC87662-1 3	44		Unknown	20.0	1.0000	Single	
54	GP21267-S2 4	45	JC87662-2	Unknown	20.0	1.0000	Single	
55	JC87662-2 4	46		Unknown	20.0	1.0000	Single	
56	JC87662-3 4	47		Unknown	20.0	1.0000	Single	
57	JC87662-4 3	48		Unknown	20.0	1.0000	Single	
58	JC87662-5 4	49		Unknown	20.0	1.0000	Single	
59	JC87662-6 3	50		Unknown	20.0	1.0000	Single	
60	CCV	1		Unknown	20.0	1.0000	Single	
61	CCB	2		Unknown	20.0	1.0000	Single	
62	JC87662-7 3	3		Unknown	20.0	1.0000	Single	
63	JC87662-8 4	4		Unknown	20.0	1.0000	Single	
64	JC87662-9 3	5		Unknown	20.0	1.0000	Single	
65	JC87662-10 3	6		Unknown	20.0	1.0000	Single	
66	JC87662-11 4	7		Unknown	20.0	1.0000	Single	
67	JC87667-1 3	8		Unknown	20.0	1.0000	Single	
68	JC87667-2 3	9		Unknown	20.0	1.0000	Single	
69	JC87667-3 2	10		Unknown	20.0	1.0000	Single	
70	JC87667-5 2	11		Unknown	20.0	1.0000	Single	
71	CCV	12		Unknown	20.0	1.0000	Single	
72	CCB	13		Unknown	20.0	1.0000	Single	
73	STANDBY	14		Unknown	20.0	1.0000	Single	

SGS

Analyst NV

Product Cn1, So4, Bro

Pipette ID 42

Prep Date 5/15/19

Balance ID NA

Batch ID GN95355

Sample Prep Log

Sample ID	Initial Sample Amount	Final Volume
BSP	0.5mL spiking solution	50 mL
GP21267-S1	0.5mL spiking solution	50 mL JC87662-1
GP21267-S2	0.5mL spiking solution	50 mL JC87662-2

Form: GN166-02
Rev. Date: 8/5/05

QC Review

Analyst NV Product Cn1, So4, Bro Autopipette # 42

Date 5/15/19 Batch ID GN95355 Class A Vol. Flask

Sample Dilution Prep Log

Sample ID	Dilution	Initial Volume	Final Volume	Comments
JC87579-1	1:10	5	50	difficult matrix
JC87579-2	1:10	5	50	difficult matrix
JC87579-4	1:10	5	50	difficult matrix
JC87579-5	1:10	5	50	difficult matrix
JC87579-6	1:10	5	50	difficult matrix
JC87579-7	1:10	5	50	difficult matrix
JC87579-8	1:10	5	50	difficult matrix
JC87579-9	1:10	5	50	difficult matrix
JC87579-10	1:10	5	50	difficult matrix
JC87579-11	1:10	5	50	difficult matrix
GP21255-S1	1:10	5	50	difficult matrix JC87644-1+0.5 mL spike
GP21255-D1	1:10	5	50	difficult matrix JC87644-1
JC87644-1	1:10	5	50	difficult matrix
GP21255-S2	1:10	5	50	difficult matrix JC87644-2 +0.5 mL spike
JC87644-2	1:10	5	50	difficult matrix
JC87644-3	1:10	5	50	difficult matrix
JC87644-4	1:10	5	50	difficult matrix
JC87644-6	1:10	5	50	difficult matrix
JC87644-7	1:10	5	50	difficult matrix
JC87644-8	1:10	5	50	difficult matrix
JC87644-9	1:10	5	50	difficult matrix

Form: GN165-01
Rev. Date: 2/25/03

Analyst NV Product SO4 Autopipette # 42

Date 5/15/19 Batch ID GN95355 Class A Vol. Flask

Sample Dilution Prep Log

Sample ID	Dilution	Initial Volume	Final Volume	Comments
JC87574-1	1:25	1	25	SO4
JC87579-1	1:25	1	25	Cl
JC87579-2	1:25	1	25	Cl
JC87579-4	1:25	1	25	Cl
GP21255-S2	1:20	5	100	Cl JC87644-2 1ml spike
~~JC87644-4~~	~~1:200~~	~~0.5~~	~~100~~	~~Cl~~ NV 5/16/19
~~JC87644-7~~	~~1:200~~	~~0.5~~	~~100~~	~~Cl~~ NV 5/16/19
~~JC87644-8~~	~~1:500~~	~~0.2~~	~~100~~	~~Cl~~ NV 5/16/19
JC87644-9				rerun straight

QC Reviewer:_____ Date:_____

Form: GN165-01
Rev. Date: 2/25/03

SGS

Reagent Information Log - IONC IC2 - Water /Soil

GN Batch ID#: GN95355

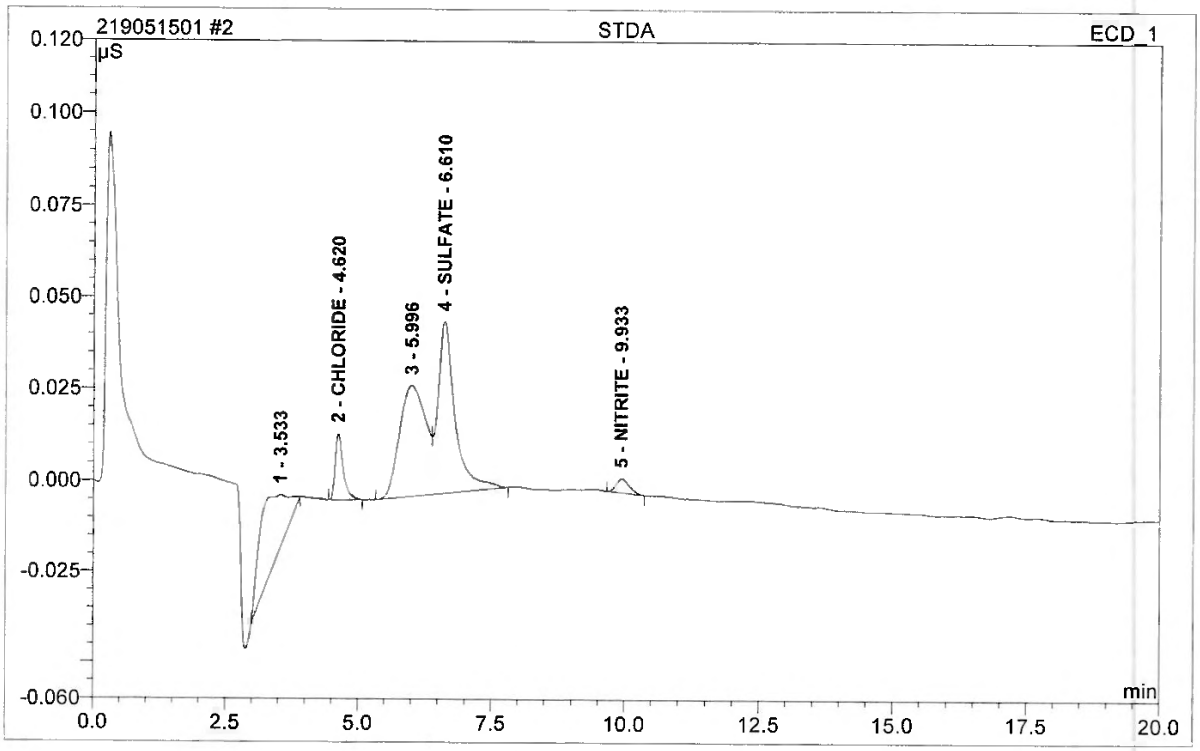
Reagent	Reagent # or Manufacturer/Lot	Exp. Date
Standard Intermediate (for Calibration Curve)	GN18-476-142	5/21/2019
Standard Intermediate (for Calibration Curve)	GN18-476-144	5/21/2019
ICV	GN18-479-43	5/21/2019
Eluent	1804742445014	7/24/2020
Standard Intermediate (for Working std/Spikes)	GN18-476-142	5/21/2019
Standard Intermediate (for Working std/Spikes)	GN18-476-144	5/21/2019
CCV	GN19-493-19	5/21/2019
Spiking Solution Intermediate (CHL/SO4)	GN18-478-41	5/29/2019
Spiking Solution Intermediate (F/BRO)	GN18-478-42	5/29/2019
Spiking Solution (SOUP)	GN18-478-45	5/21/2019
Filter lot numbers	GREENWOOD #180111044	NA

Reason codes for data corrections: 1-reviewer error correction: 2-transcription error; 3-computer error; 4-analyst error

Form : GN087A-76
Rev. Date: 4/7/09

2 STDA

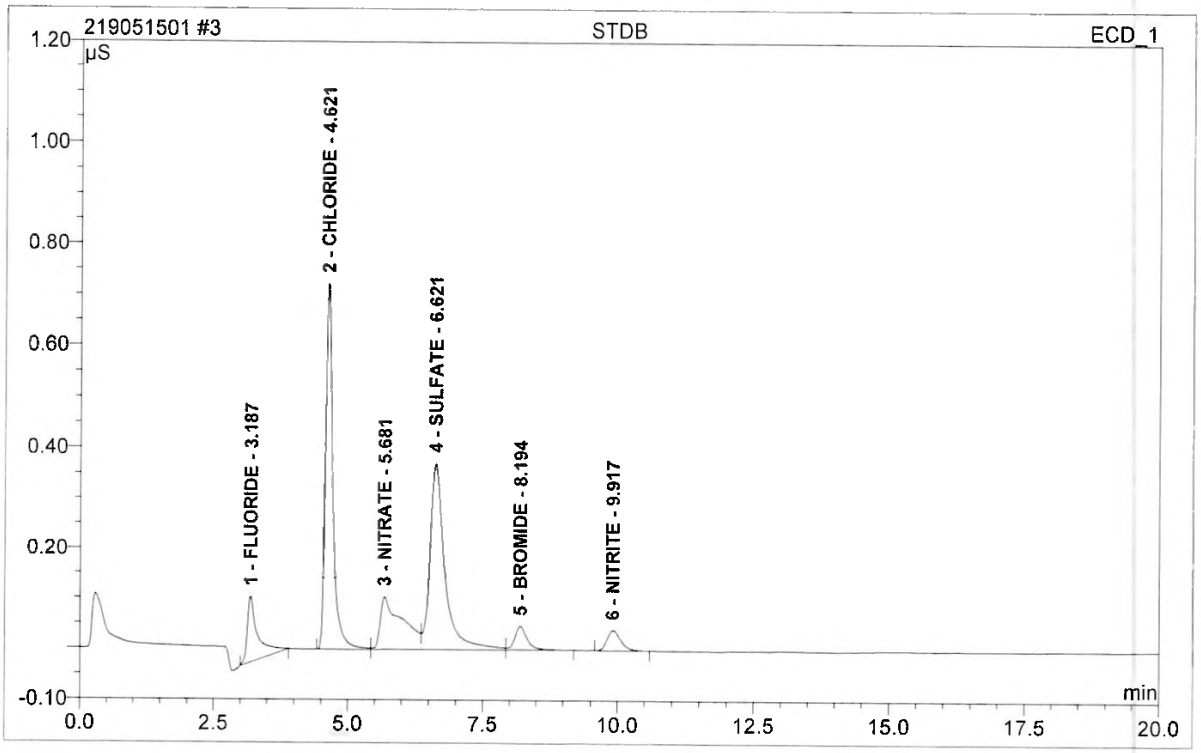
Sample Name:	**STDA**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 10:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.53	n.a.	0.015	0.012	23.07	n.a.	BMB
2	4.62	CHLORIDE	0.018	0.003	6.13	0.010	BMB
3	6.00	n.a.	0.030	0.017	33.65	n.a.	BM
4	6.61	SULFATE	0.047	0.018	34.97	0.079	MB
5	9.93	NITRITE	0.004	0.001	2.19	0.002	BMB
Total:			0.113	0.050	100.00	0.091	

3 STDB

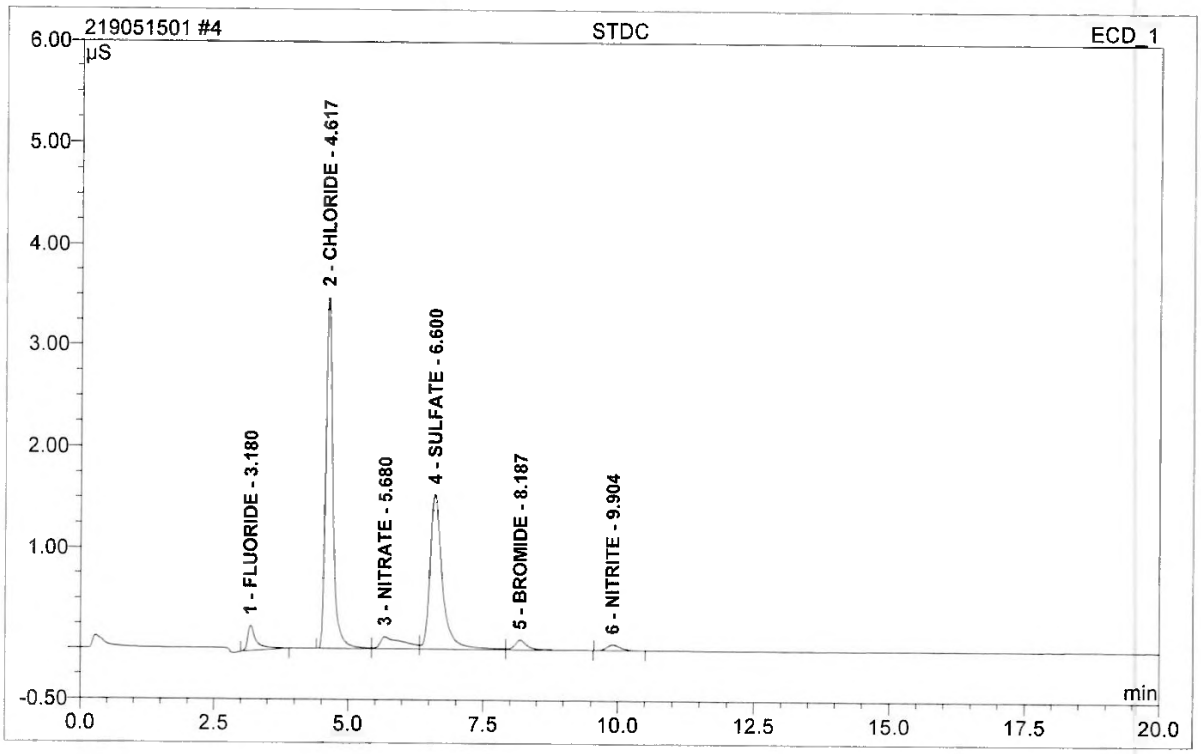
Sample Name:	**STDB**	*Injection Volume:*	**20.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 10:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.130	0.029	8.64	0.062	BMB
2	4.62	CHLORIDE	0.722	0.117	34.58	0.392	BM
3	5.68	NITRATE	0.104	0.049	14.55	0.078	M
4	6.62	SULFATE	0.372	0.119	35.00	0.532	M
5	8.19	BROMIDE	0.047	0.013	3.78	0.086	MB
6	9.92	NITRITE	0.040	0.012	3.45	0.017	BMB
Total:			1.415	0.339	100.00	1.168	

4 STDC

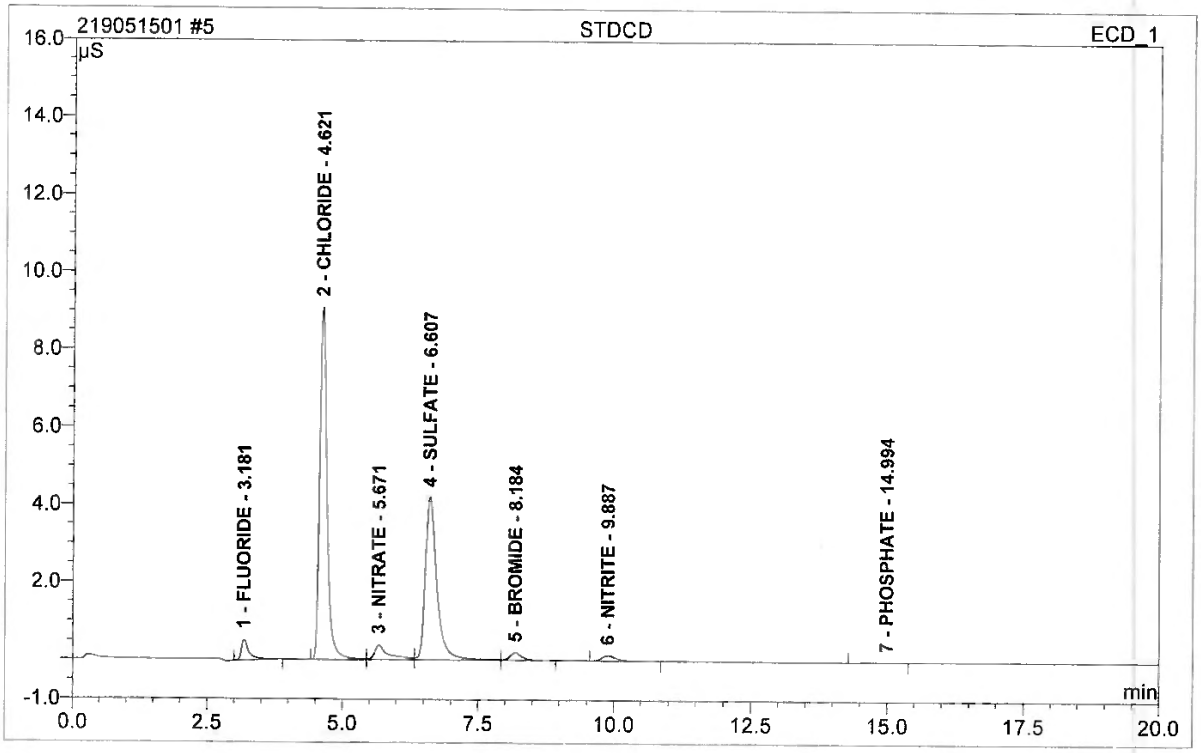
Sample Name:	**STDC**	*Injection Volume:*	**20.0**
Vial Number:	**4**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 11:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.18	FLUORIDE	0.251	0.048	4.37	0.102	BMB
2	4.62	CHLORIDE	3.473	0.540	49.03	1.805	BM
3	5.68	NITRATE	0.120	0.059	5.40	0.094	M
4	6.60	SULFATE	1.537	0.410	37.24	1.840	M
5	8.19	BROMIDE	0.097	0.027	2.48	0.183	MB
6	9.90	NITRITE	0.057	0.016	1.49	0.023	BMB
Total:			5.534	1.101	100.00	4.048	

5 STDCD

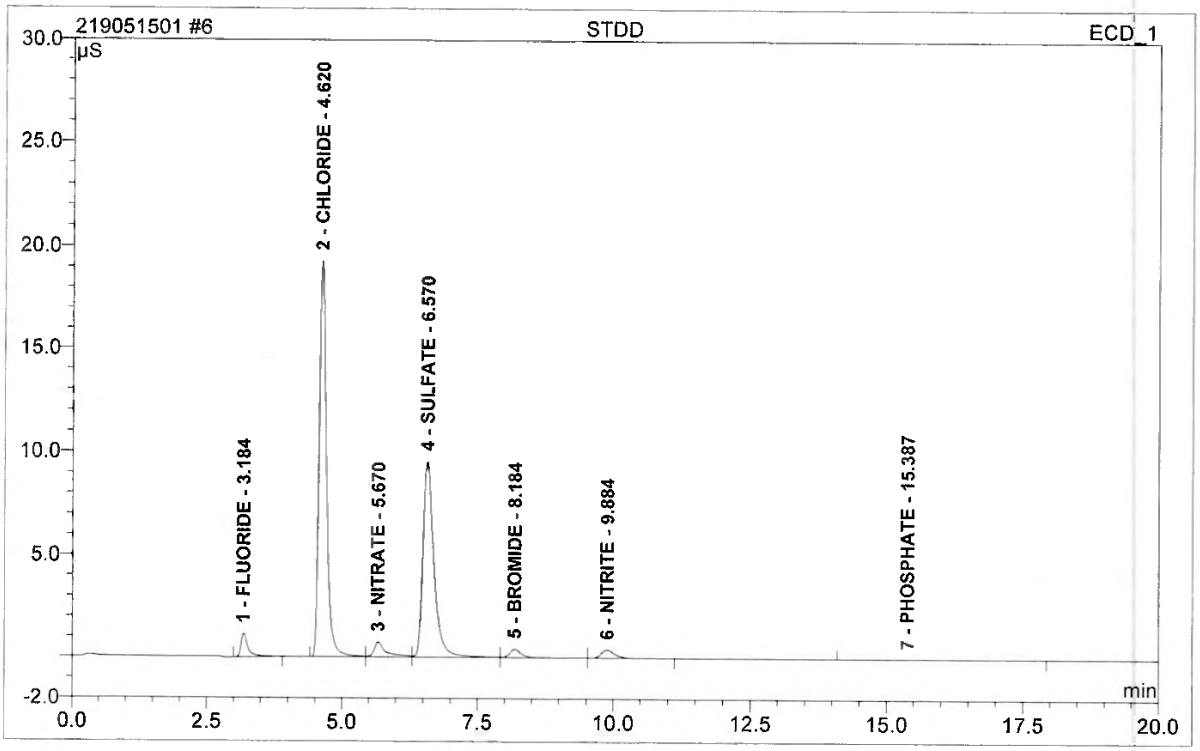
Sample Name:	**STDCD**	*Injection Volume:*	**20.0**
Vial Number:	**5**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 11:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.18	FLUORIDE	0.525	0.087	3.18	0.186	BMB
2	4.62	CHLORIDE	9.088	1.422	51.75	4.756	BM
3	5.67	NITRATE	0.383	0.113	4.12	0.179	M
4	6.61	SULFATE	4.200	1.033	37.57	4.632	M
5	8.18	BROMIDE	0.198	0.050	1.81	0.335	MB
6	9.89	NITRITE	0.141	0.041	1.50	0.059	BMB
7	14.99	PHOSPHATE	0.003	0.002	0.07	0.082	BMB
Total:			14.539	2.749	100.00	10.226	

6 STDD

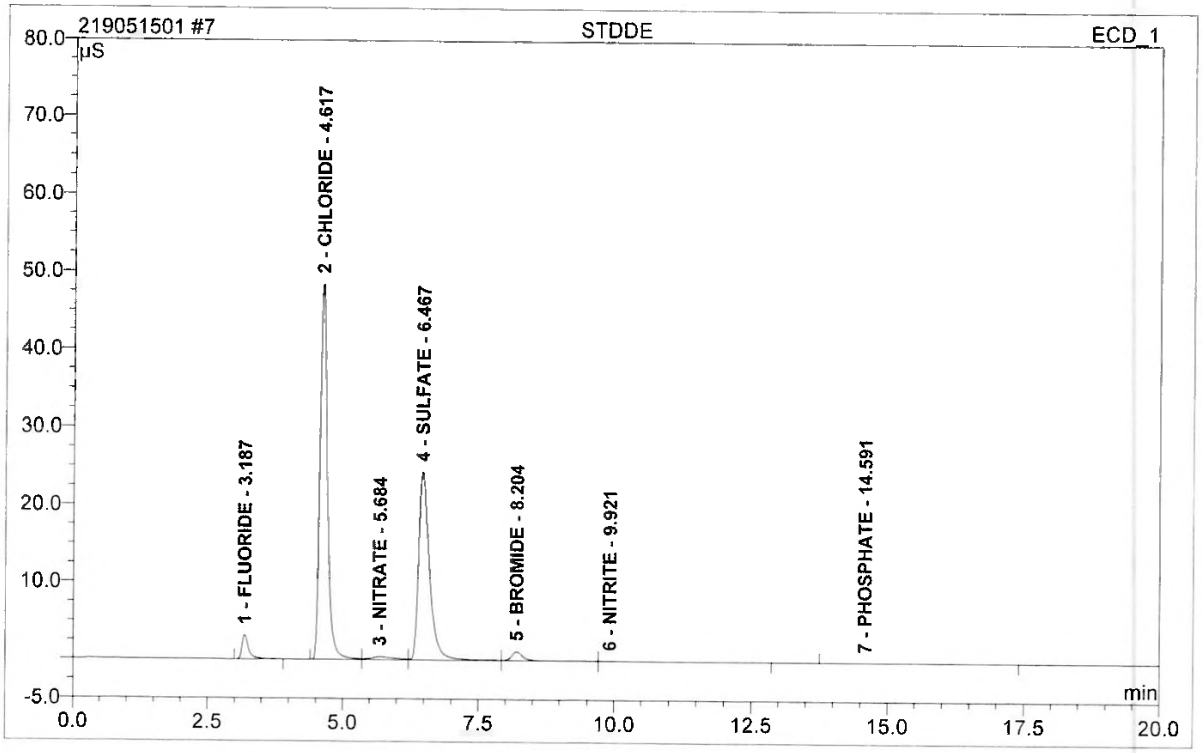
Sample Name:	**STDD**	*Injection Volume:*	**20.0**
Vial Number:	**6**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 12:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.18	FLUORIDE	1.152	0.175	2.94	0.371	BMB
2	4.62	CHLORIDE	19.252	3.045	51.31	10.182	BM
3	5.67	NITRATE	0.736	0.193	3.26	0.305	M
4	6.57	SULFATE	9.549	2.266	38.18	10.166	M
5	8.18	BROMIDE	0.428	0.114	1.92	0.768	M
6	9.88	NITRITE	0.419	0.122	2.06	0.174	MB
7	15.39	PHOSPHATE	0.009	0.019	0.33	0.794	BMB
Total:			31.544	5.936	100.00	22.760	

7 STDDE

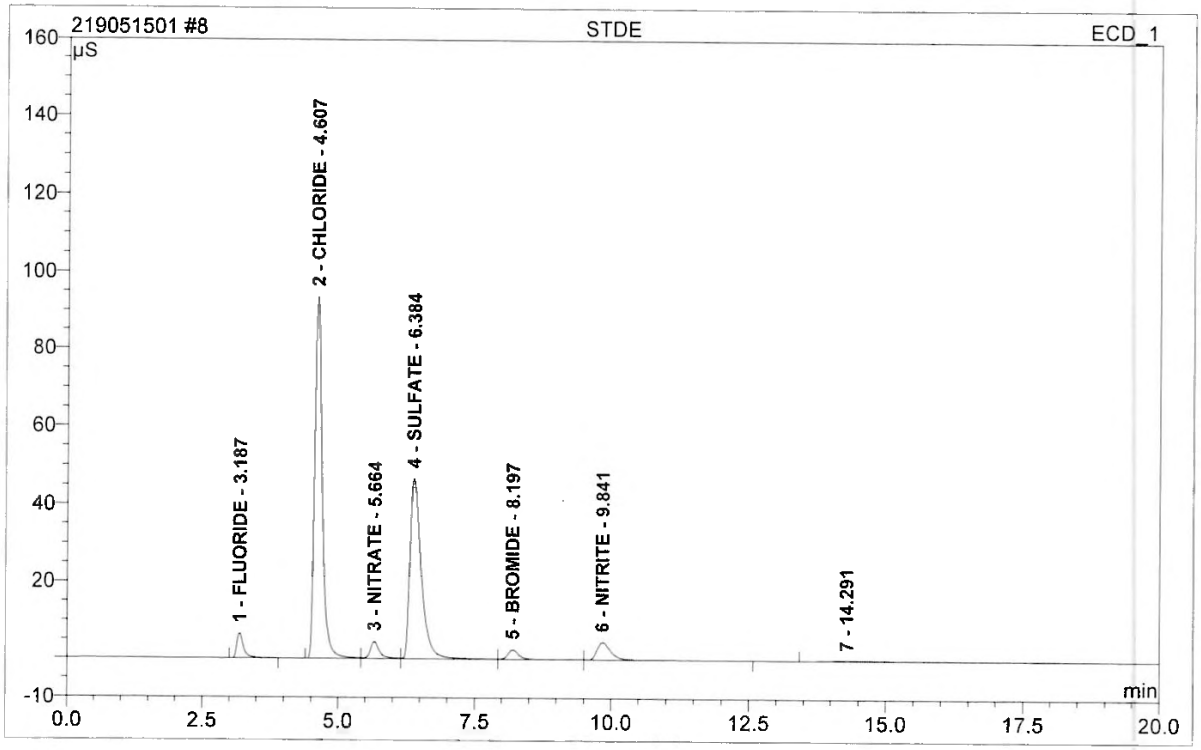
Sample Name:	**STDDE**	*Injection Volume:*	**20.0**
Vial Number:	**7**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 12:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	3.121	0.448	3.10	0.951	BMB
2	4.62	CHLORIDE	48.392	7.740	53.68	25.880	BM
3	5.68	NITRATE	0.409	0.196	1.36	0.309	M
4	6.47	SULFATE	24.350	5.691	39.47	25.529	M
5	8.20	BROMIDE	1.175	0.302	2.09	2.029	M
6	9.92	NITRITE	0.015	0.021	0.15	0.030	MB
7	14.59	PHOSPHATE	0.012	0.021	0.15	0.866	BMB
Total:			77.473	14.420	100.00	55.593	

8 STDE

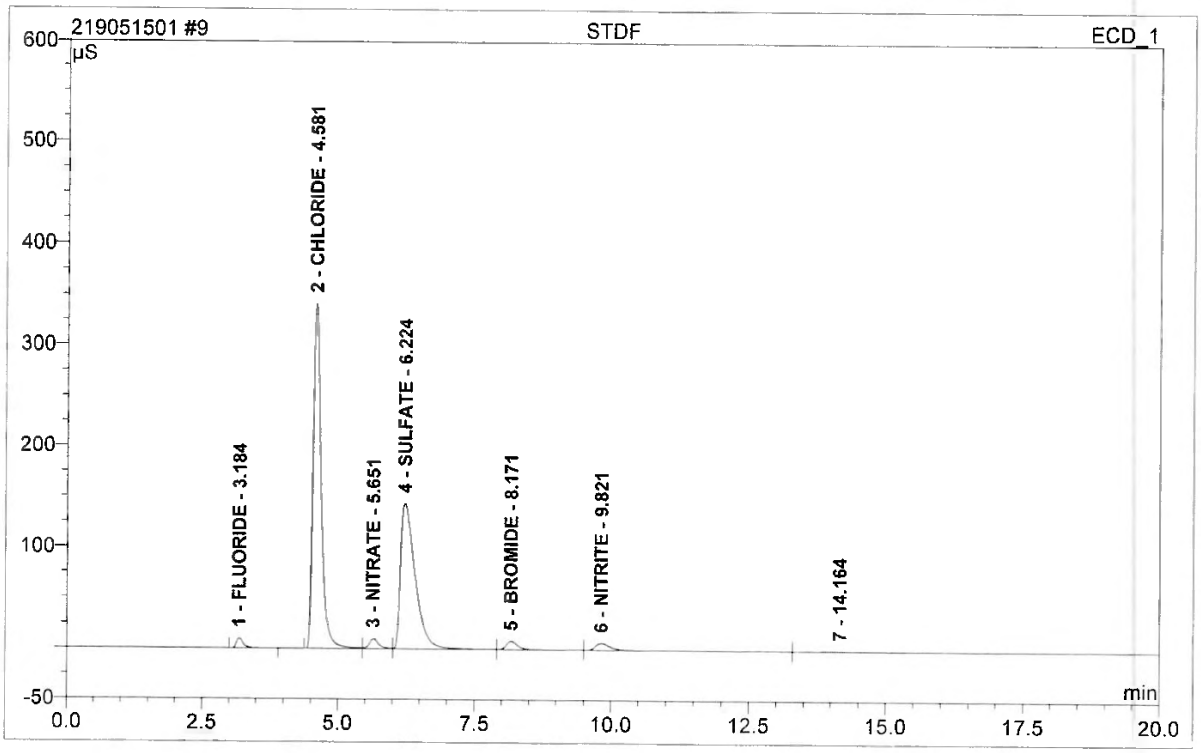
Sample Name:	**STDE**	*Injection Volume:*	**20.0**
Vial Number:	**8**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 12:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	6.521	0.943	3.07	2.003	BMB
2	4.61	CHLORIDE	93.498	15.247	49.60	50.977	BM
3	5.66	NITRATE	4.489	0.899	2.92	1.418	M
4	6.38	SULFATE	46.788	11.316	36.81	50.758	M
5	8.20	BROMIDE	2.544	0.622	2.03	4.184	M
6	9.84	NITRITE	4.622	1.398	4.55	1.994	MB
7	14.29	n.a.	0.109	0.314	1.02	n.a.	BMB
Total:			158.570	30.739	100.00	111.333	

9 STDF

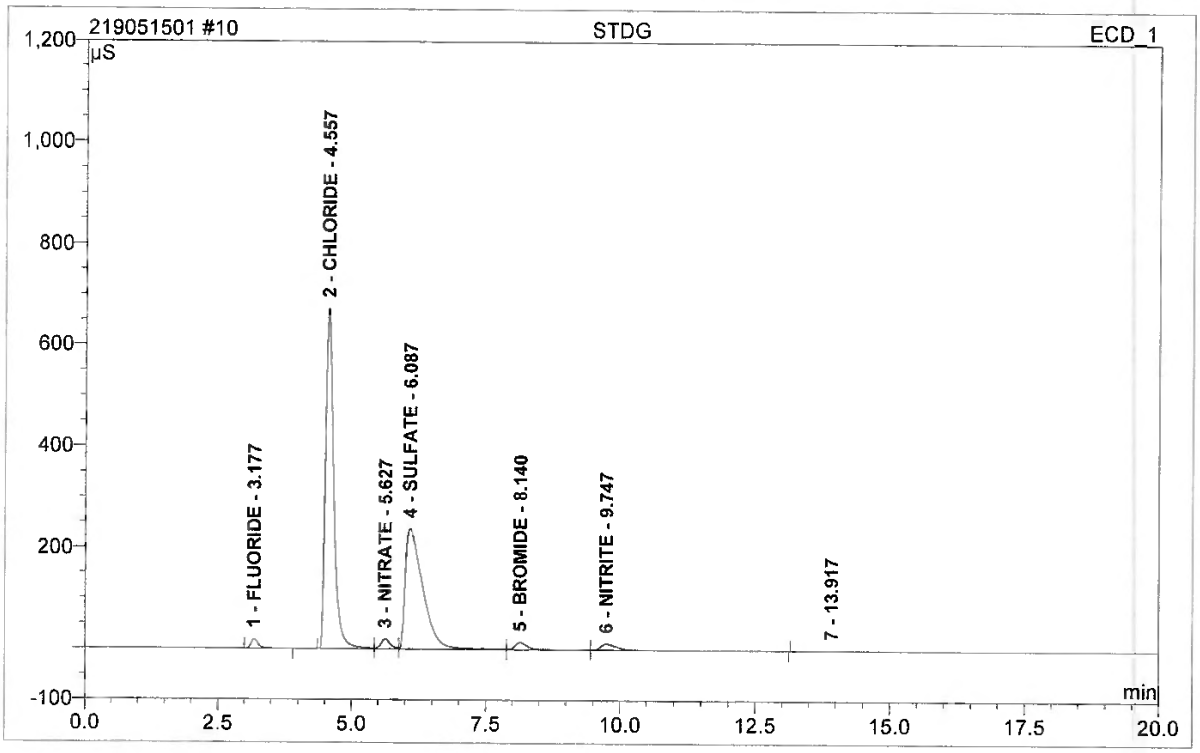
Sample Name:	**STDF**	*Injection Volume:*	**20.0**
Vial Number:	**9**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 13:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



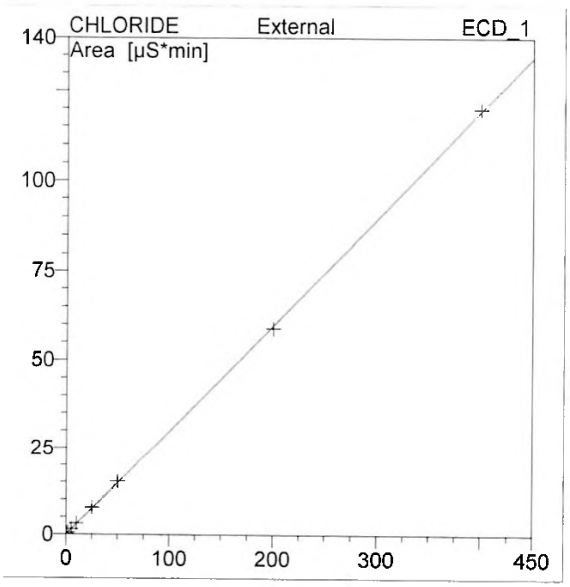
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.18	FLUORIDE	9.549	1.419	1.27	3.013	BMB
2	4.58	CHLORIDE	340.979	58.973	52.83	197.174	BM
3	5.65	NITRATE	9.712	1.975	1.77	3.115	M
4	6.22	SULFATE	143.379	44.275	39.66	198.601	M
5	8.17	BROMIDE	8.098	2.115	1.89	14.221	M
6	9.82	NITRITE	6.777	2.275	2.04	3.245	M
7	14.16	n.a.	0.243	0.599	0.54	n.a.	MB
Total:			518.736	111.632	100.00	419.368	

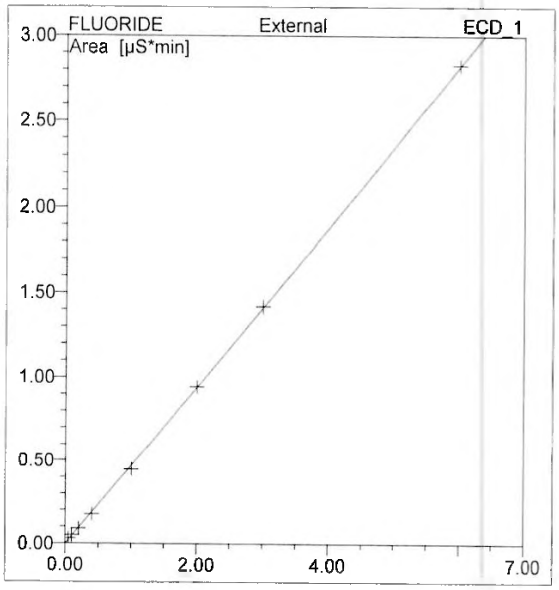
10 STDG

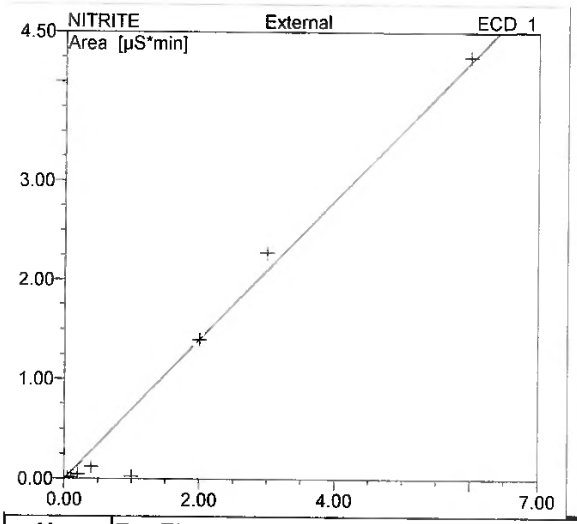
Sample Name:	**STDG**	*Injection Volume:*	**20.0**
Vial Number:	**10**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/2/2019 13:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

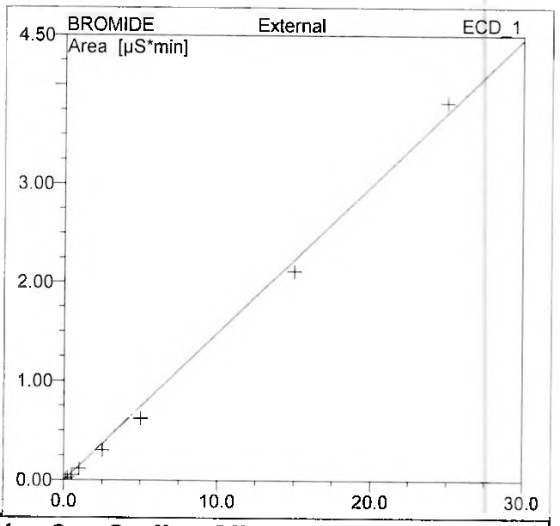


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.18	FLUORIDE	18.182	2.827	1.25	6.003	BMB
2	4.56	CHLORIDE	672.422	120.007	53.26	401.236	BM
3	5.63	NITRATE	19.246	3.969	1.76	6.259	M
4	6.09	SULFATE	238.574	89.302	39.63	400.573	M
5	8.14	BROMIDE	13.909	3.822	1.70	25.691	M
6	9.75	NITRITE	12.019	4.250	1.89	6.062	MB
7	13.92	n.a.	0.723	1.150	0.51	n.a.	BMB
Total:			975.075	225.326	100.00	845.824	

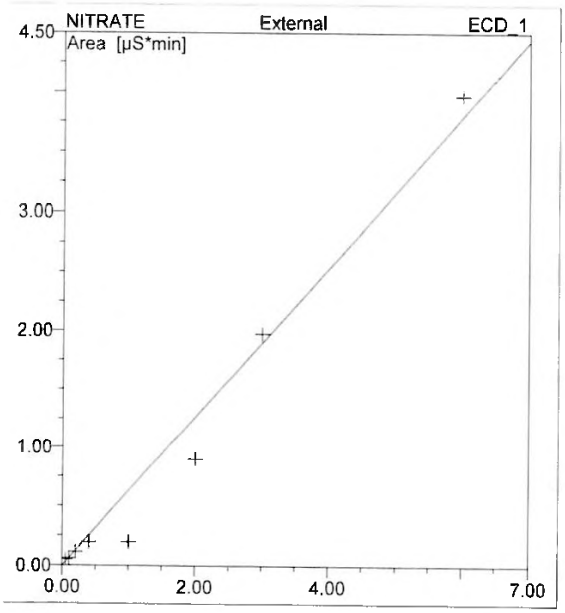


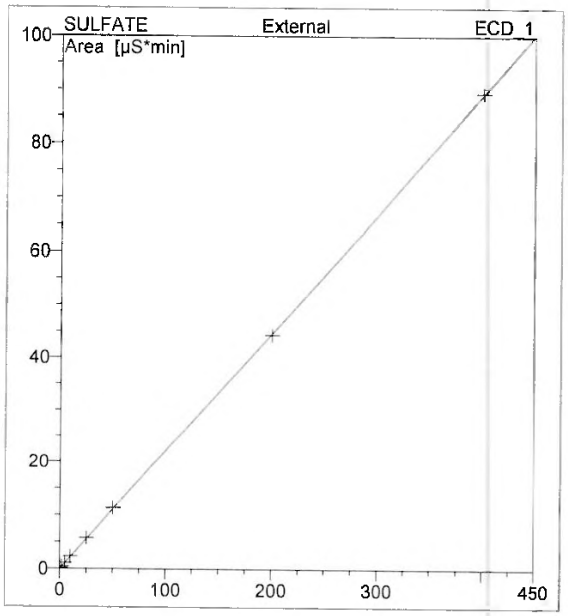


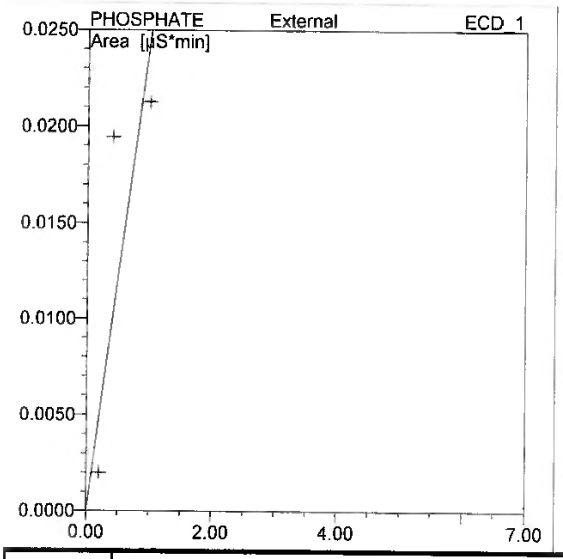




No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	3.18	FLUORIDE	Lin	8	99.9949	0.0000	0.4709	0.0000
2	4.56	CHLORIDE	Lin	8	99.9960	0.0000	0.2991	0.0000
3	5.63	NITRATE	Lin	8	98.9617	0.0000	0.6341	0.0000
4	6.09	SULFATE	Lin	8	99.9988	0.0000	0.2229	0.0000
5	8.14	BROMIDE	Lin	8	99.8849	0.0000	0.1488	0.0000
6	9.75	NITRITE	Lin	8	98.8222	0.0000	0.7011	0.0000
7	13.92	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Average:					99.6098	0.0000	0.4128	0.0000







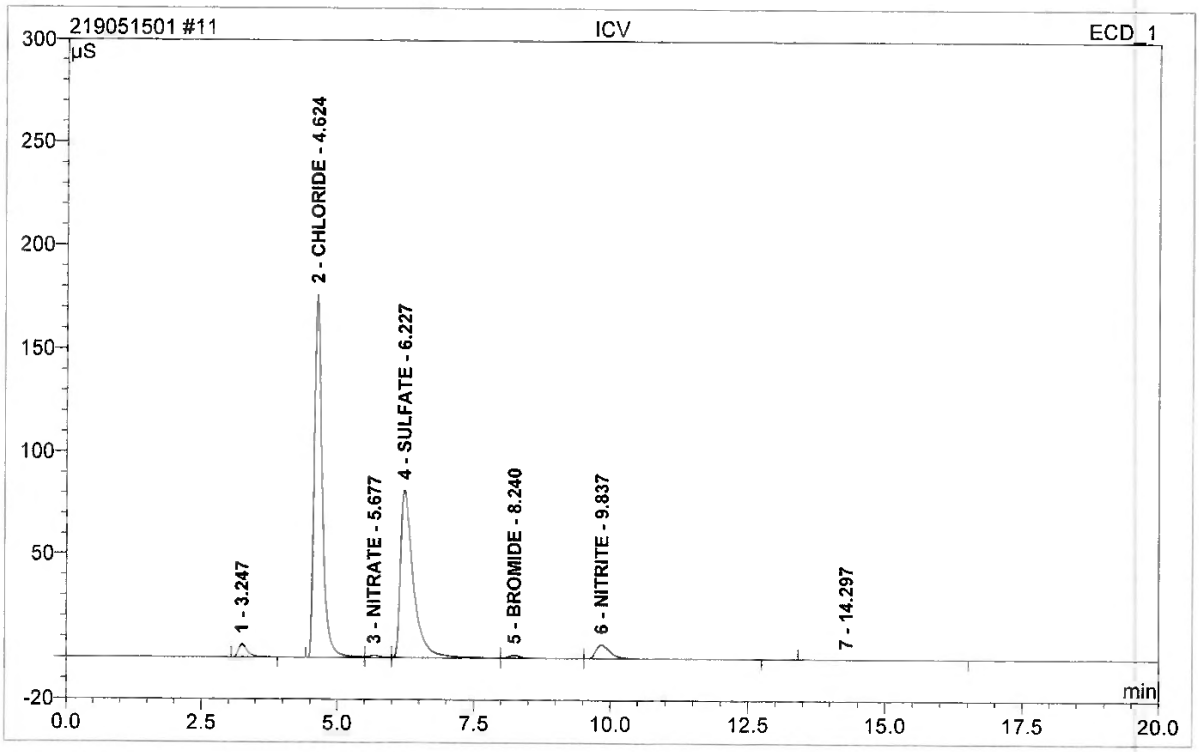
No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	3.18	FLUORIDE	Lin	8	99.9949	0.0000	0.4709	0.0000
2	4.56	CHLORIDE	Lin	8	99.9960	0.0000	0.2991	0.0000
3	5.63	NITRATE	Lin	8	98.9617	0.0000	0.6341	0.0000
4	6.09	SULFATE	Lin	8	99.9988	0.0000	0.2229	0.0000
5	8.14	BROMIDE	Lin	8	99.8849	0.0000	0.1488	0.0000
6	9.75	NITRITE	Lin	8	98.8222	0.0000	0.7011	0.0000
7	13.92	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Average:					99.6098	0.0000	0.4128	0.0000

anions/Calibration(Curr.Peak)

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

11 ICV

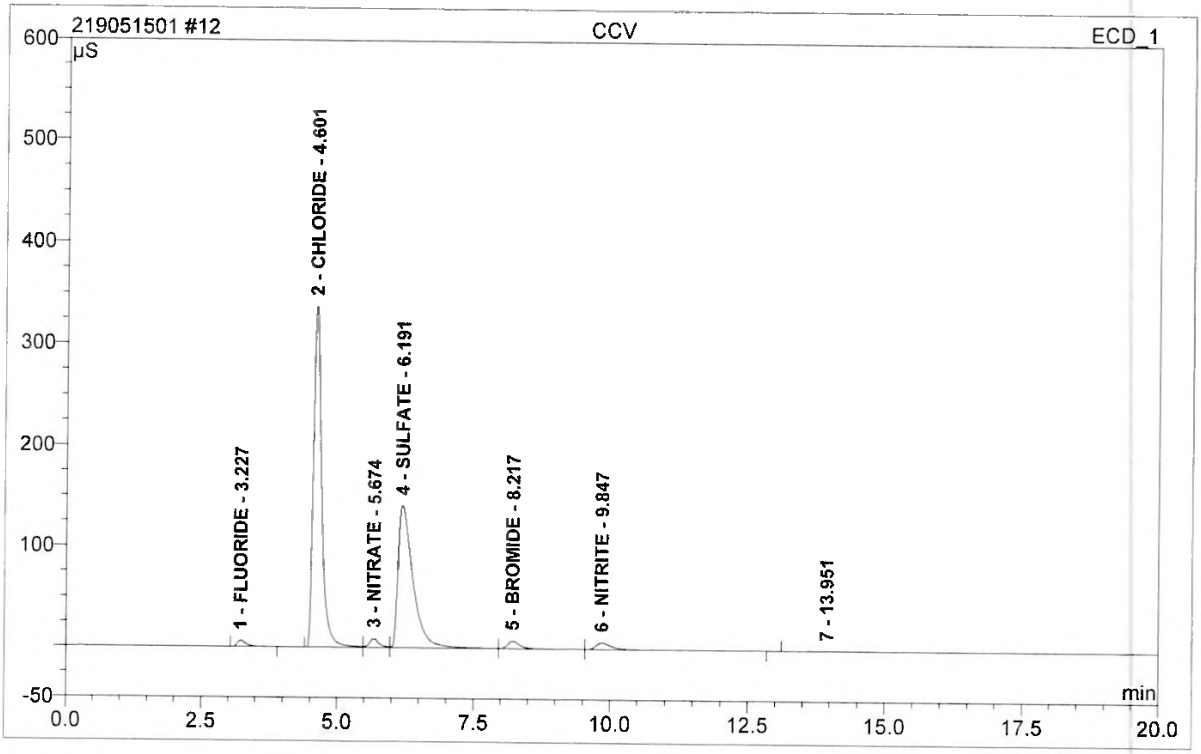
Sample Name:	**ICV**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 9:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.25	n.a.	6.160	1.207	2.14	n.a.	BMB
2	4.62	CHLORIDE	176.126	30.042	53.22	100.445	BM
3	5.68	NITRATE	1.154	0.295	0.52	0.465	M
4	6.23	SULFATE	81.912	22.319	39.54	100.113	M
5	8.24	BROMIDE	1.501	0.447	0.79	3.005	M
6	9.84	NITRITE	6.598	2.123	3.76	3.028	MB
7	14.30	n.a.	0.011	0.019	0.03	n.a.	BMB
Total:			273.461	56.451	100.00	207.056	

12 CCV

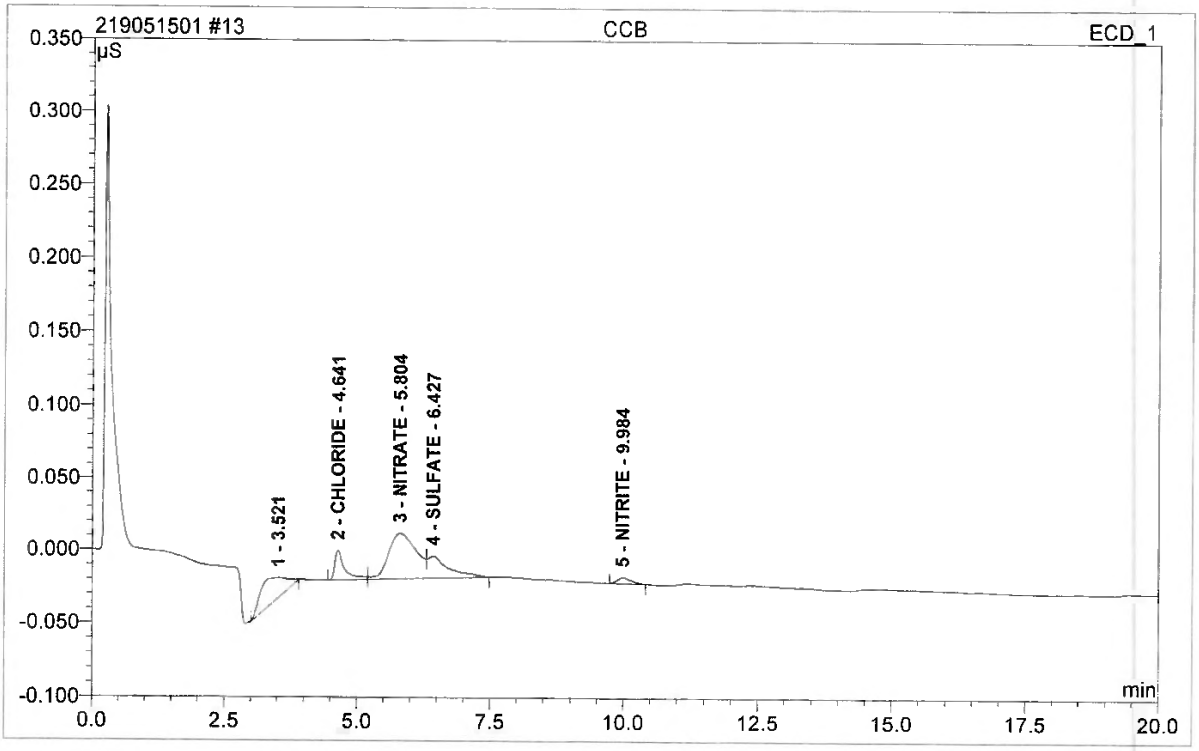
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 10:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.23	FLUORIDE	6.182	1.180	1.05	2.507	BMB
2	4.60	CHLORIDE	337.269	59.681	53.16	199.541	BM
3	5.67	NITRATE	8.866	1.855	1.65	2.925	M
4	6.19	SULFATE	141.251	44.661	39.78	200.332	M
5	8.22	BROMIDE	7.701	2.089	1.86	14.042	M
6	9.85	NITRITE	6.785	2.249	2.00	3.208	MB
7	13.95	n.a.	0.270	0.553	0.49	n.a.	BMB
Total:			508.325	112.269	100.00	422.556	

13 CCB

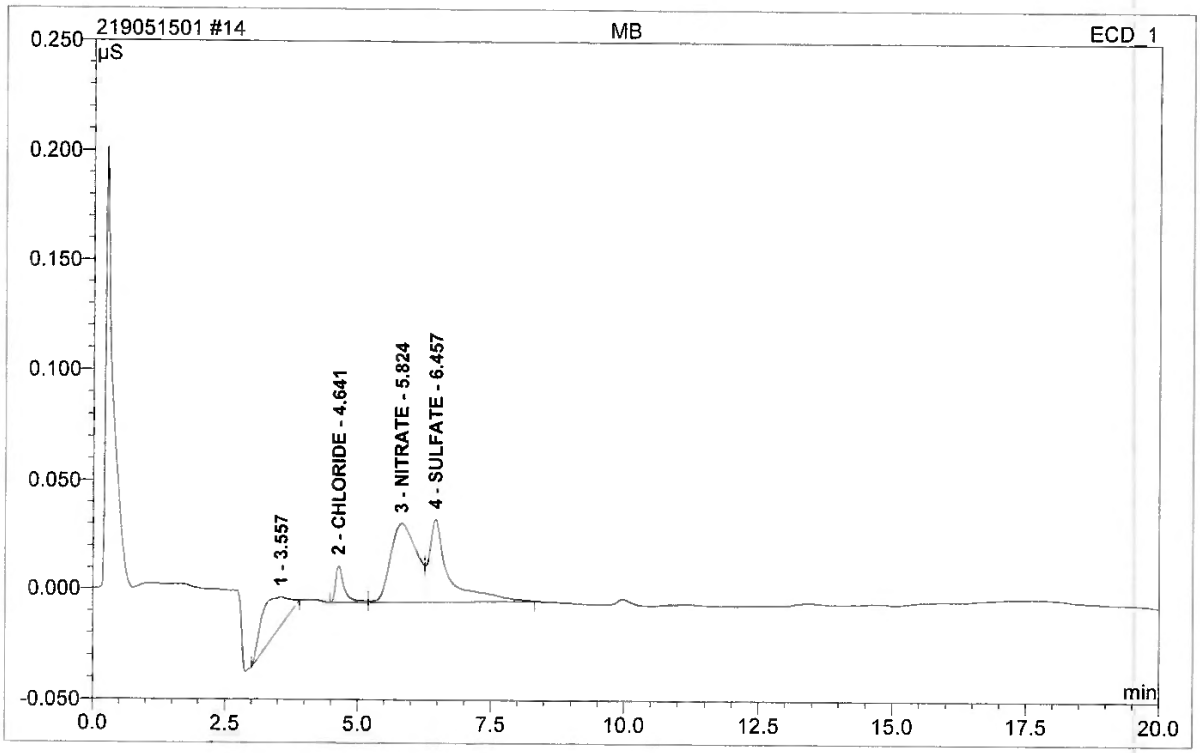
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**4**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 10:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.52	n.a.	0.013	0.009	22.33	n.a.	BMB
2	4.64	CHLORIDE	0.020	0.004	10.88	0.015	BM
3	5.80	NITRATE	0.032	0.019	46.31	0.030	M
4	6.43	SULFATE	0.015	0.007	17.40	0.032	MB
5	9.98	NITRITE	0.004	0.001	3.07	0.002	BMB
Total:			0.085	0.041	100.00	0.078	

14 MB

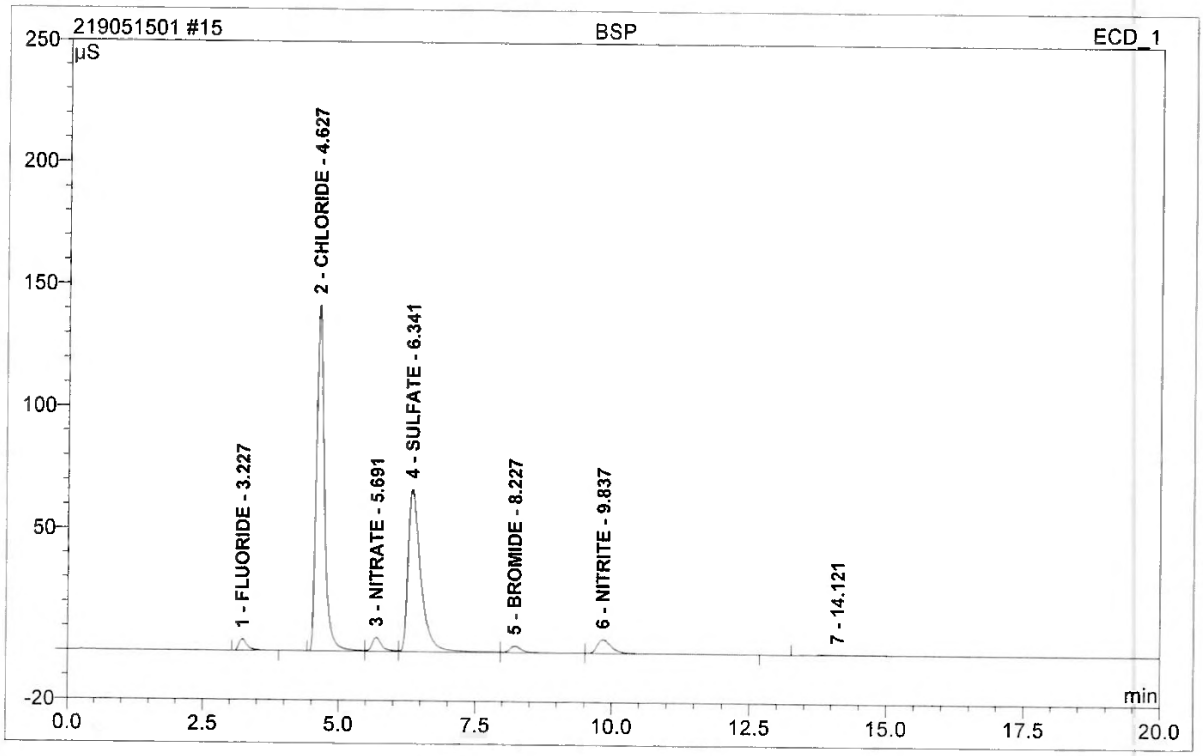
Sample Name:	**MB**	*Injection Volume:*	**20.0**
Vial Number:	**5**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 10:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.56	n.a.	0.013	0.010	19.33	n.a.	BMB
2	4.64	CHLORIDE	0.017	0.003	6.33	0.010	BM
3	5.82	NITRATE	0.036	0.020	41.22	0.032	M
4	6.46	SULFATE	0.038	0.016	33.13	0.074	MB
Total:			0.104	0.050	100.00	0.116	

15 BSP

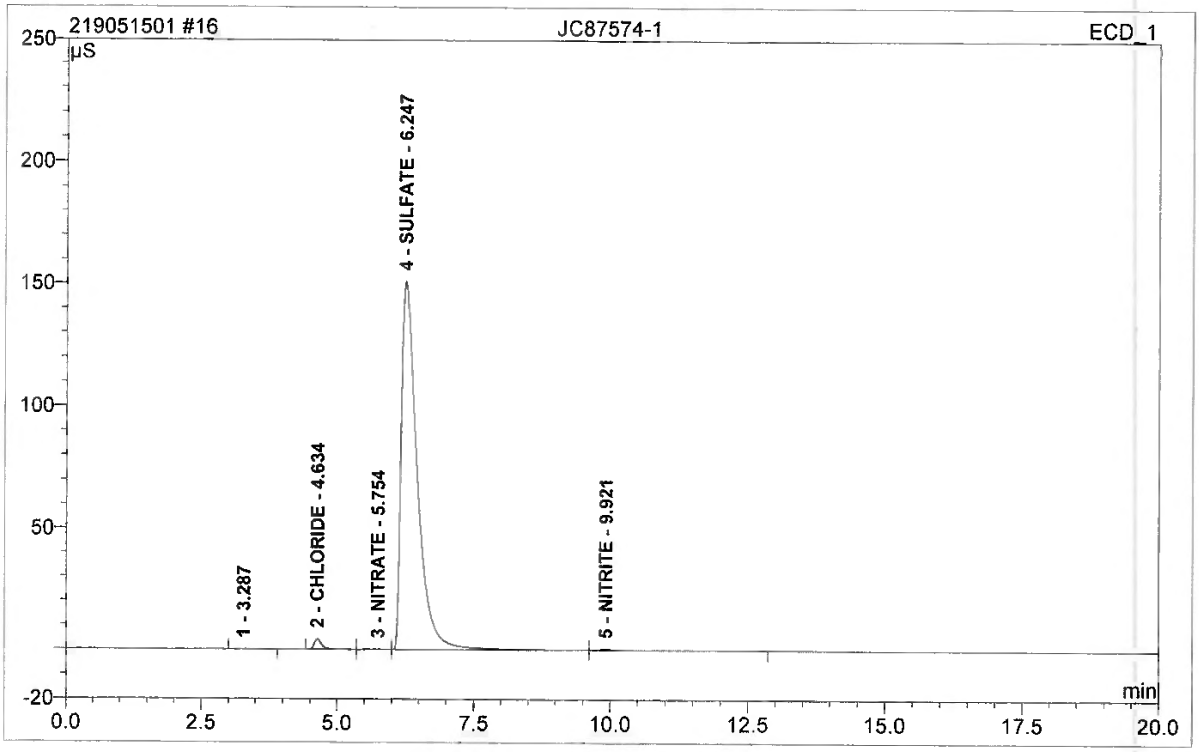
Sample Name:	**BSP**	*Injection Volume:*	**20.0**
Vial Number:	**6**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 11:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.23	FLUORIDE	4.627	0.830	1.77	1.763	BMB
2	4.63	CHLORIDE	141.674	24.085	51.41	80.526	BM
3	5.69	NITRATE	5.659	1.180	2.52	1.861	M
4	6.34	SULFATE	66.807	17.851	38.11	80.073	M
5	8.23	BROMIDE	2.691	0.713	1.52	4.794	M
6	9.84	NITRITE	5.595	1.760	3.76	2.511	MB
7	14.12	n.a.	0.211	0.426	0.91	n.a.	BMB
Total:			227.264	46.845	100.00	171.527	

16 JC87574-1

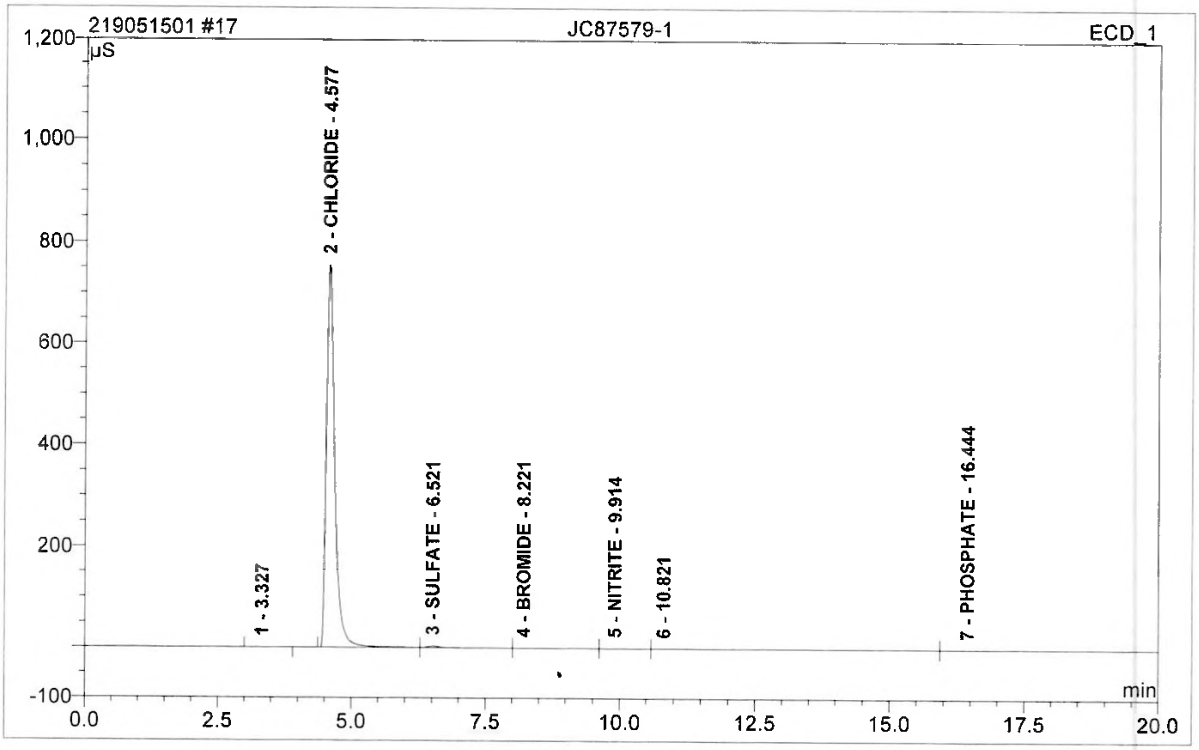
Sample Name:	**JC87574-1**	*Injection Volume:*	**20.0**
Vial Number:	**7**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**25.0000**
Recording Time:	**5/15/2019 12:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.29	n.a.	0.053	0.019	0.04	n.a.	BMB
2	4.63	CHLORIDE	4.185	0.661	1.27	55.244	BM
3	5.75	NITRATE	0.057	0.026	0.05	1.028	M
4	6.25	SULFATE	151.127	51.175	98.25	5738.764	M
5	9.92	NITRITE	0.441	0.207	0.40	7.387	MB
Total:			155.863	52.088	100.00	5802.423	

17 JC87579-1

Sample Name:	**JC87579-1**	*Injection Volume:*	**20.0**
Vial Number:	**8**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 12:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

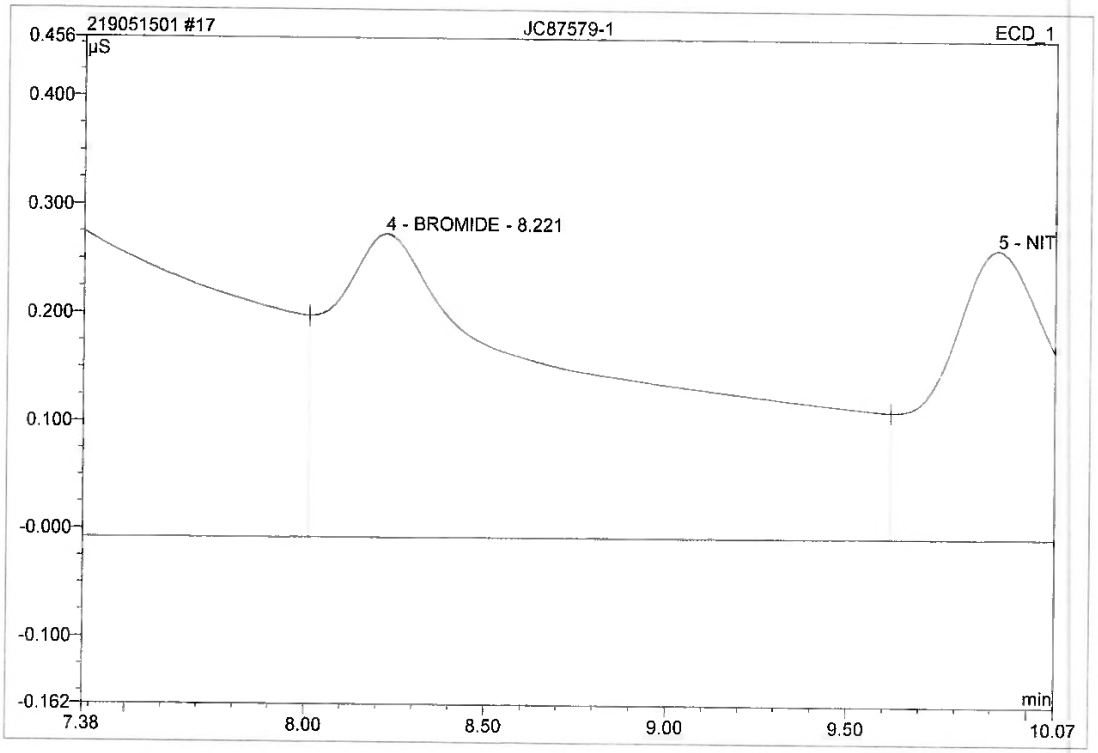


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.133	0.042	0.03	n.a.	BMB
2	4.58	CHLORIDE	755.147	138.618	98.53	4634.623	BM
3	6.52	SULFATE	3.320	1.286	0.91	57.690	M
4	8.22	BROMIDE	0.281	0.272	0.19	18.318	M
5	9.91	NITRITE	0.268	0.147	0.10	2.094	M
6	10.82	n.a.	0.108	0.263	0.19	n.a.	M
7	16.44	PHOSPHATE	0.031	0.060	0.04	24.267	MB
Total:			759.288	140.689	100.00	4736.992	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

17 JC87579-1

Sample Name:	**JC87579-1**	*Injection Volume:*	**20.0**
Vial Number:	**8**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 12:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.133	0.042	0.03	n.a.	BMB
2	4.58	CHLORIDE	755.147	138.618	98.53	4634.623	BM
3	6.52	SULFATE	3.320	1.286	0.91	57.690	M
4	8.22	BROMIDE	0.281	0.272	0.19	18.318	M
5	9.91	NITRITE	0.268	0.147	0.10	2.094	M
6	10.82	n.a.	0.108	0.263	0.19	n.a.	M
7	16.44	PHOSPHATE	0.031	0.060	0.04	24.267	MB
Total:			759.288	140.689	100.00	4736.992	

DEFAULT/Integration

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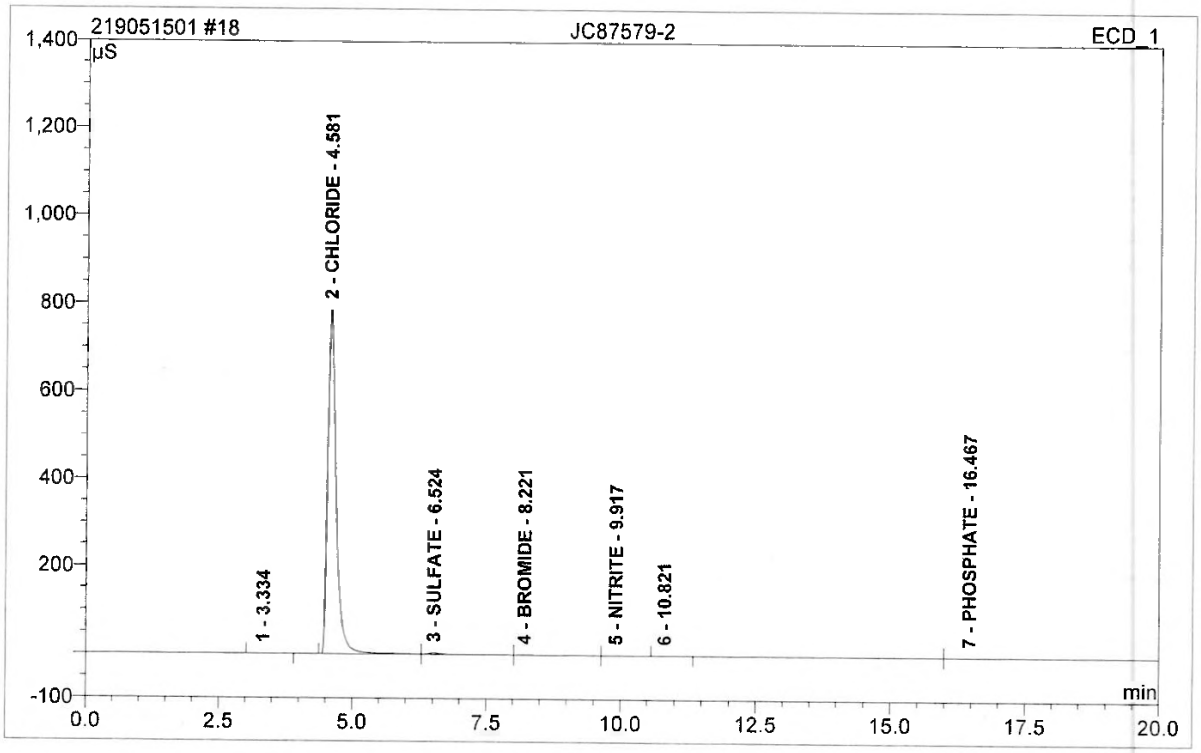
Version 6.80 SR9a Build 2680 (163077)

18 JC87579-2

Sample Name:	**JC87579-2**	*Injection Volume:*	**20.0**
Vial Number:	**9**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 13:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

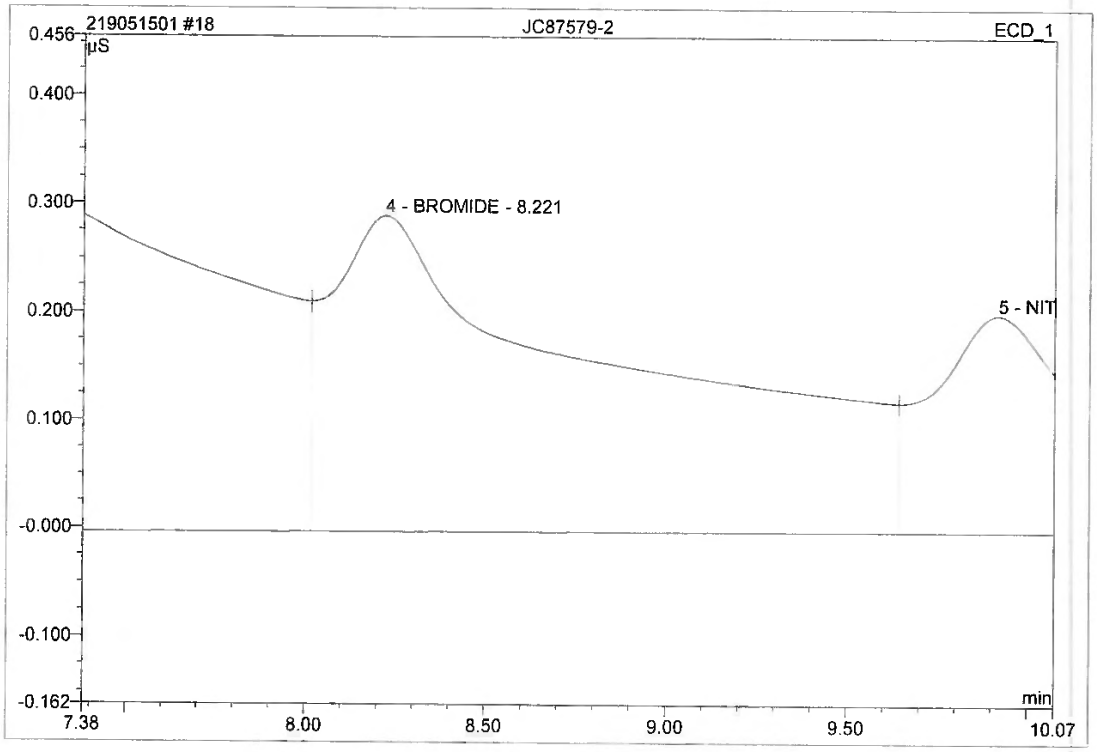


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.145	0.045	0.03	n.a.	BMB
2	4.58	CHLORIDE	785.087	144.072	98.62	4816.968	BM
3	6.52	SULFATE	3.170	1.256	0.86	56.335	M
4	8.22	BROMIDE	0.292	0.283	0.19	19.006	M
5	9.92	NITRITE	0.202	0.379	0.26	5.411	M
6	10.82	n.a.	0.025	0.008	0.01	n.a.	Rd
7	16.47	PHOSPHATE	0.028	0.040	0.03	16.478	MB
Total:			788.950	146.083	100.00	4914.198	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

18 JC87579-2

Sample Name:	**JC87579-2**	*Injection Volume:*	**20.0**
Vial Number:	**9**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 13:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



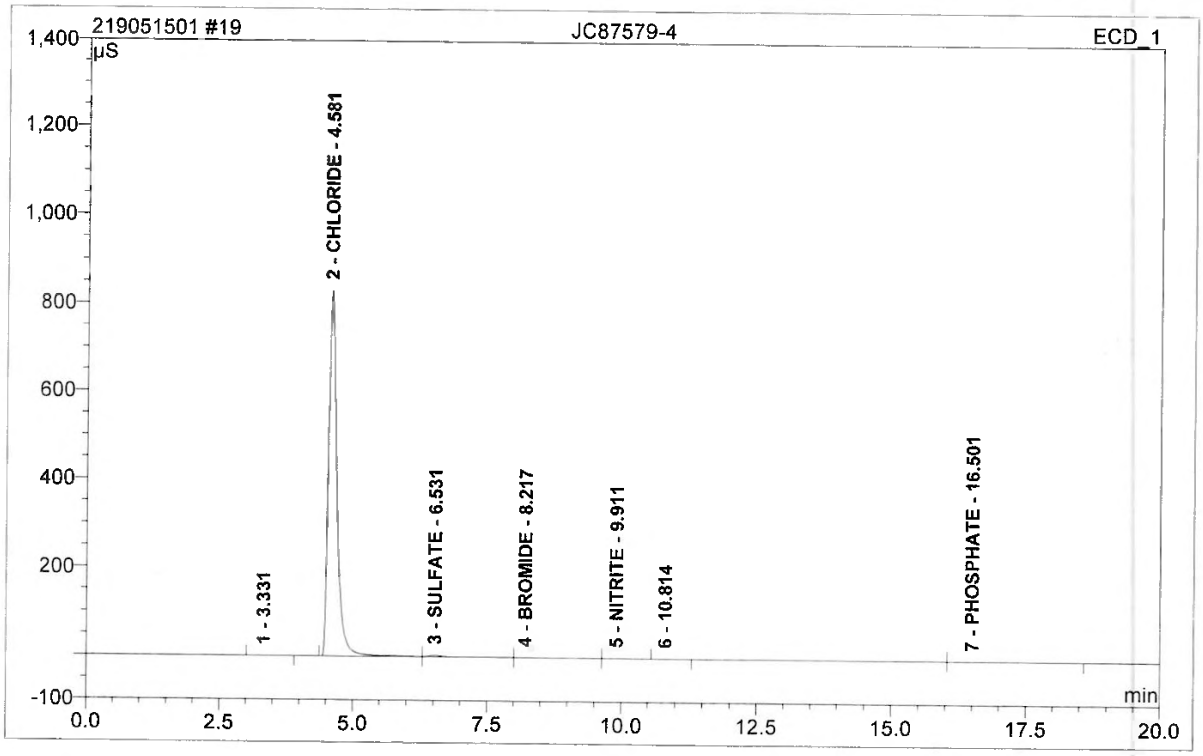
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.145	0.045	0.03	n.a.	BMB
2	4.58	CHLORIDE	785.087	144.072	98.62	4816.968	BM
3	6.52	SULFATE	3.170	1.256	0.86	56.335	M
4	8.22	BROMIDE	0.292	0.283	0.19	19.006	M
5	9.92	NITRITE	0.202	0.379	0.26	5.411	M
6	10.82	n.a.	0.025	0.008	0.01	n.a.	Rd
7	16.47	PHOSPHATE	0.028	0.040	0.03	16.478	MB
Total:			788.950	146.083	100.00	4914.198	

DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

19 JC87579-4

Sample Name:	**JC87579-4**	*Injection Volume:*	**20.0**
Vial Number:	**10**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 13:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

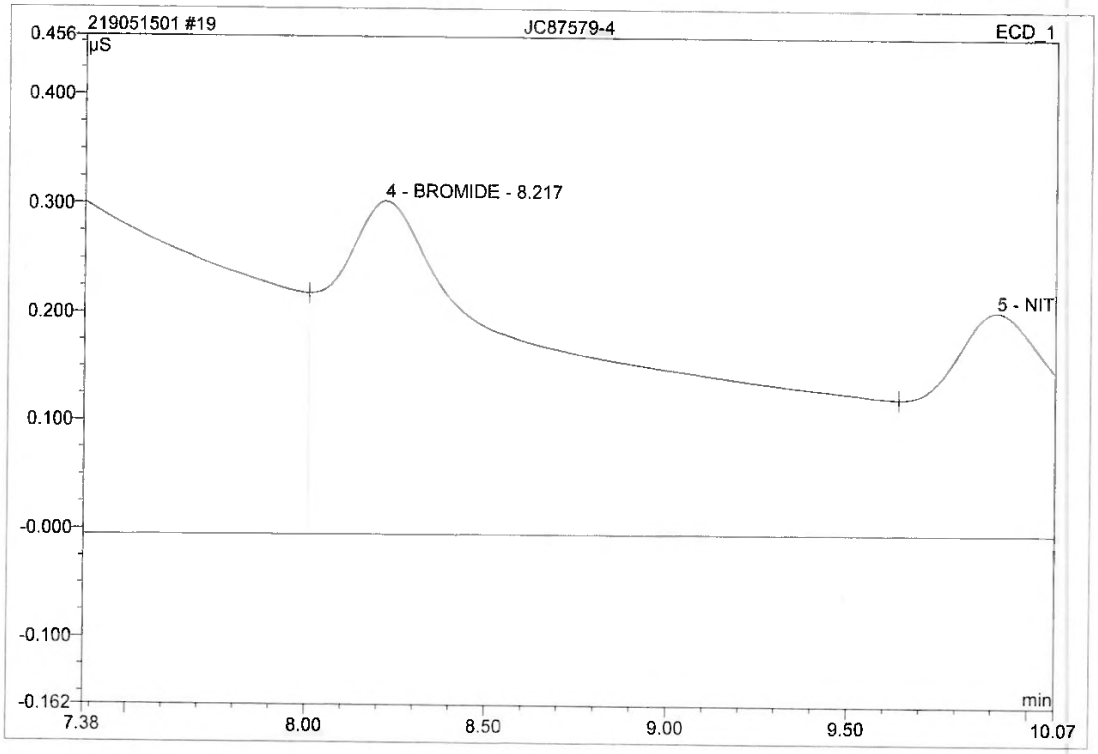


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.159	0.048	0.03	n.a.	BMB
2	4.58	CHLORIDE	829.620	152.339	98.64	5093.376	BM
3	6.53	SULFATE	3.341	1.314	0.85	58.962	M
4	8.22	BROMIDE	0.308	0.296	0.19	19.922	M
5	9.91	NITRITE	0.207	0.403	0.26	5.751	M
6	10.81	n.a.	0.028	0.008	0.01	n.a.	Rd
7	16.50	PHOSPHATE	0.028	0.028	0.02	11.608	MB
Total:			833.691	154.438	100.00	5189.620	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

19 JC87579-4

Sample Name:	**JC87579-4**	*Injection Volume:*	**20.0**
Vial Number:	**10**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 13:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

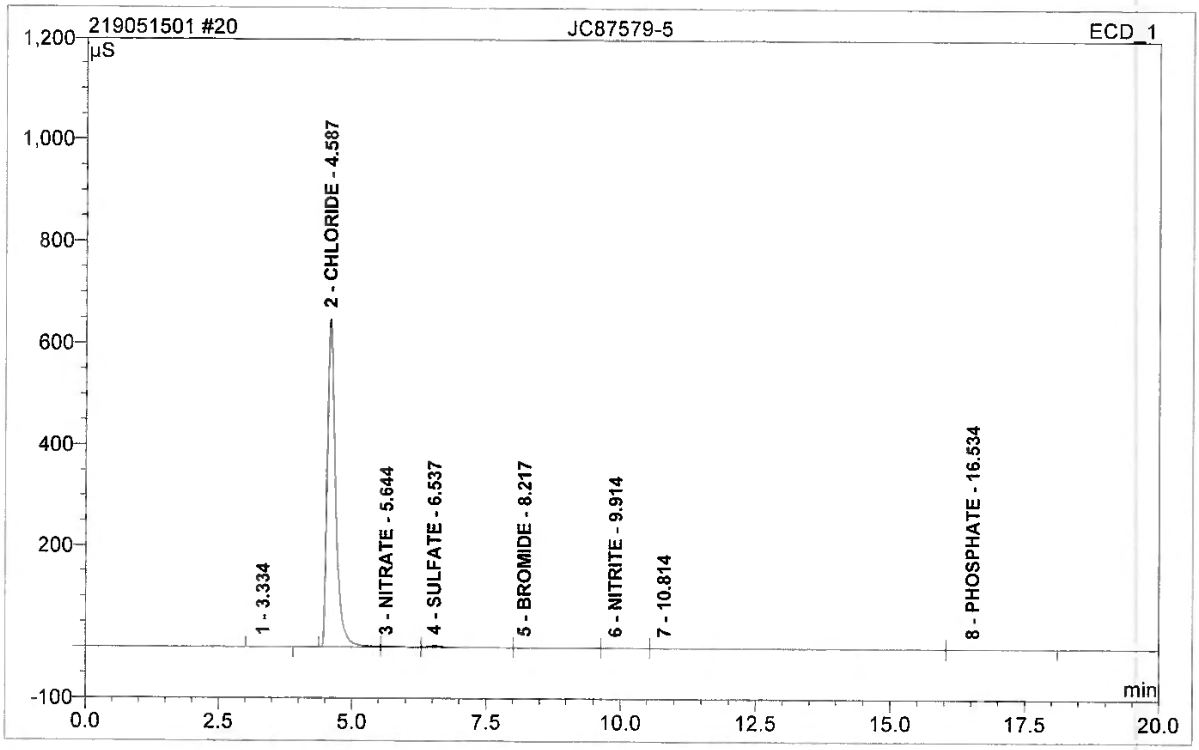


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.159	0.048	0.03	n.a.	BMB
2	4.58	CHLORIDE	829.620	152.339	98.64	5093.376	BM
3	6.53	SULFATE	3.341	1.314	0.85	58.962	M
4	8.22	BROMIDE	0.308	0.296	0.19	19.922	M
5	9.91	NITRITE	0.207	0.403	0.26	5.751	M
6	10.81	n.a.	0.028	0.008	0.01	n.a.	Rd
7	16.50	PHOSPHATE	0.028	0.028	0.02	11.608	MB
Total:			833.691	154.438	100.00	5189.620	

DEFAULT/Integration

20 JC87579-5

Sample Name:	**JC87579-5**	*Injection Volume:*	**20.0**
Vial Number:	**11**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 14:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



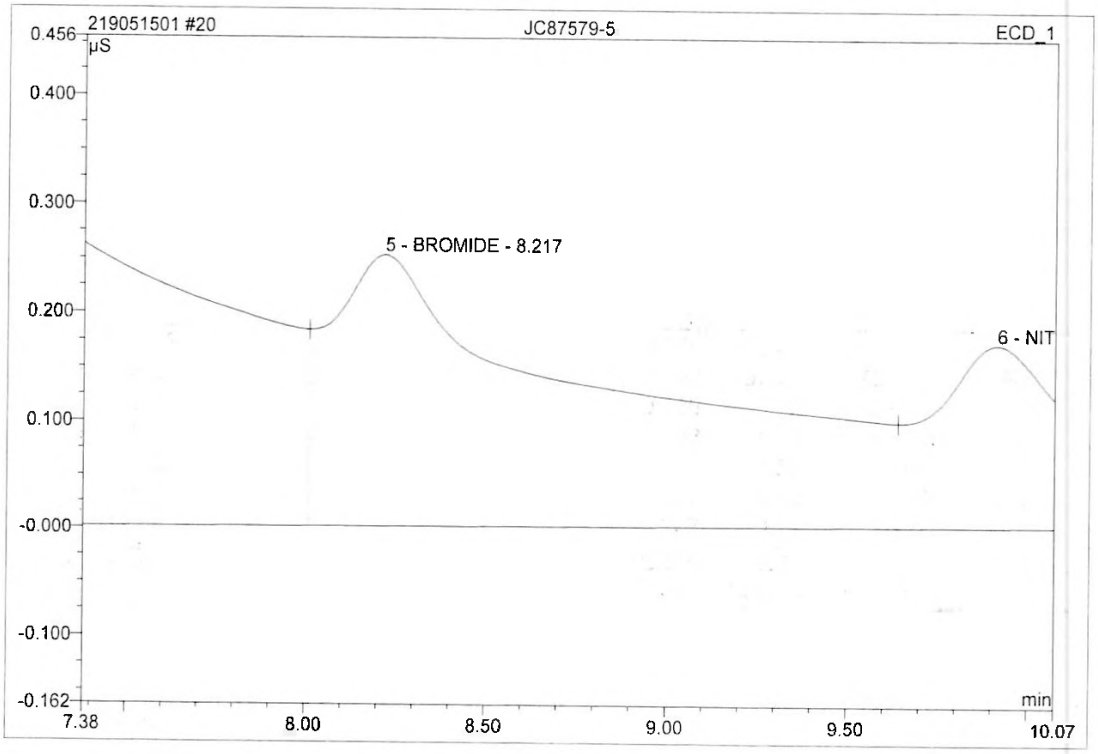
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.185	0.055	0.05	n.a.	BMB
2	4.59	CHLORIDE	648.628	118.142	97.73	3950.008	BM
3	5.64	NITRATE	1.721	0.866	0.72	13.661	M
4	6.54	SULFATE	3.502	1.268	1.05	56.895	M
5	8.22	BROMIDE	0.251	0.237	0.20	15.959	M
6	9.91	NITRITE	0.170	0.100	0.08	1.432	M
7	10.81	n.a.	0.105	0.203	0.17	n.a.	M
8	16.53	PHOSPHATE	0.022	0.018	0.01	7.144	MB
Total:			654.584	120.890	100.00	4045.097	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

5/16/2019 10:27 AM

20 JC87579-5

Sample Name:	**JC87579-5**	*Injection Volume:*	**20.0**
Vial Number:	**11**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 14:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.185	0.055	0.05	n.a.	BMB
2	4.59	CHLORIDE	648.628	118.142	97.73	3950.008	BM
3	5.64	NITRATE	1.721	0.866	0.72	13.661	M
4	6.54	SULFATE	3.502	1.268	1.05	56.895	M
5	8.22	BROMIDE	0.251	0.237	0.20	15.959	M
6	9.91	NITRITE	0.170	0.100	0.08	1.432	M
7	10.81	n.a.	0.105	0.203	0.17	n.a.	M
8	16.53	PHOSPHATE	0.022	0.018	0.01	7.144	MB
Total:			654.584	120.890	100.00	4045.097	

DEFAULT/Integration

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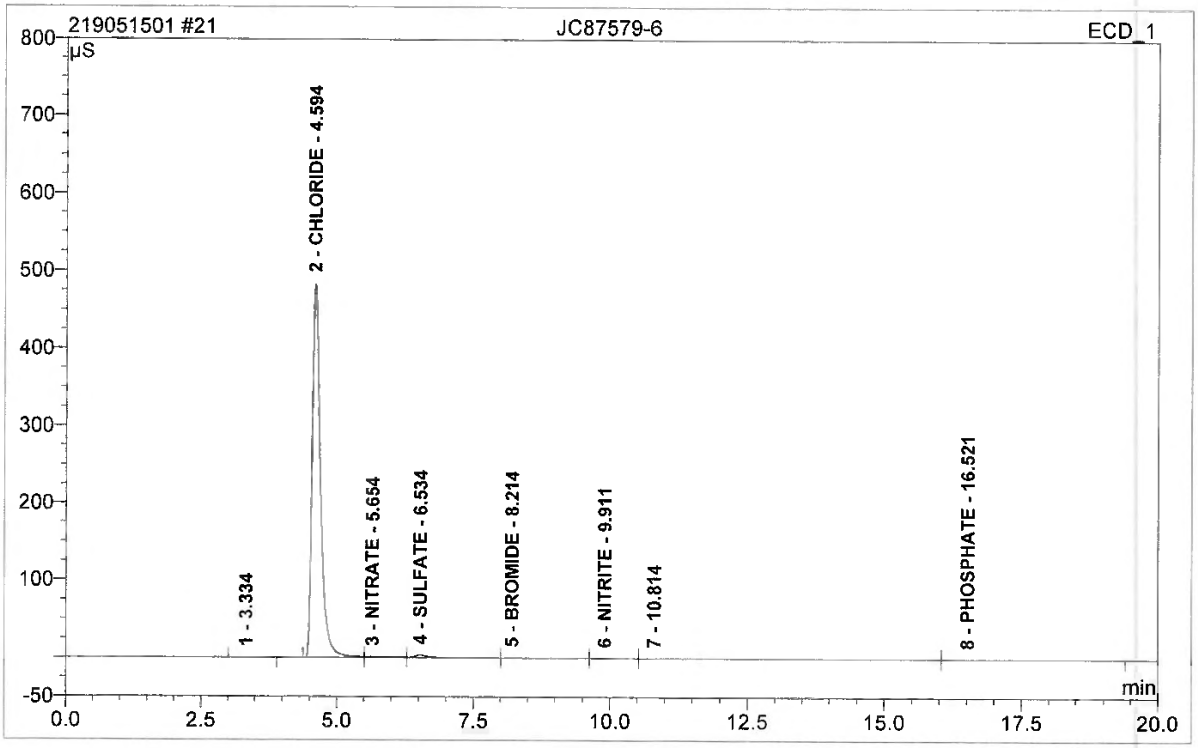
Version 6.80 SR9a Build 2680 (163077)

21 JC87579-6

Sample Name:	**JC87579-6**	*Injection Volume:*	**20.0**
Vial Number:	**12**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 14:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



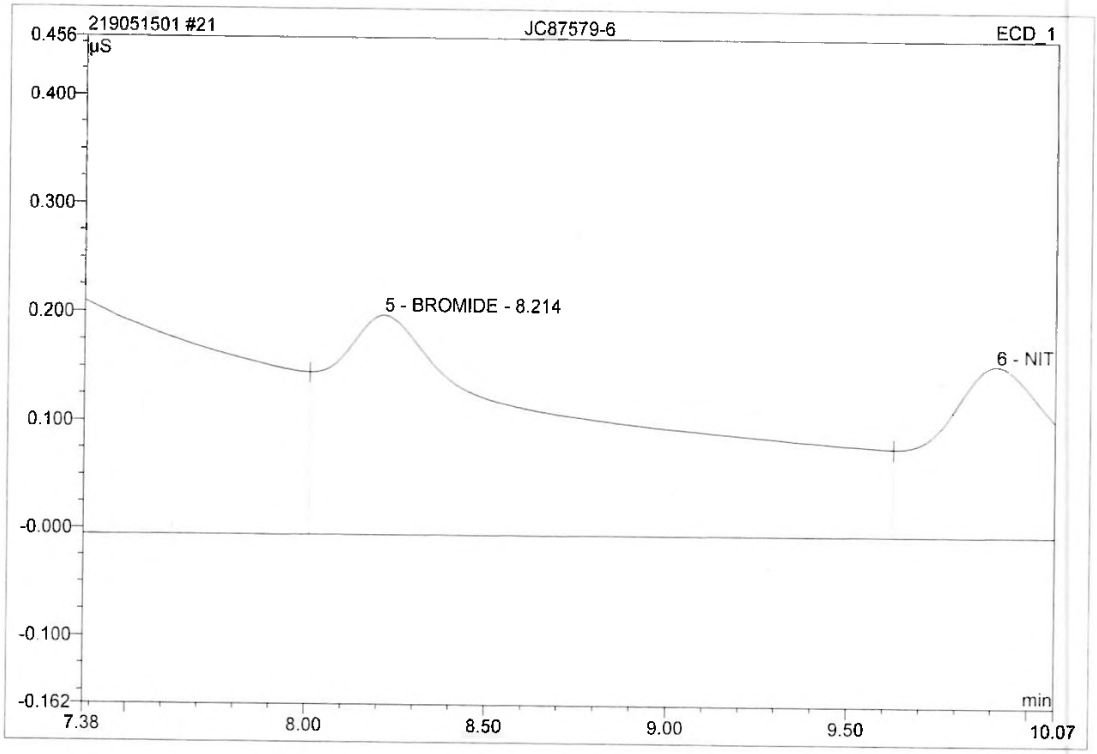
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.166	0.050	0.06	n.a.	BMB
2	4.59	CHLORIDE	483.507	87.263	97.29	2917.596	BM
3	5.65	NITRATE	1.392	0.728	0.81	11.484	M
4	6.53	SULFATE	3.404	1.165	1.30	52.266	M
5	8.21	BROMIDE	0.203	0.194	0.22	13.024	M
6	9.91	NITRITE	0.159	0.090	0.10	1.281	M
7	10.81	n.a.	0.098	0.184	0.21	n.a.	M
8	16.52	PHOSPHATE	0.019	0.022	0.02	8.944	MB
Total:			488.948	89.696	100.00	3004.595	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

5/16/2019 10:27 AM

21 JC87579-6

Sample Name:	**JC87579-6**	*Injection Volume:*	**20.0**
Vial Number:	**12**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 14:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



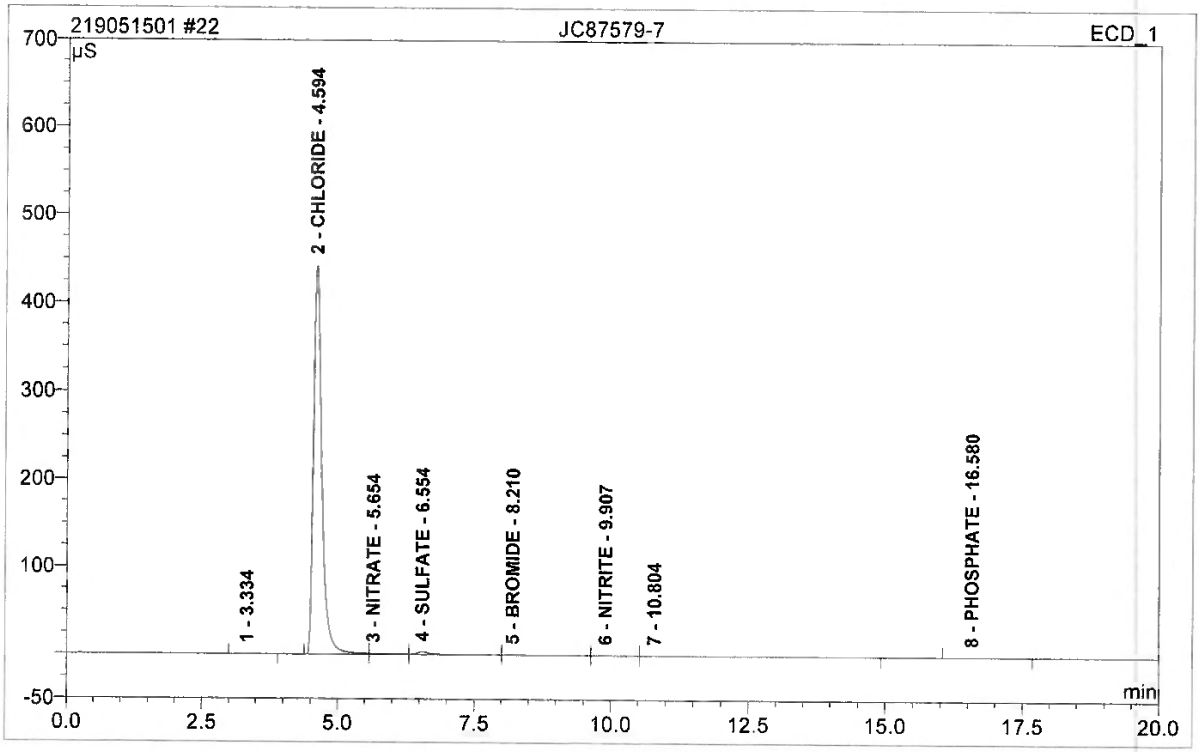
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.166	0.050	0.06	n.a.	BMB
2	4.59	CHLORIDE	483.507	87.263	97.29	2917.596	BM
3	5.65	NITRATE	1.392	0.728	0.81	11.484	M
4	6.53	SULFATE	3.404	1.165	1.30	52.266	M
5	8.21	BROMIDE	0.203	0.194	0.22	13.024	M
6	9.91	NITRITE	0.159	0.090	0.10	1.281	M
7	10.81	n.a.	0.098	0.184	0.21	n.a.	M
8	16.52	PHOSPHATE	0.019	0.022	0.02	8.944	MB
Total:			488.948	89.696	100.00	3004.595	

DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

22 JC87579-7

Sample Name:	**JC87579-7**	*Injection Volume:*	**20.0**
Vial Number:	**13**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 14:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

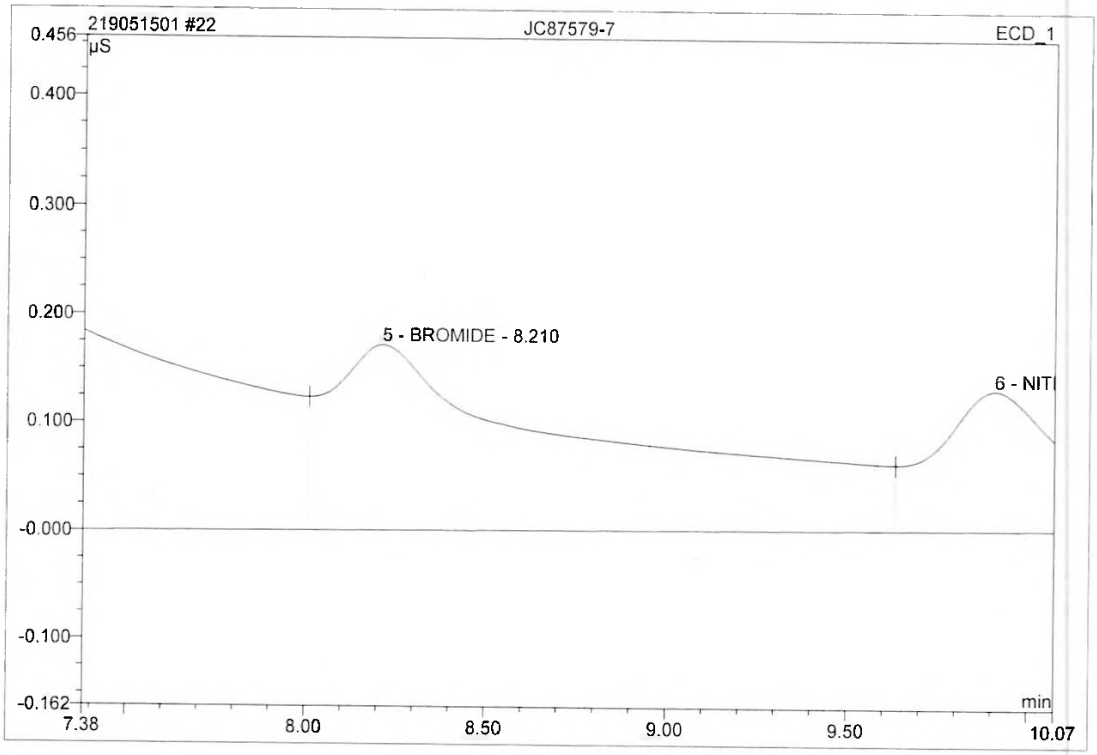


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.152	0.047	0.06	n.a.	BMB
2	4.59	CHLORIDE	442.334	79.753	97.66	2666.496	BM
3	5.65	NITRATE	1.031	0.520	0.64	8.193	M
4	6.55	SULFATE	3.063	1.026	1.26	46.020	M
5	8.21	BROMIDE	0.171	0.155	0.19	10.388	M
6	9.91	NITRITE	0.130	0.068	0.08	0.974	M
7	10.80	n.a.	0.075	0.090	0.11	n.a.	MB
8	16.58	PHOSPHATE	0.009	0.005	0.01	2.221	BMB
Total:			446.966	81.663	100.00	2734.291	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

22 JC87579-7

Sample Name:	**JC87579-7**	*Injection Volume:*	**20.0**
Vial Number:	**13**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 14:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

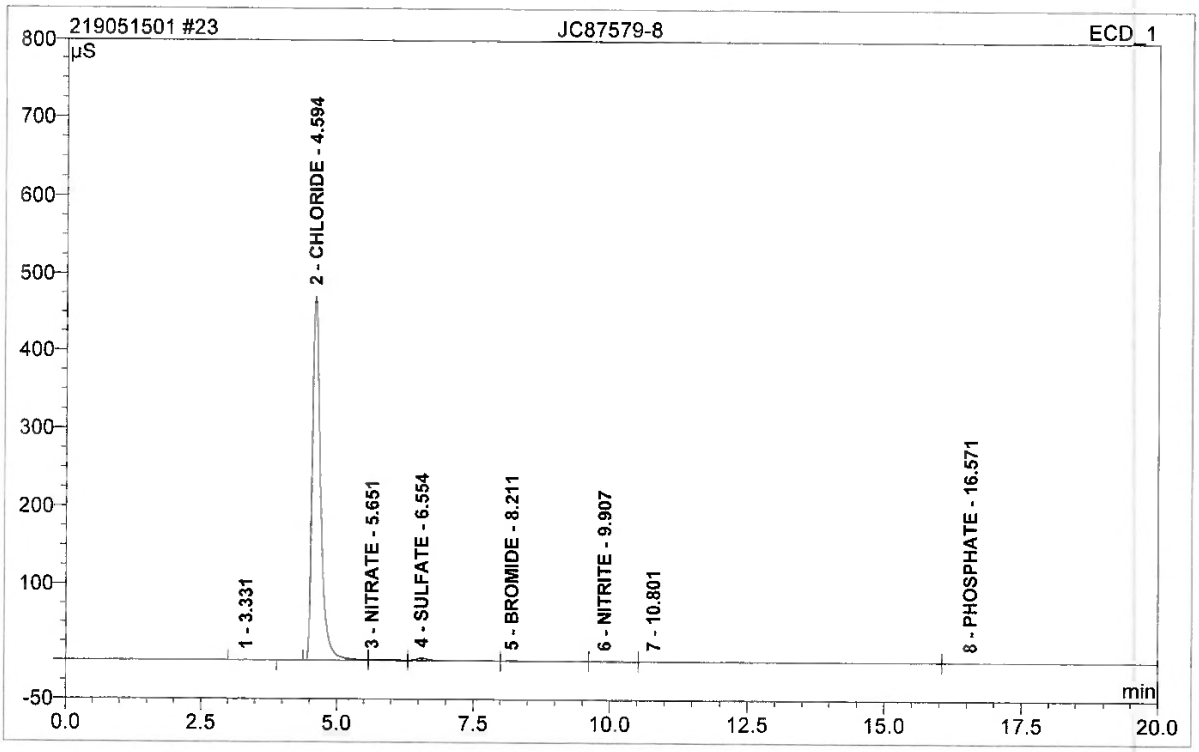


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.152	0.047	0.06	n.a.	BMB
2	4.59	CHLORIDE	442.334	79.753	97.66	2666.496	BM
3	5.65	NITRATE	1.031	0.520	0.64	8.193	M
4	6.55	SULFATE	3.063	1.026	1.26	46.020	M
5	8.21	BROMIDE	0.171	0.155	0.19	10.388	M
6	9.91	NITRITE	0.130	0.068	0.08	0.974	M
7	10.80	n.a.	0.075	0.090	0.11	n.a.	MB
8	16.58	PHOSPHATE	0.009	0.005	0.01	2.221	BMB
Total:			446.966	81.663	100.00	2734.291	

DEFAULT/Integration

23 JC87579-8

Sample Name:	**JC87579-8**	*Injection Volume:*	**20.0**
Vial Number:	**14**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 15:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

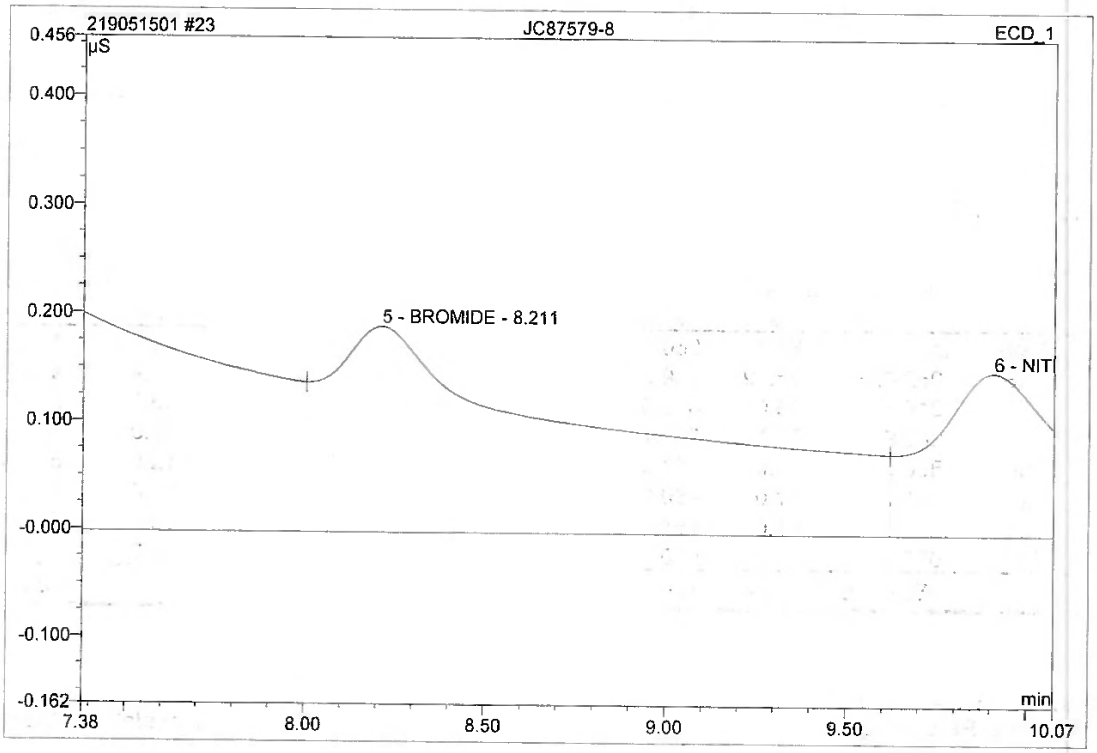


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.169	0.050	0.06	n.a.	BMB
2	4.59	CHLORIDE	470.905	84.950	97.54	2840.260	BM
3	5.65	NITRATE	1.080	0.540	0.62	8.512	M
4	6.55	SULFATE	3.313	1.108	1.27	49.689	M
5	8.21	BROMIDE	0.190	0.178	0.20	11.995	M
6	9.91	NITRITE	0.151	0.084	0.10	1.192	M
7	10.80	n.a.	0.091	0.161	0.18	n.a.	M
8	16.57	PHOSPHATE	0.017	0.020	0.02	8.030	MB
Total:			475.916	87.091	100.00	2919.678	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

23 JC87579-8

Sample Name:	**JC87579-8**	*Injection Volume:*	**20.0**
Vial Number:	**14**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 15:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



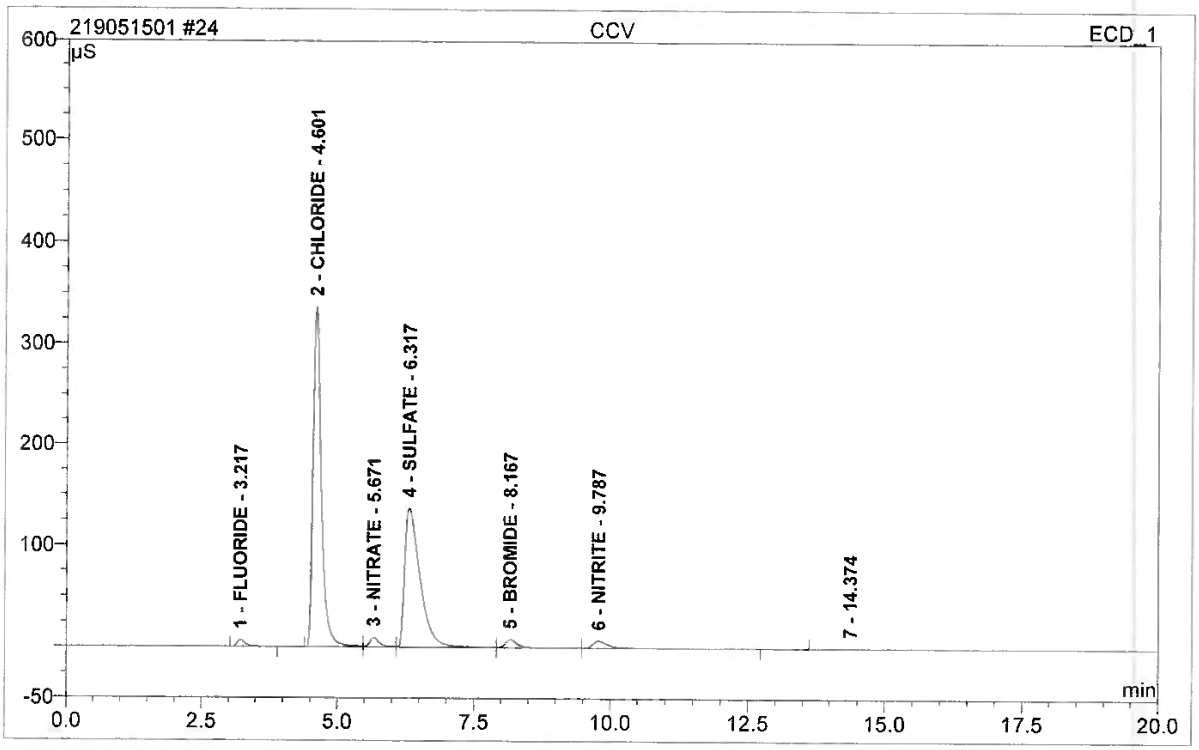
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.169	0.050	0.06	n.a.	BMB
2	4.59	CHLORIDE	470.905	84.950	97.54	2840.260	BM
3	5.65	NITRATE	1.080	0.540	0.62	8.512	M
4	6.55	SULFATE	3.313	1.108	1.27	49.689	M
5	8.21	BROMIDE	0.190	0.178	0.20	11.995	M
6	9.91	NITRITE	0.151	0.084	0.10	1.192	M
7	10.80	n.a.	0.091	0.161	0.18	n.a.	M
8	16.57	PHOSPHATE	0.017	0.020	0.02	8.030	MB
Total:			475.916	87.091	100.00	2919.678	

DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

24 CCV

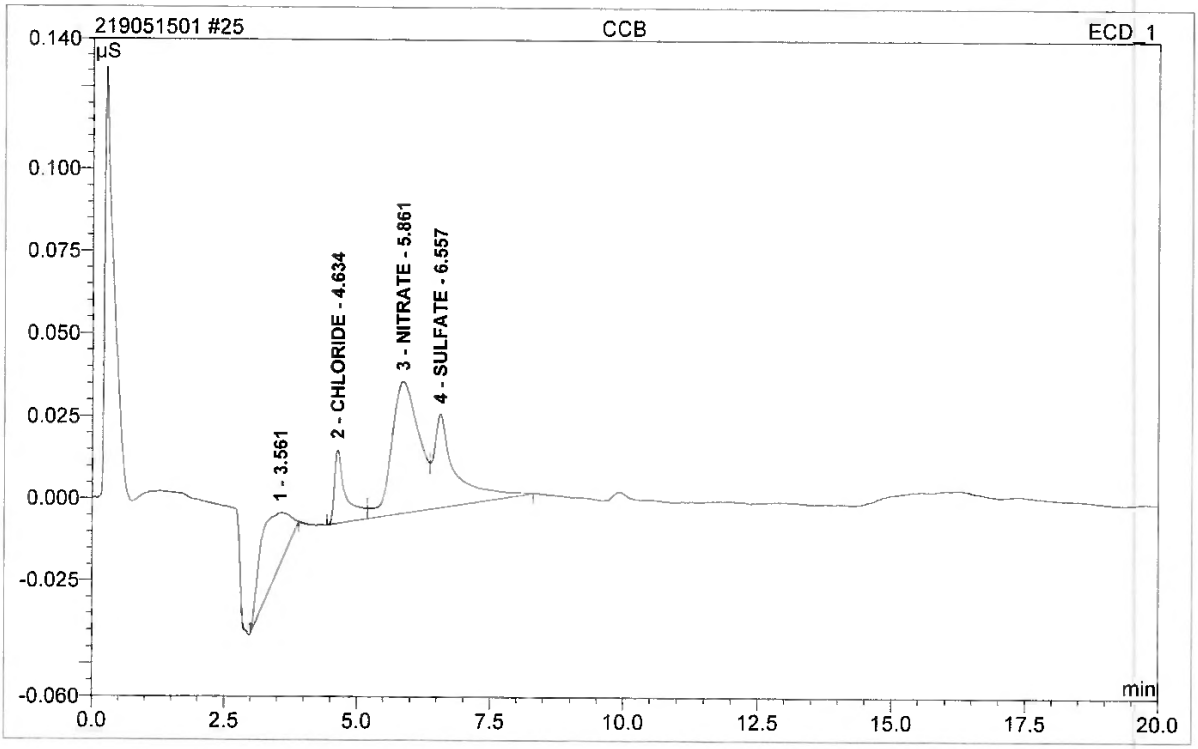
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**15**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 15:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.22	FLUORIDE	6.718	1.244	1.11	2.642	BMB
2	4.60	CHLORIDE	336.389	59.611	53.02	199.306	BM
3	5.67	NITRATE	9.100	1.973	1.75	3.111	M
4	6.32	SULFATE	137.211	44.624	39.69	200.166	M
5	8.17	BROMIDE	7.848	2.112	1.88	14.198	M
6	9.79	NITRITE	6.910	2.268	2.02	3.235	MB
7	14.37	n.a.	0.377	0.599	0.53	n.a.	BMB
Total:			504.554	112.430	100.00	422.658	

25 CCB

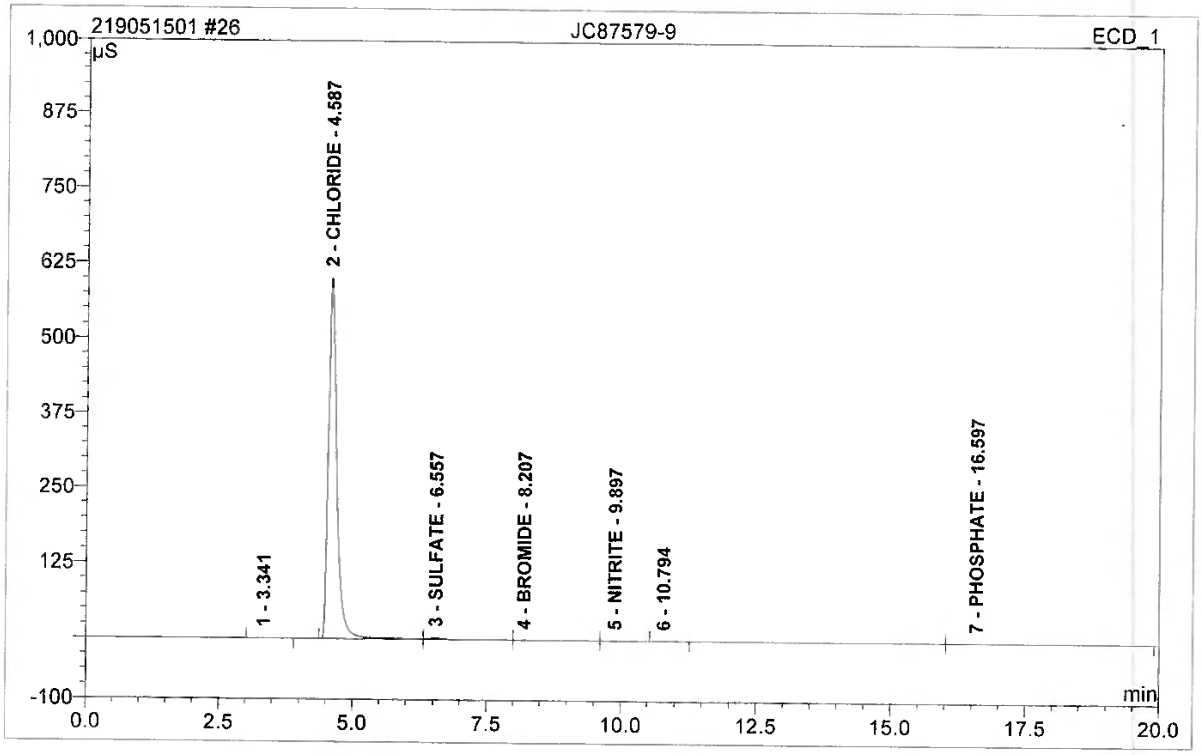
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**16**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 16:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.56	n.a.	0.015	0.012	21.47	n.a.	BMB
2	4.63	CHLORIDE	0.022	0.006	10.27	0.019	BM
3	5.86	NITRATE	0.040	0.024	43.25	0.037	M
4	6.56	SULFATE	0.028	0.014	25.02	0.061	MB
Total:			0.106	0.055	100.00	0.117	

26 JC87579-9

Sample Name:	**JC87579-9**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 16:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

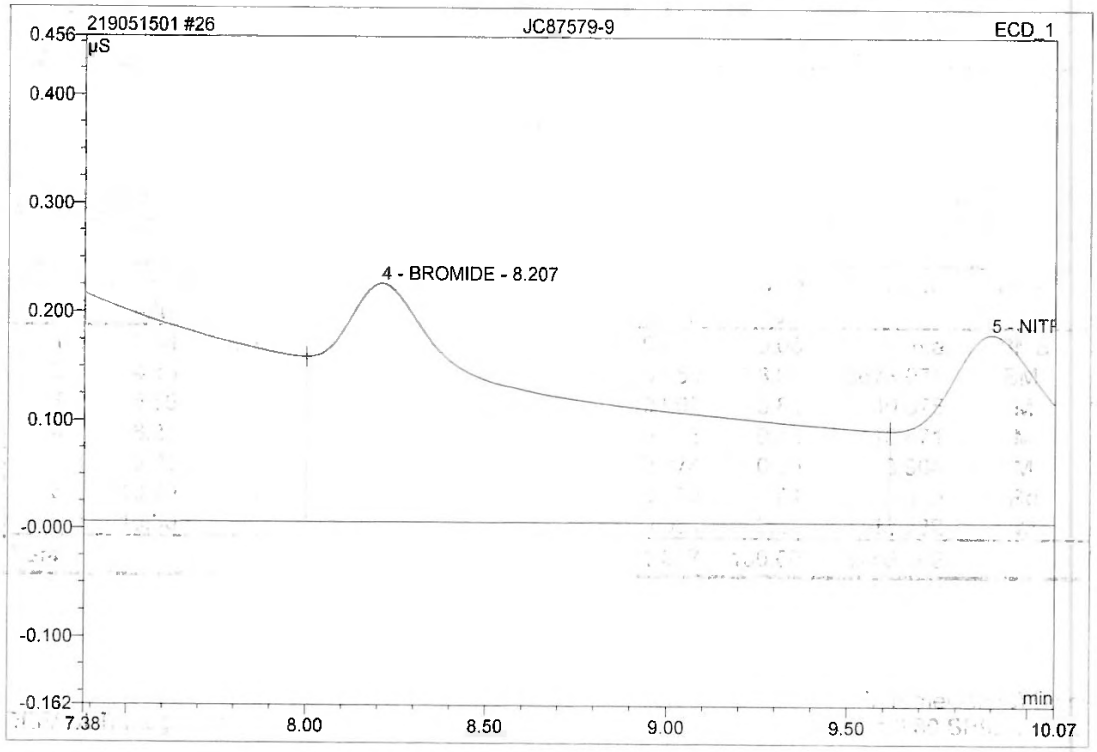


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.34	n.a.	0.248	0.072	0.06	n.a.	BMB
2	4.59	CHLORIDE	601.021	109.859	98.65	3673.071	BM
3	6.56	SULFATE	2.471	0.907	0.81	40.675	M
4	8.21	BROMIDE	0.220	0.203	0.18	13.671	M
5	9.90	NITRITE	0.175	0.274	0.25	3.904	M
6	10.79	n.a.	0.030	0.009	0.01	n.a.	Rd
7	16.60	PHOSPHATE	0.026	0.034	0.03	13.822	MB
Total:			604.191	111.357	100.00	3745.142	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

26 JC87579-9

Sample Name:	**JC87579-9**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 16:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.34	n.a.	0.248	0.072	0.06	n.a.	BMB
2	4.59	CHLORIDE	601.021	109.859	98.65	3673.071	BM
3	6.56	SULFATE	2.471	0.907	0.81	40.675	M
4	8.21	BROMIDE	0.220	0.203	0.18	13.671	M
5	9.90	NITRITE	0.175	0.274	0.25	3.904	M
6	10.79	n.a.	0.030	0.009	0.01	n.a.	Rd
7	16.60	PHOSPHATE	0.026	0.034	0.03	13.822	MB
Total:			604.191	111.357	100.00	3745.142	

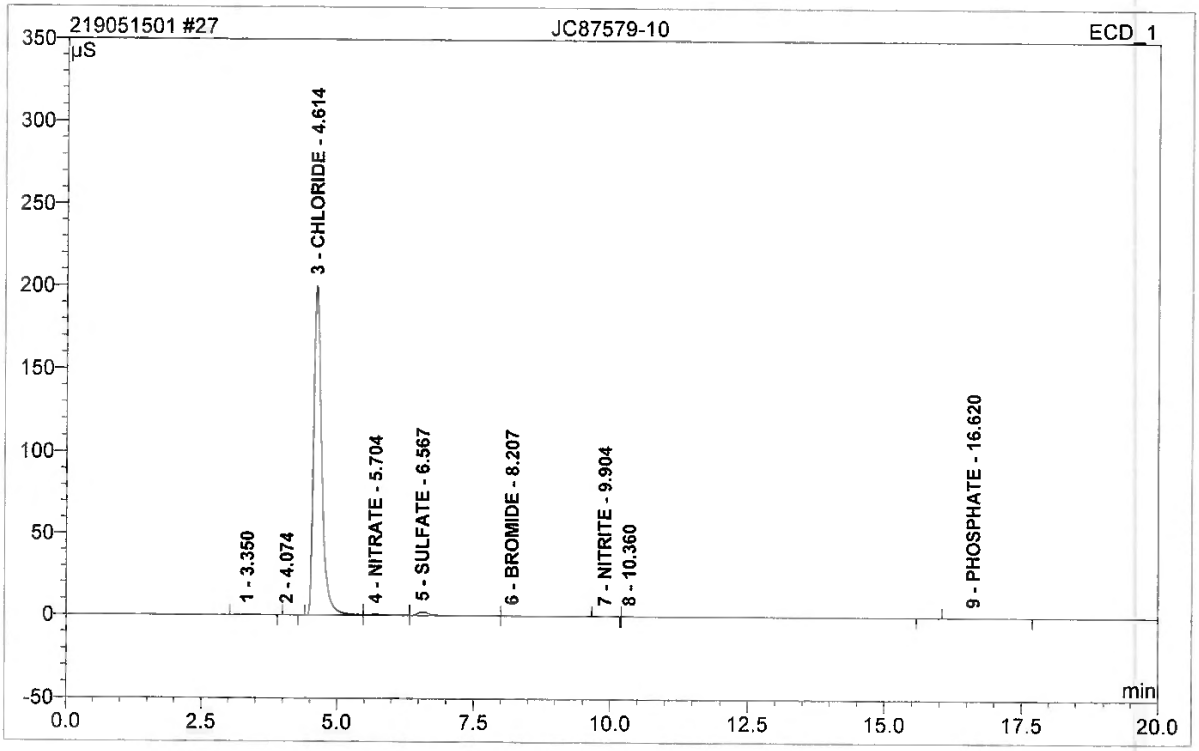
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

27 JC87579-10

Sample Name:	**JC87579-10**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 16:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



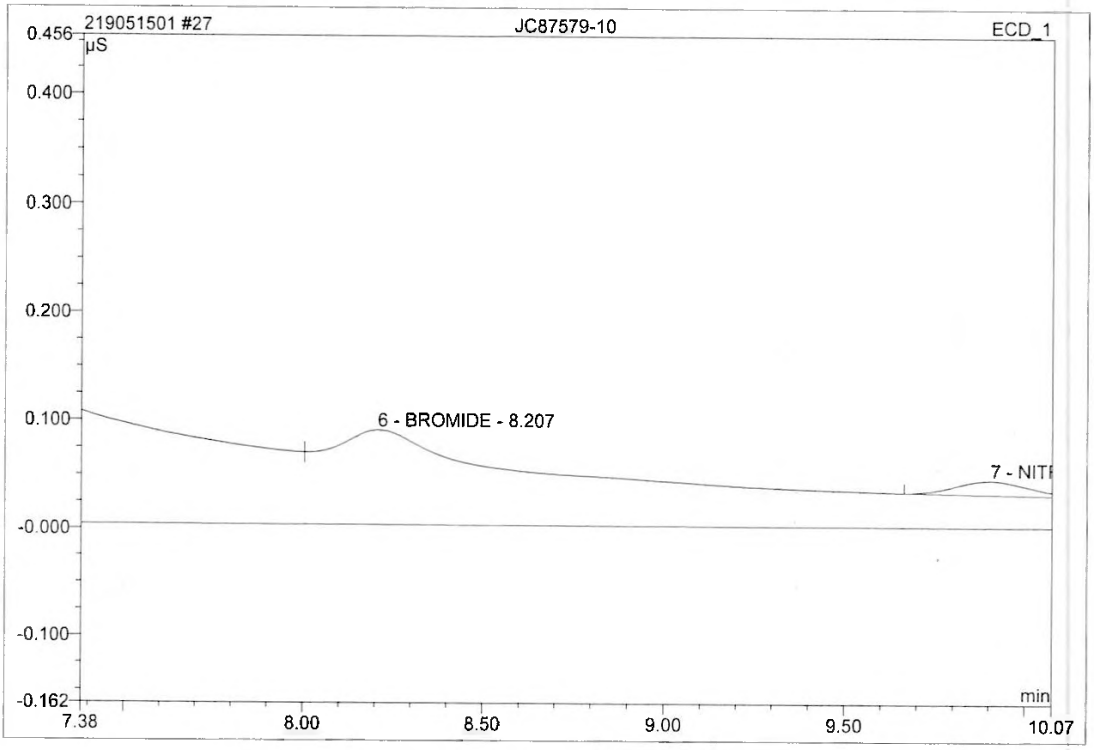
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.35	n.a.	0.531	0.136	0.38	n.a.	BMB
2	4.07	n.a.	0.015	0.002	0.01	n.a.	BMB
3	4.61	CHLORIDE	200.302	34.749	96.17	1161.815	BM
4	5.70	NITRATE	0.701	0.399	1.10	6.289	M
5	6.57	SULFATE	2.255	0.679	1.88	30.458	M
6	8.21	BROMIDE	0.087	0.100	0.28	6.708	M
7	9.90	NITRITE	0.013	0.003	0.01	0.045	Rd
8	10.36	n.a.	0.030	0.053	0.15	n.a.	MB
9	16.62	PHOSPHATE	0.020	0.011	0.03	4.540	BMB
Total:			203.956	36.133	100.00	1209.855	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

27 JC87579-10

Sample Name:	**JC87579-10**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 16:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.35	n.a.	0.531	0.136	0.38	n.a.	BMB
2	4.07	n.a.	0.015	0.002	0.01	n.a.	BMB
3	4.61	CHLORIDE	200.302	34.749	96.17	1161.815	BM
4	5.70	NITRATE	0.701	0.399	1.10	6.289	M
5	6.57	SULFATE	2.255	0.679	1.88	30.458	M
6	8.21	BROMIDE	0.087	0.100	0.28	6.708	M
7	9.90	NITRITE	0.013	0.003	0.01	0.045	Rd
8	10.36	n.a.	0.030	0.053	0.15	n.a.	MB
9	16.62	PHOSPHATE	0.020	0.011	0.03	4.540	BMB
Total:			203.956	36.133	100.00	1209.855	

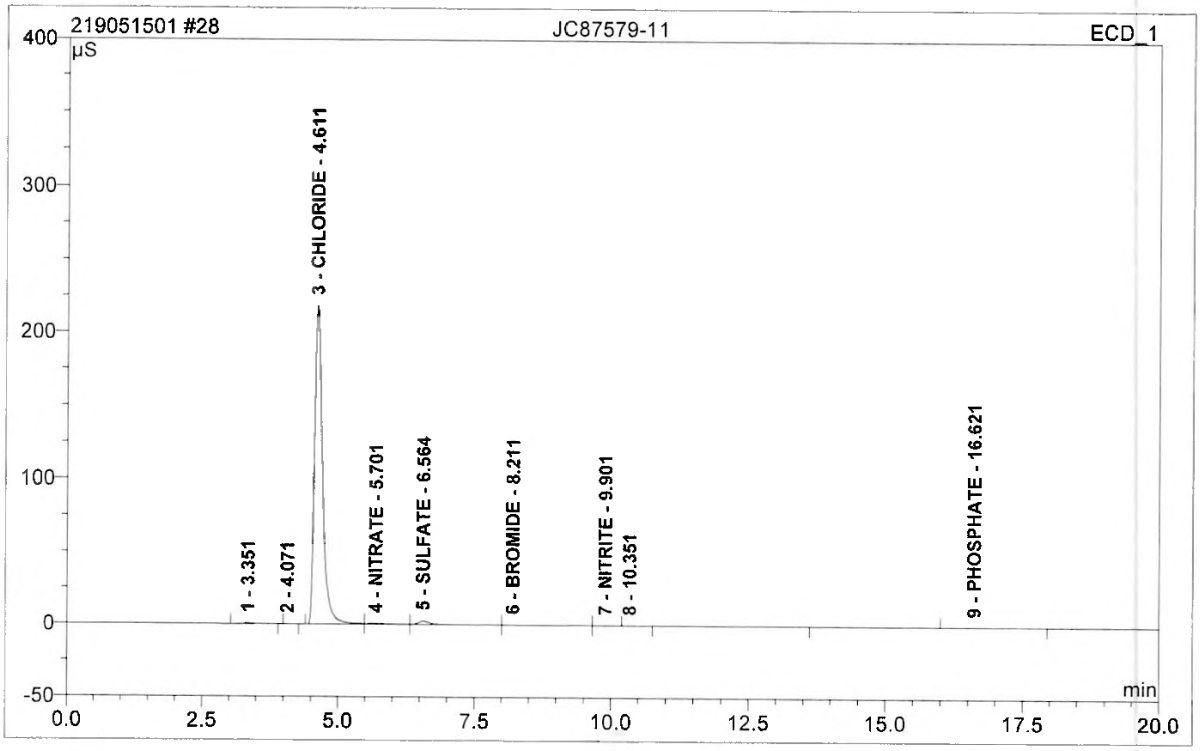
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

28 JC87579-11

Sample Name:	**JC87579-11**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 17:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.35	n.a.	0.568	0.147	0.37	n.a.	BMB
2	4.07	n.a.	0.017	0.002	0.01	n.a.	BMB
3	4.61	CHLORIDE	218.232	37.946	96.44	1268.704	BM
4	5.70	NITRATE	0.681	0.387	0.98	6.110	M
5	6.56	SULFATE	2.496	0.734	1.86	32.912	M
6	8.21	BROMIDE	0.086	0.075	0.19	5.059	M
7	9.90	NITRITE	0.036	0.042	0.11	0.593	MB
8	10.35	n.a.	0.003	0.001	0.00	n.a.	Rd
9	16.62	PHOSPHATE	0.023	0.013	0.03	5.162	BMB
Total:			222.142	39.347	100.00	1318.539	

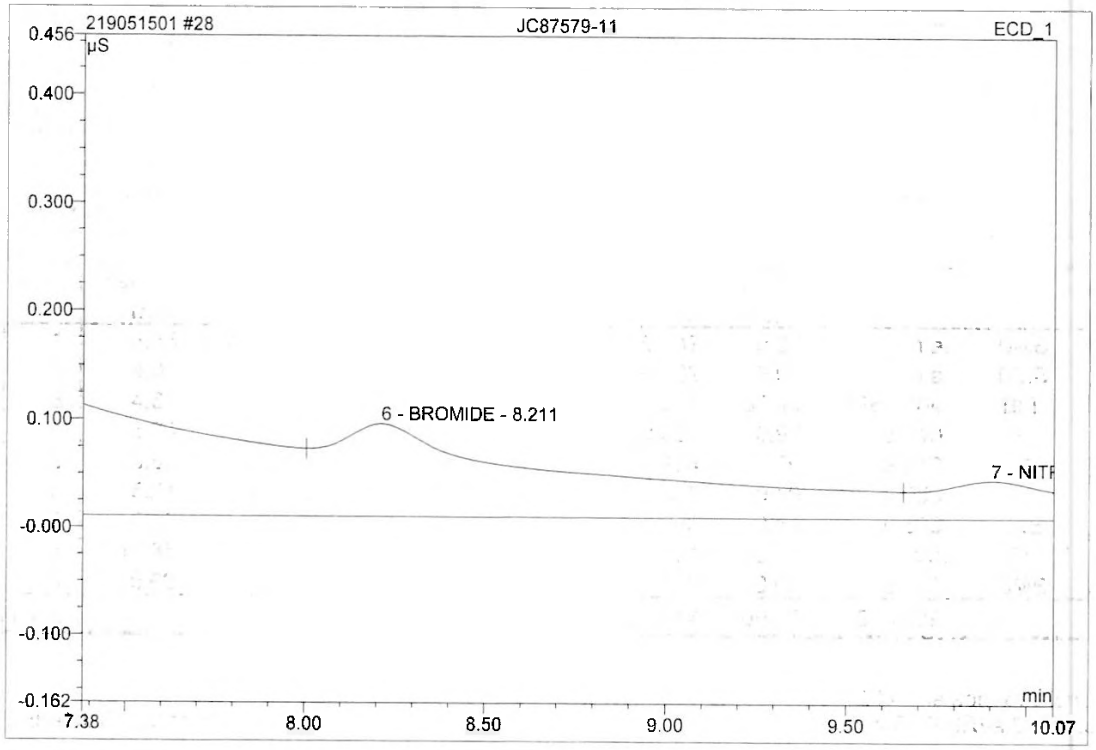
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

28 JC87579-11

Sample Name:	**JC87579-11**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 17:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.35	n.a.	0.568	0.147	0.37	n.a.	BMB
2	4.07	n.a.	0.017	0.002	0.01	n.a.	BMB
3	4.61	CHLORIDE	218.232	37.946	96.44	1268.704	BM
4	5.70	NITRATE	0.681	0.387	0.98	6.110	M
5	6.56	SULFATE	2.496	0.734	1.86	32.912	M
6	8.21	BROMIDE	0.086	0.075	0.19	5.059	M
7	9.90	NITRITE	0.036	0.042	0.11	0.593	MB
8	10.35	n.a.	0.003	0.001	0.00	n.a.	Rd
9	16.62	PHOSPHATE	0.023	0.013	0.03	5.162	BMB
Total:			222.142	39.347	100.00	1318.539	

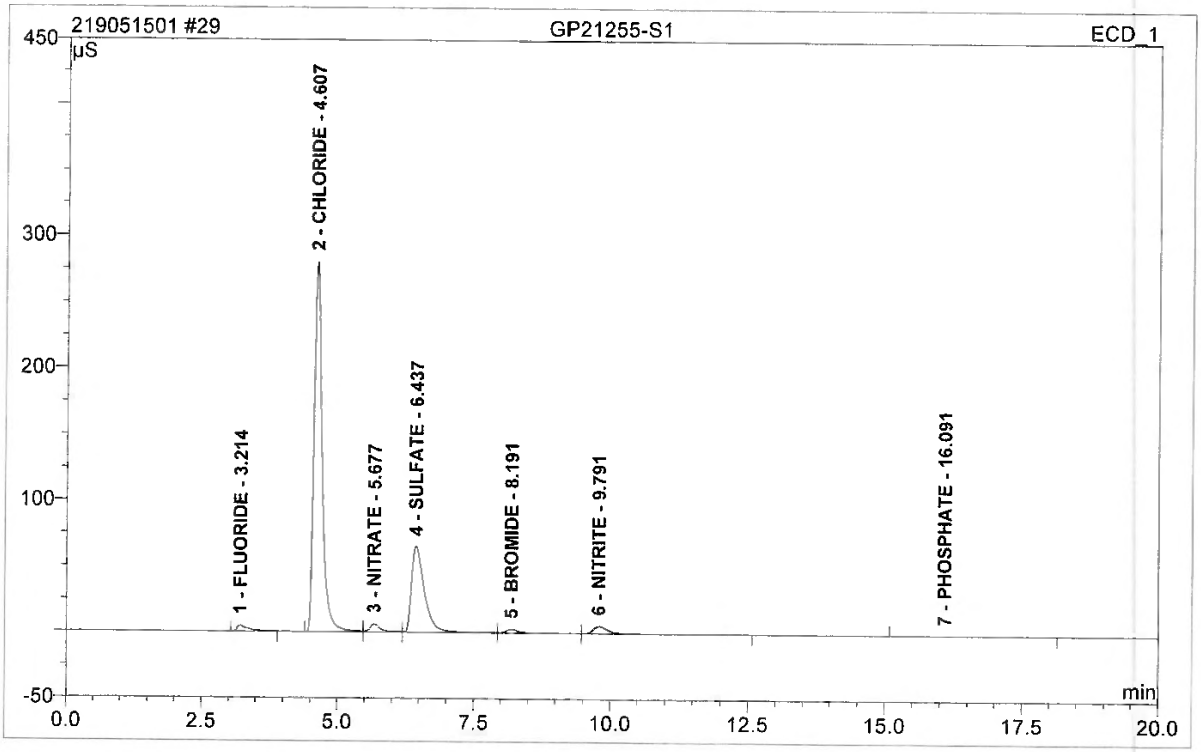
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

29 GP21255-S1

JC87644-1

Sample Name:	**GP21255-S1**	*Injection Volume:*	**20.0**
Vial Number:	**20**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 17:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



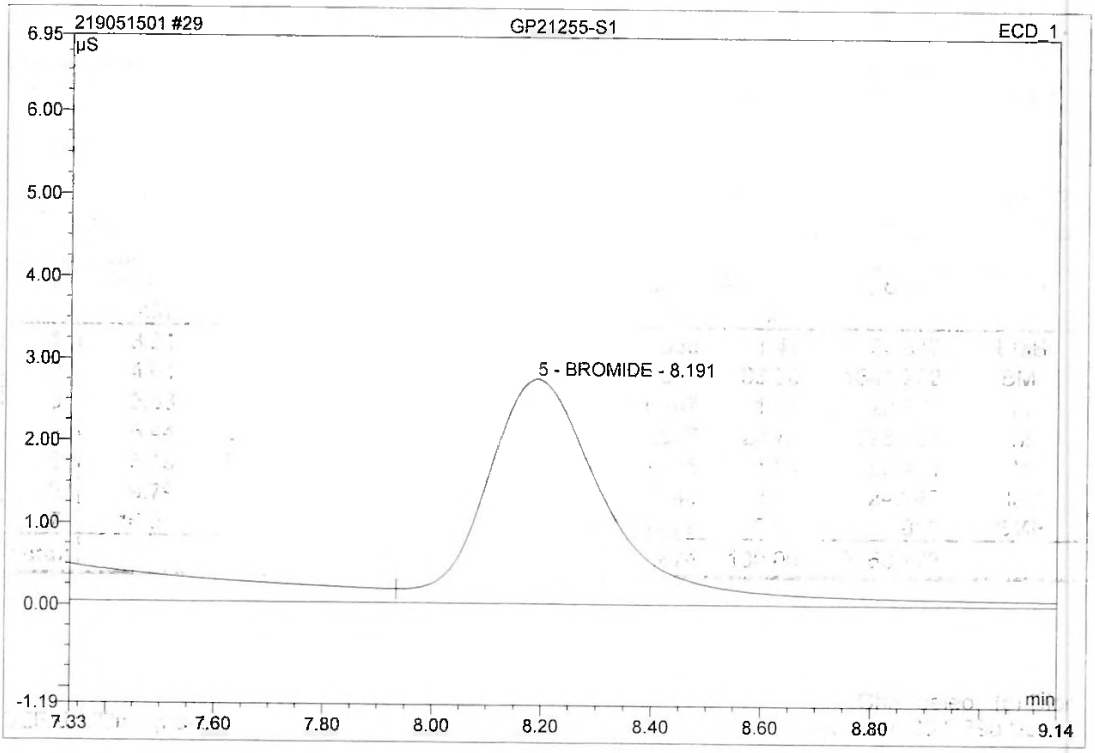
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	4.607	1.068	1.49	22.677	BMB
2	4.61	CHLORIDE	280.350	49.088	68.30	1641.232	BM
3	5.68	NITRATE	6.136	1.407	1.96	22.192	M
4	6.44	SULFATE	65.218	17.807	24.78	798.761	M
5	8.19	BROMIDE	2.737	0.745	1.04	50.111	M
6	9.79	NITRITE	5.628	1.749	2.43	24.947	MB
7	16.09	PHOSPHATE	0.006	0.009	0.01	3.858	BMB
Total:			364.681	71.874	100.00	2563.778	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

29 GP21255-S1

JC87644-1

Sample Name:	**GP21255-S1**	*Injection Volume:*	**20.0**
Vial Number:	**20**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 17:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



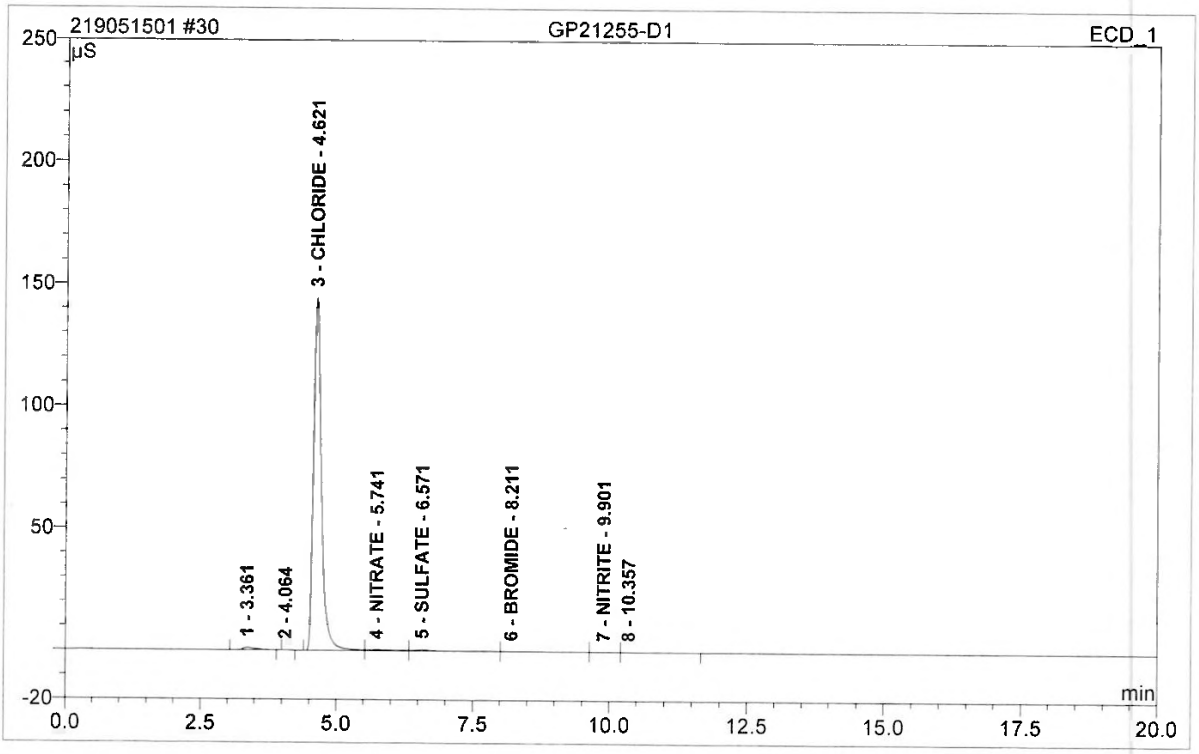
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	4.607	1.068	1.49	22.677	BMB
2	4.61	CHLORIDE	280.350	49.088	68.30	1641.232	BM
3	5.68	NITRATE	6.136	1.407	1.96	22.192	M
4	6.44	SULFATE	65.218	17.807	24.78	798.761	M
5	8.19	BROMIDE	2.737	0.745	1.04	50.111	M
6	9.79	NITRITE	5.628	1.749	2.43	24.947	MB
7	16.09	PHOSPHATE	0.006	0.009	0.01	3.858	BMB
Total:			364.681	71.874	100.00	2563.778	

DEFAULT/Integration

30 GP21255-D1

JC87644-1

Sample Name:	**GP21255-D1**	*Injection Volume:*	**20.0**
Vial Number:	**21**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 18:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.36	n.a.	1.010	0.257	1.02	n.a.	BMB
2	4.06	n.a.	0.015	0.002	0.01	n.a.	BMB
3	4.62	CHLORIDE	144.409	24.538	97.03	820.409	BM
4	5.74	NITRATE	0.380	0.223	0.88	3.512	M
5	6.57	SULFATE	0.504	0.216	0.86	9.701	M
6	8.21	BROMIDE	0.047	0.037	0.14	2.462	M
7	9.90	NITRITE	0.026	0.010	0.04	0.143	M
8	10.36	n.a.	0.012	0.007	0.03	n.a.	MB
Total:			146.402	25.289	100.00	836.227	

anions/Integration

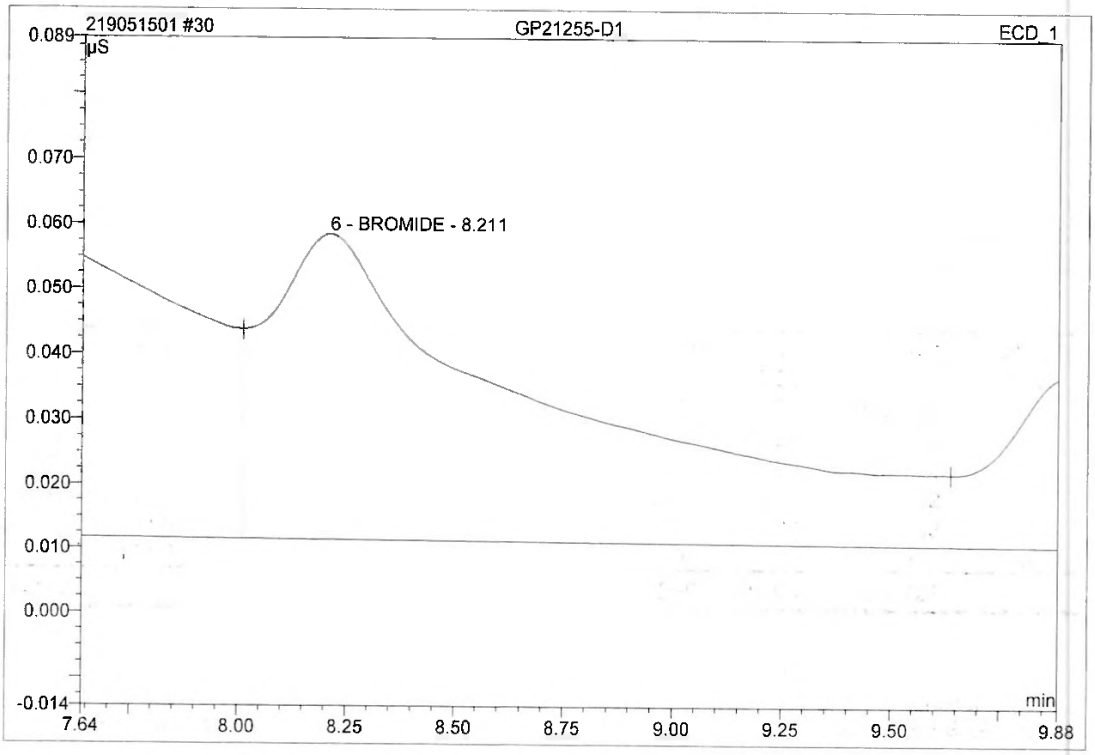
Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

30 GP21255-D1

JC87644-1

Sample Name:	**GP21255-D1**	*Injection Volume:*	**20.0**
Vial Number:	**21**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 18:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



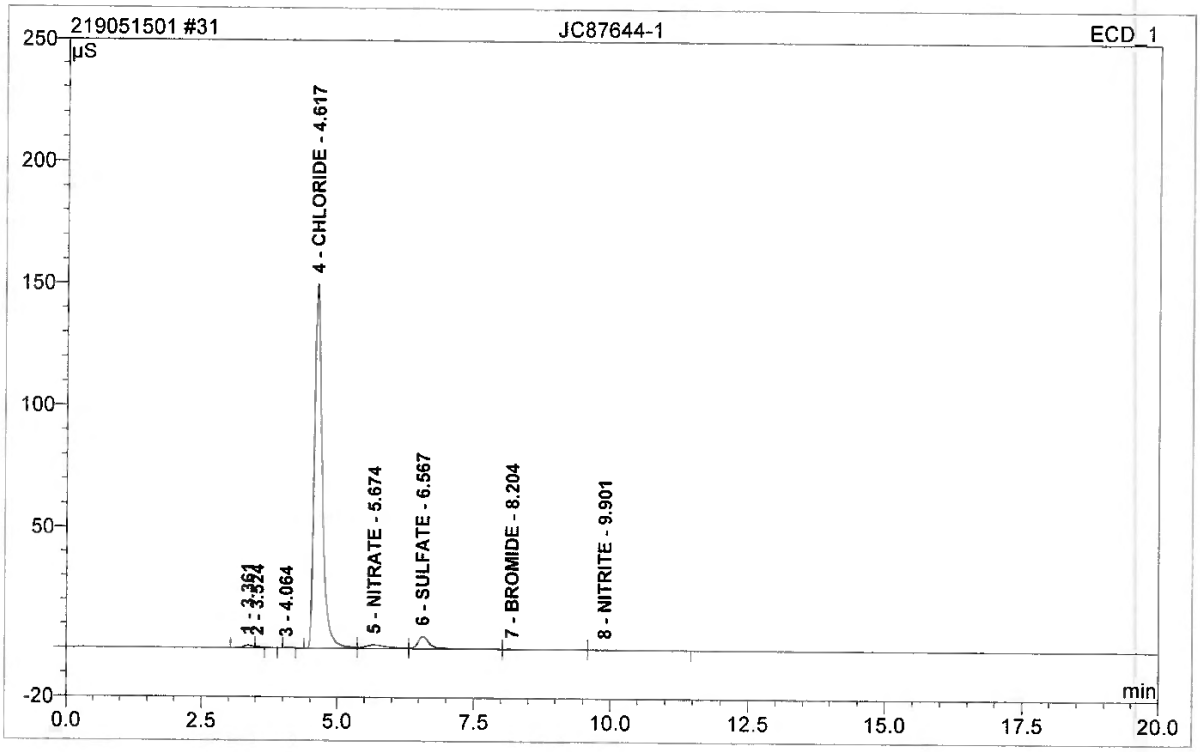
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.36	n.a.	1.010	0.257	1.02	n.a.	BMB
2	4.06	n.a.	0.015	0.002	0.01	n.a.	BMB
3	4.62	CHLORIDE	144.409	24.538	97.03	820.409	BM
4	5.74	NITRATE	0.380	0.223	0.88	3.512	M
5	6.57	SULFATE	0.504	0.216	0.86	9.701	M
6	8.21	BROMIDE	0.047	0.037	0.14	2.462	M
7	9.90	NITRITE	0.026	0.010	0.04	0.143	M
8	10.36	n.a.	0.012	0.007	0.03	n.a.	MB
Total:			146.402	25.289	100.00	836.227	

DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

31 JC87644-1

Sample Name:	**JC87644-1**	*Injection Volume:*	**20.0**
Vial Number:	**22**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 18:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.36	n.a.	0.994	0.257	0.93	n.a.	BMB
2	3.52	n.a.	0.058	0.007	0.03	n.a.	Rd
3	4.06	n.a.	0.014	0.002	0.01	n.a.	BMB
4	4.62	CHLORIDE	150.034	25.334	91.27	847.032	BM
5	5.67	NITRATE	1.538	0.712	2.56	11.221	M
6	6.57	SULFATE	5.089	1.345	4.84	60.323	M
7	8.20	BROMIDE	0.077	0.058	0.21	3.873	M
8	9.90	NITRITE	0.114	0.044	0.16	0.630	MB
Total:			157.918	27.758	100.00	923.079	

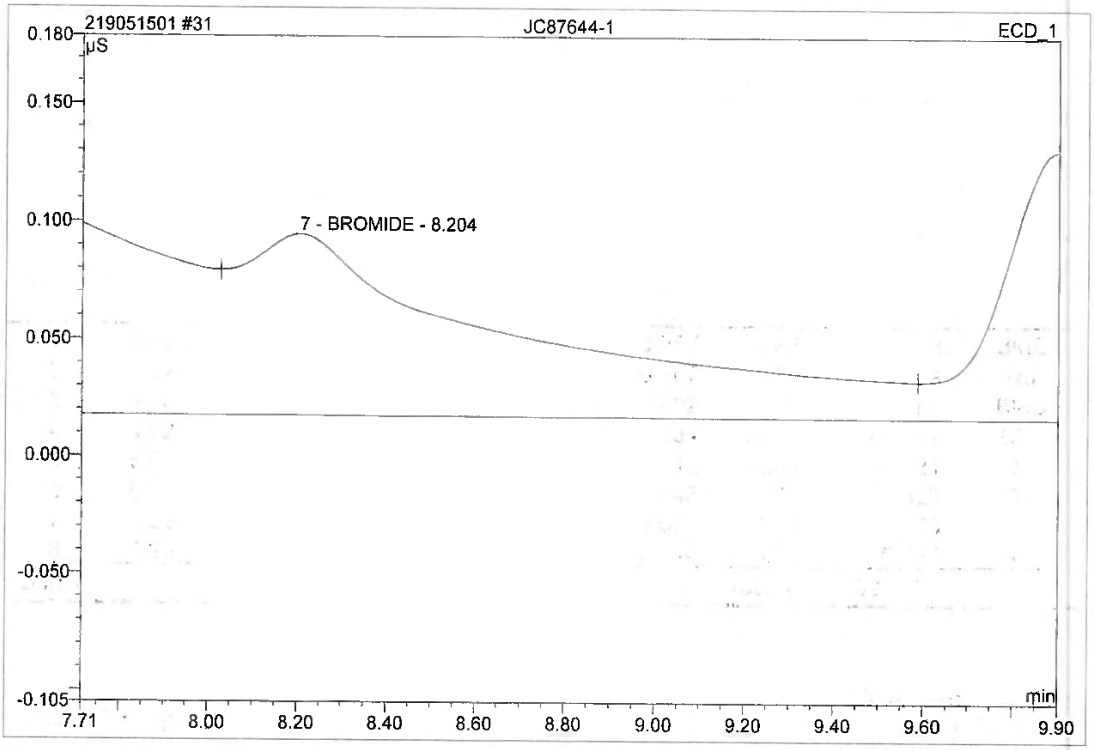
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

31 JC87644-1

Sample Name:	**JC87644-1**	*Injection Volume:*	**20.0**
Vial Number:	**22**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 18:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.36	n.a.	0.994	0.257	0.93	n.a.	BMB
2	3.52	n.a.	0.058	0.007	0.03	n.a.	Rd
3	4.06	n.a.	0.014	0.002	0.01	n.a.	BMB
4	4.62	CHLORIDE	150.034	25.334	91.27	847.032	BM
5	5.67	NITRATE	1.538	0.712	2.56	11.221	M
6	6.57	SULFATE	5.089	1.345	4.84	60.323	M
7	8.20	BROMIDE	0.077	0.058	0.21	3.873	M
8	9.90	NITRITE	0.114	0.044	0.16	0.630	MB
Total:			157.918	27.758	100.00	923.079	

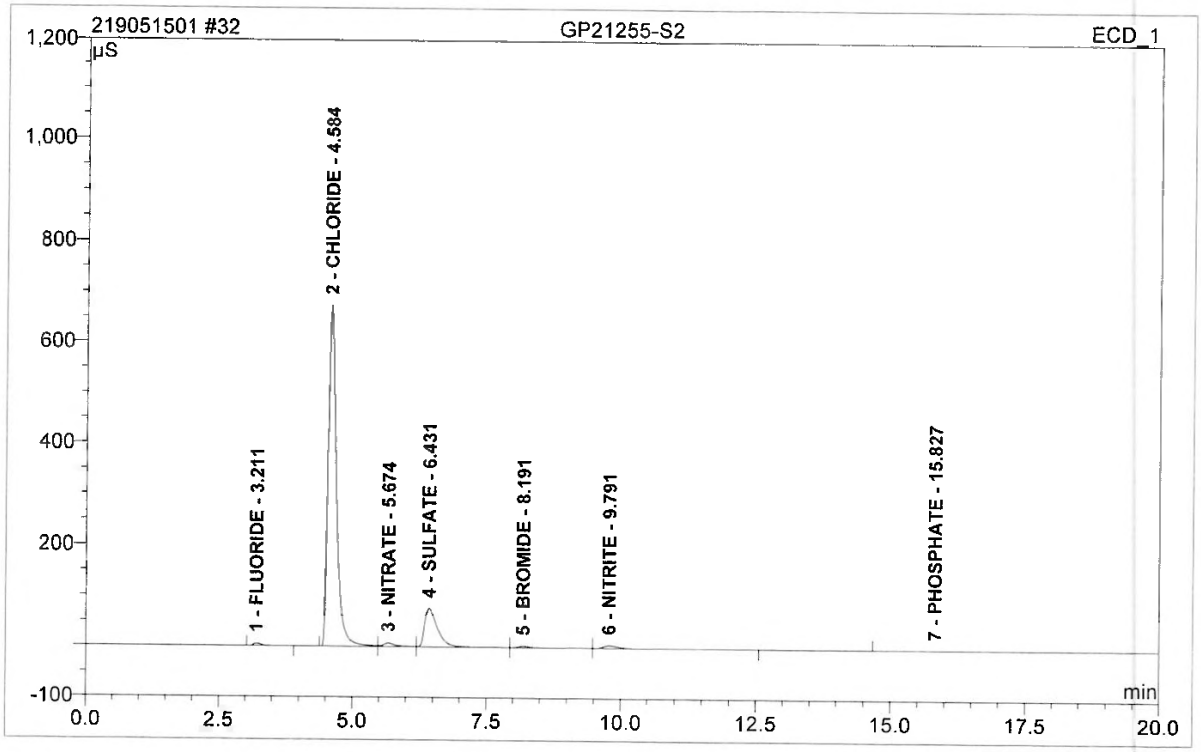
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

32 GP21255-S2

JC87644-2

Sample Name:	**GP21255-S2**	*Injection Volume:*	**20.0**
Vial Number:	**23**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 18:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	4.816	0.856	0.57	18.184	BMB
2	4.58	CHLORIDE	673.202	121.608	81.66	4065.886	BM
3	5.67	NITRATE	7.144	1.935	1.30	30.509	M
4	6.43	SULFATE	75.581	21.330	14.32	956.779	M
5	8.19	BROMIDE	2.925	0.889	0.60	59.740	M
6	9.79	NITRITE	5.759	1.833	1.23	26.152	MB
7	15.83	PHOSPHATE	0.186	0.464	0.31	189.209	BMB
Total:			769.613	148.915	100.00	5346.457	

anions/Integration

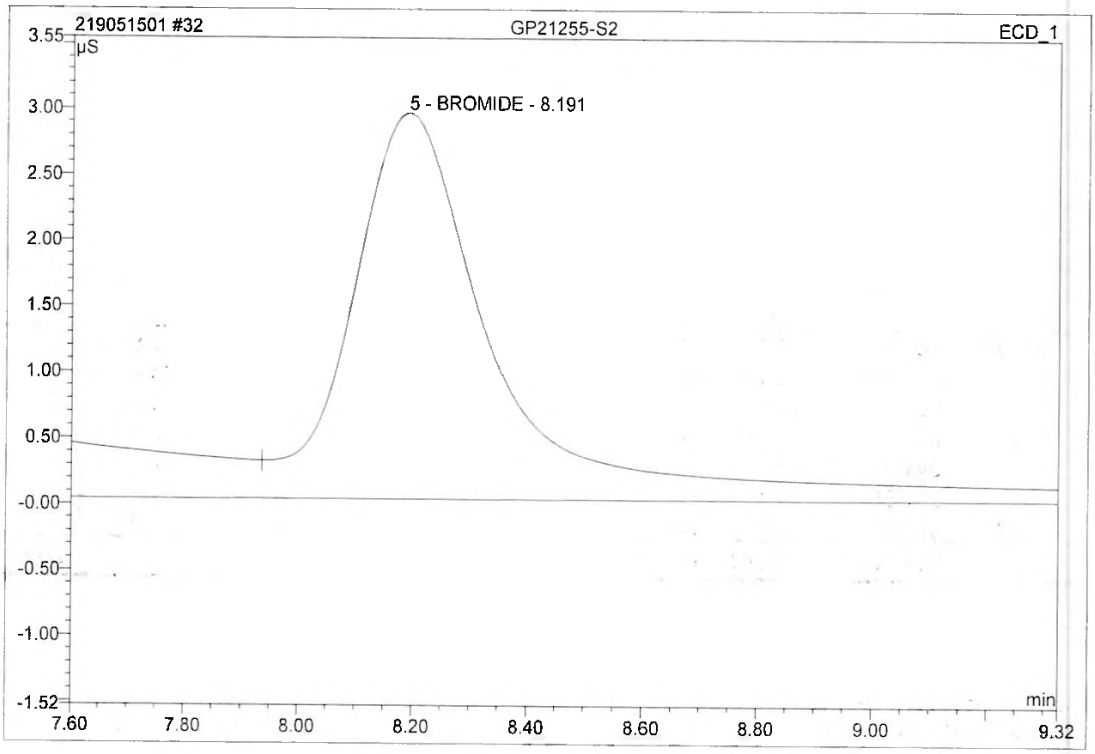
Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

32 GP21255-S2

JC87644-2

Sample Name:	**GP21255-S2**	*Injection Volume:*	**20.0**
Vial Number:	**23**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 18:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	4.816	0.856	0.57	18.184	BMB
2	4.58	CHLORIDE	673.202	121.608	81.66	4065.886	BM
3	5.67	NITRATE	7.144	1.935	1.30	30.509	M
4	6.43	SULFATE	75.581	21.330	14.32	956.779	M
5	8.19	BROMIDE	2.925	0.889	0.60	59.740	M
6	9.79	NITRITE	5.759	1.833	1.23	26.152	MB
7	15.83	PHOSPHATE	0.186	0.464	0.31	189.209	BMB
Total:			769.613	148.915	100.00	5346.457	

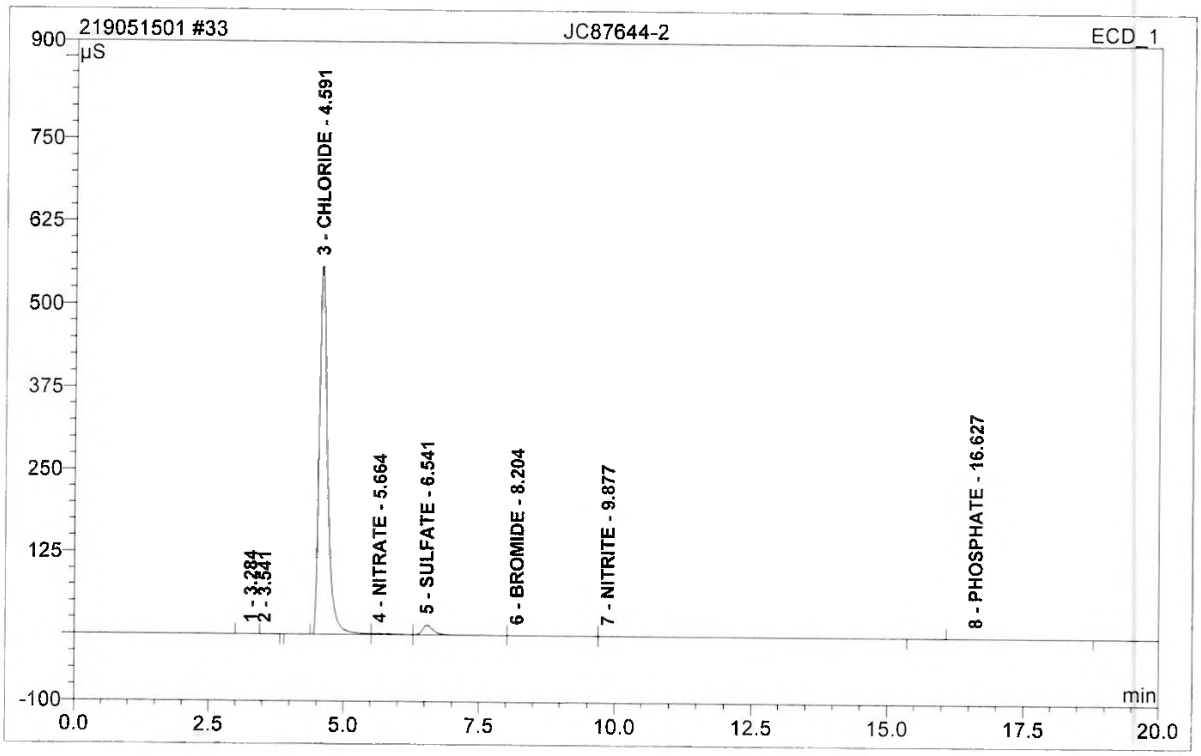
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

33 JC87644-2

Sample Name:	**JC87644-2**	*Injection Volume:*	**20.0**
Vial Number:	**24**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 19:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.039	0.015	0.01	n.a.	BMB
2	3.54	n.a.	0.005	0.001	0.00	n.a.	Rd
3	4.59	CHLORIDE	556.770	100.370	95.22	3355.826	BM
4	5.66	NITRATE	1.551	0.817	0.78	12.887	M
5	6.54	SULFATE	14.512	3.810	3.61	170.903	M
6	8.20	BROMIDE	0.214	0.210	0.20	14.121	M
7	9.88	NITRITE	0.086	0.174	0.17	2.483	MB
8	16.63	PHOSPHATE	0.002	0.007	0.01	2.869	BMB
Total:			573.180	105.404	100.00	3559.089	

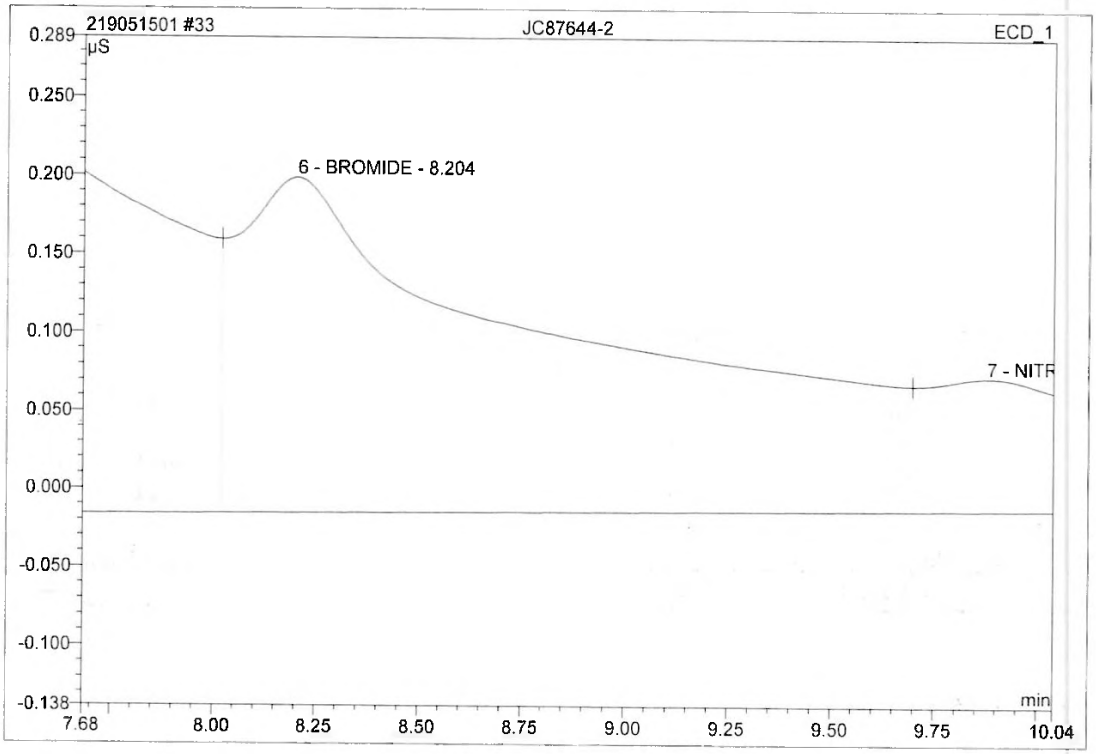
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

33 JC87644-2

Sample Name:	**JC87644-2**	*Injection Volume:*	**20.0**
Vial Number:	**24**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 19:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



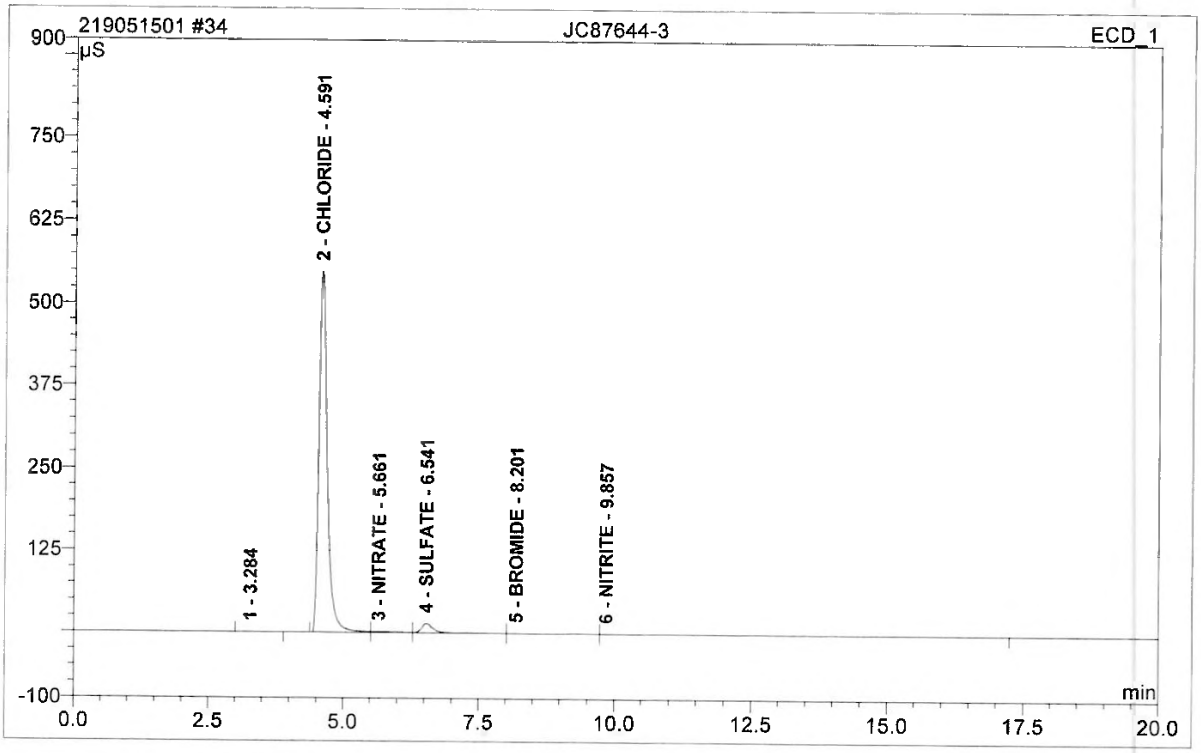
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.039	0.015	0.01	n.a.	BMB
2	3.54	n.a.	0.005	0.001	0.00	n.a.	Rd
3	4.59	CHLORIDE	556.770	100.370	95.22	3355.826	BM
4	5.66	NITRATE	1.551	0.817	0.78	12.887	M
5	6.54	SULFATE	14.512	3.810	3.61	170.903	M
6	8.20	BROMIDE	0.214	0.210	0.20	14.121	M
7	9.88	NITRITE	0.086	0.174	0.17	2.483	MB
8	16.63	PHOSPHATE	0.002	0.007	0.01	2.869	BMB
Total:			573.180	105.404	100.00	3559.089	

DEFAULT/Integration

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

34 JC87644-3

Sample Name:	**JC87644-3**	*Injection Volume:*	**20.0**
Vial Number:	**25**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 19:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



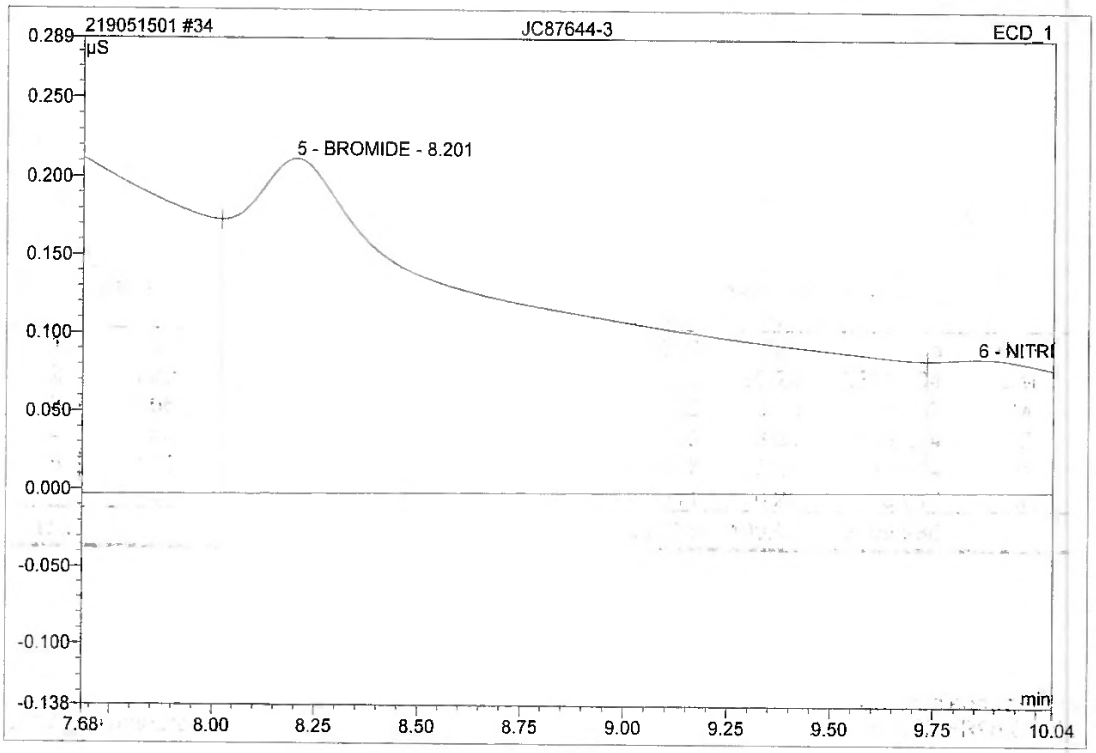
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.052	0.016	0.02	n.a.	BMB
2	4.59	CHLORIDE	548.380	98.752	95.20	3301.704	BM
3	5.66	NITRATE	1.504	0.790	0.76	12.452	M
4	6.54	SULFATE	14.249	3.750	3.61	168.204	M
5	8.20	BROMIDE	0.214	0.217	0.21	14.614	M
6	9.86	NITRITE	0.085	0.211	0.20	3.012	MB
Total:			564.484	103.736	100.00	3499.986	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

34 JC87644-3

Sample Name:	**JC87644-3**	*Injection Volume:*	**20.0**
Vial Number:	**25**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 19:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.052	0.016	0.02	n.a.	BMB
2	4.59	CHLORIDE	548.380	98.752	95.20	3301.704	BM
3	5.66	NITRATE	1.504	0.790	0.76	12.452	M
4	6.54	SULFATE	14.249	3.750	3.61	168.204	M
5	8.20	BROMIDE	0.214	0.217	0.21	14.614	M
6	9.86	NITRITE	0.085	0.211	0.20	3.012	MB
Total:			564.484	103.736	100.00	3499.986	

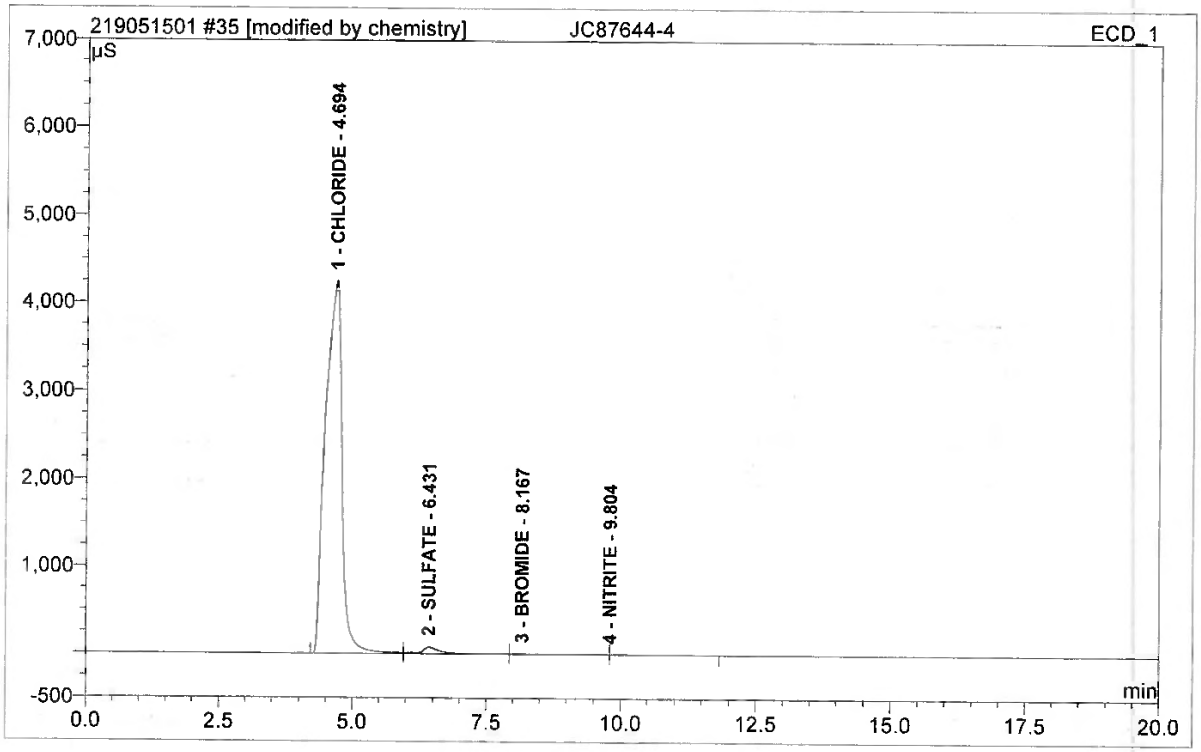
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

35 JC87644-4

Sample Name:	**JC87644-4**	*Injection Volume:*	**20.0**
Vial Number:	**26**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 20:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	CHLORIDE	4254.234	1530.085	97.88	51157.471	BM
2	6.43	SULFATE	74.085	29.778	1.90	1335.725	M
3	8.17	BROMIDE	3.708	2.691	0.17	180.916	M *
4	9.80	NITRITE	0.655	0.613	0.04	8.748	MB*
Total:			4332.683	1563.168	100.00	52682.860	

pH
NV 5/16/19

anions/Integration

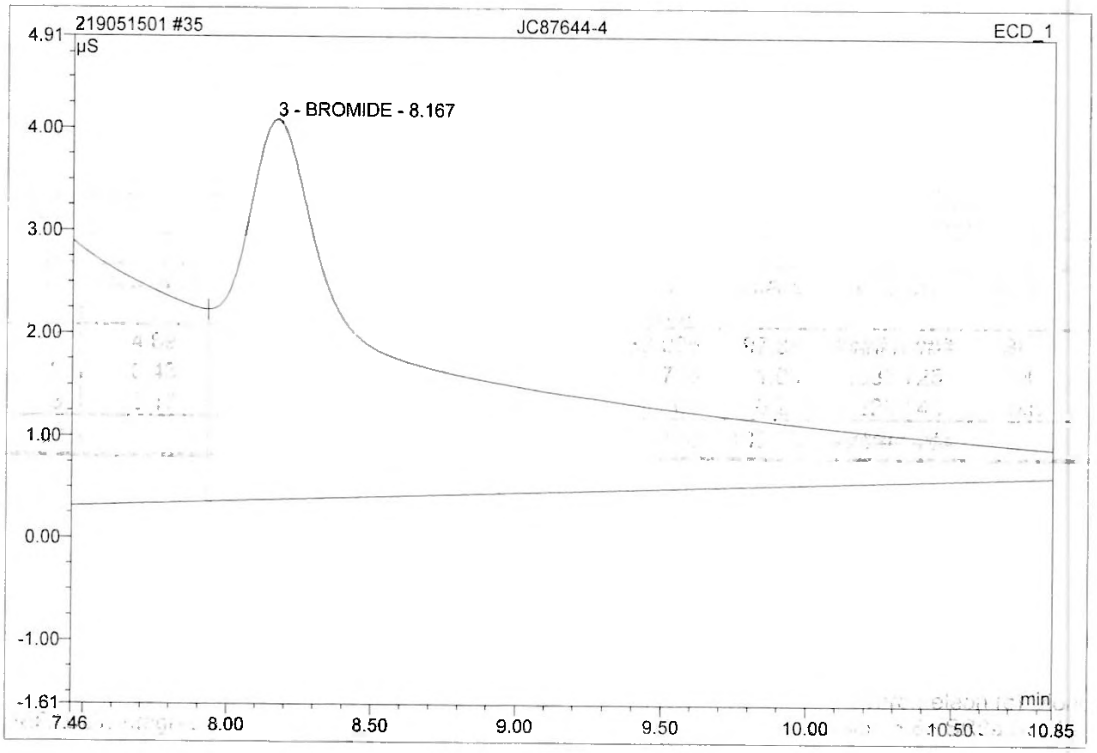
Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

5/16/2019 10:29 AM

35 JC87644-4

Sample Name:	**JC87644-4**	*Injection Volume:*	**20.0**
Vial Number:	**26**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 20:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	CHLORIDE	4254.234	1530.085	97.88	#########	BM
2	6.43	SULFATE	74.085	29.778	1.90	1335.725	M
3	8.17	BROMIDE	3.708	3.305	0.21	222.146	MB
Total:			4332.027	1563.168	100.00	#########	

DEFAULT/Integration

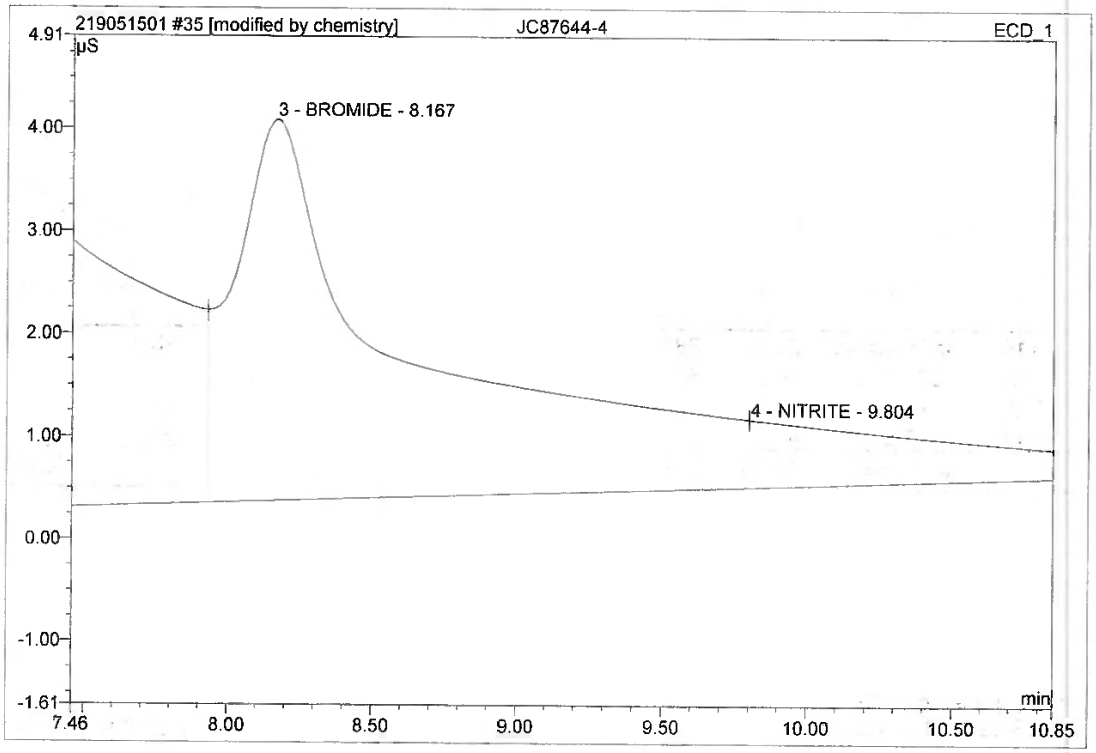
Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

5/16/2019 10:29 AM

35 JC87644-4

Sample Name:	**JC87644-4**	*Injection Volume:*	**20.0**
Vial Number:	**26**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 20:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



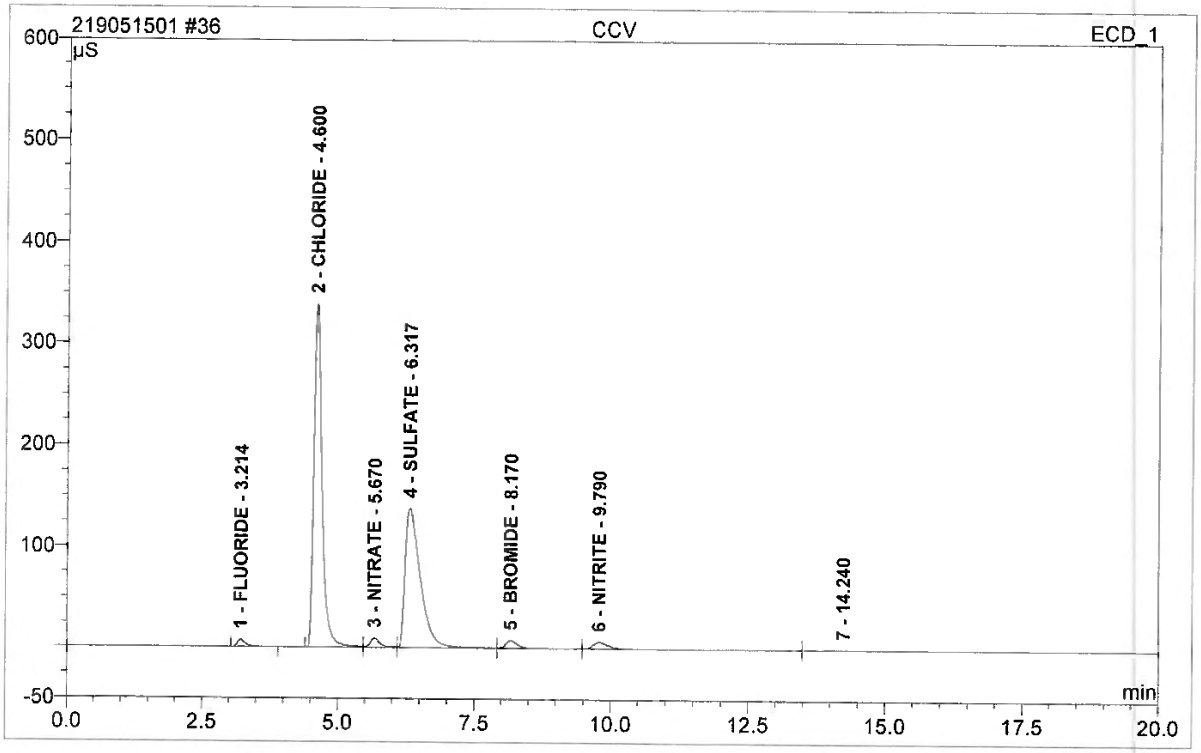
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	CHLORIDE	4254.234	1530.085	97.88	#########	BM
2	6.43	SULFATE	74.085	29.778	1.90	1335.725	M
3	8.17	BROMIDE	3.708	2.691	0.17	180.916	M *
4	9.80	NITRITE	0.655	0.613	0.04	8.748	MB*
Total:			4332.683	1563.168	100.00	#########	

DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

36 CCV

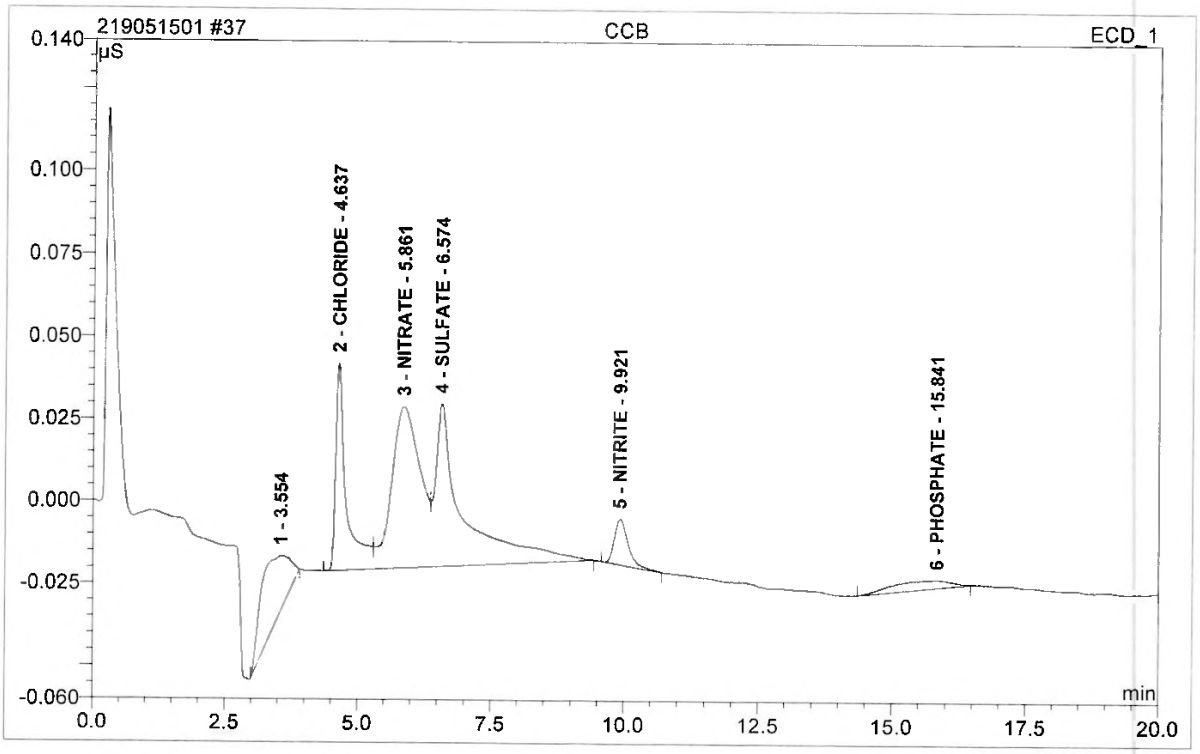
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**27**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 20:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	7.235	1.286	1.13	2.731	BMB
2	4.60	CHLORIDE	338.915	59.724	52.70	199.685	BM
3	5.67	NITRATE	9.345	2.054	1.81	3.240	M
4	6.32	SULFATE	138.043	44.808	39.54	200.992	M
5	8.17	BROMIDE	7.964	2.198	1.94	14.773	M
6	9.79	NITRITE	7.021	2.427	2.14	3.462	M
7	14.24	n.a.	0.448	0.821	0.72	n.a.	MB
Total:			508.970	113.319	100.00	424.883	

37 CCB

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**28**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 20:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



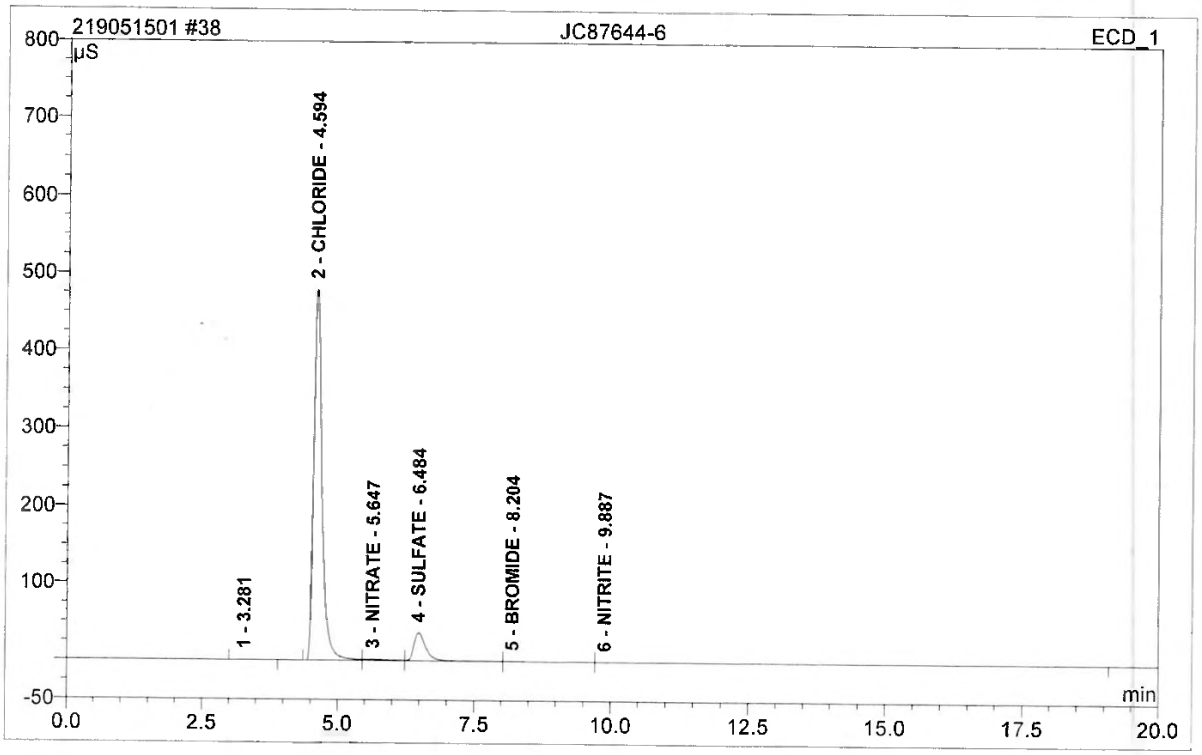
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.55	n.a.	0.017	0.012	12.76	n.a.	BMB
2	4.64	CHLORIDE	0.063	0.015	15.49	0.049	BM
3	5.86	NITRATE	0.049	0.030	31.98	0.048	M
4	6.57	SULFATE	0.050	0.030	31.77	0.136	MB
5	9.92	NITRITE	0.014	0.004	4.40	0.006	BMB
6	15.84	PHOSPHATE	0.002	0.003	3.59	0.140	BMB
Total:			0.195	0.095	100.00	0.379	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

38 JC87644-6

Sample Name:	**JC87644-6**	*Injection Volume:*	**20.0**
Vial Number:	**29**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 21:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

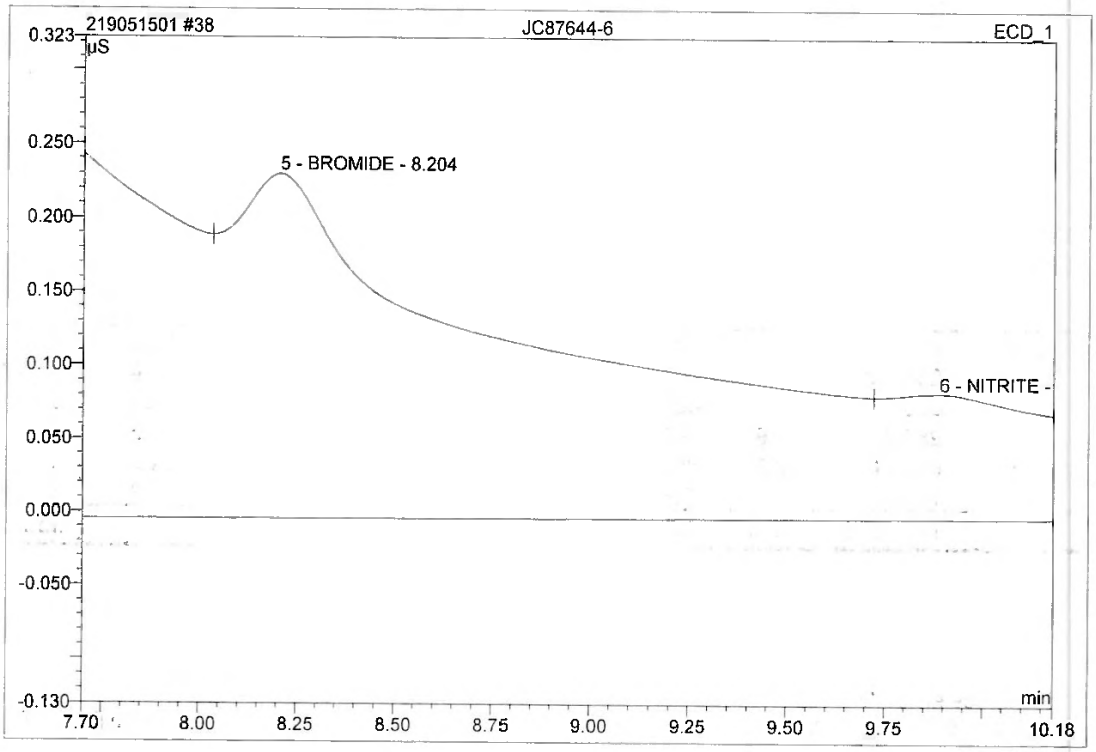


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.036	0.014	0.02	n.a.	BMB
2	4.59	CHLORIDE	478.878	85.677	88.87	2864.562	BM
3	5.65	NITRATE	1.652	0.858	0.89	13.530	M
4	6.48	SULFATE	36.410	9.381	9.73	420.789	M
5	8.20	BROMIDE	0.234	0.222	0.23	14.949	M
6	9.89	NITRITE	0.086	0.257	0.27	3.661	MB
Total:			517.297	96.409	100.00	3317.491	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

38 JC87644-6

Sample Name:	**JC87644-6**	*Injection Volume:*	**20.0**
Vial Number:	**29**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 21:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.036	0.014	0.02	n.a.	BMB
2	4.59	CHLORIDE	478.878	85.677	88.87	2864.562	BM
3	5.65	NITRATE	1.652	0.858	0.89	13.530	M
4	6.48	SULFATE	36.410	9.381	9.73	420.789	M
5	8.20	BROMIDE	0.234	0.222	0.23	14.949	M
6	9.89	NITRITE	0.086	0.257	0.27	3.661	MB
Total:			517.297	96.409	100.00	3317.491	

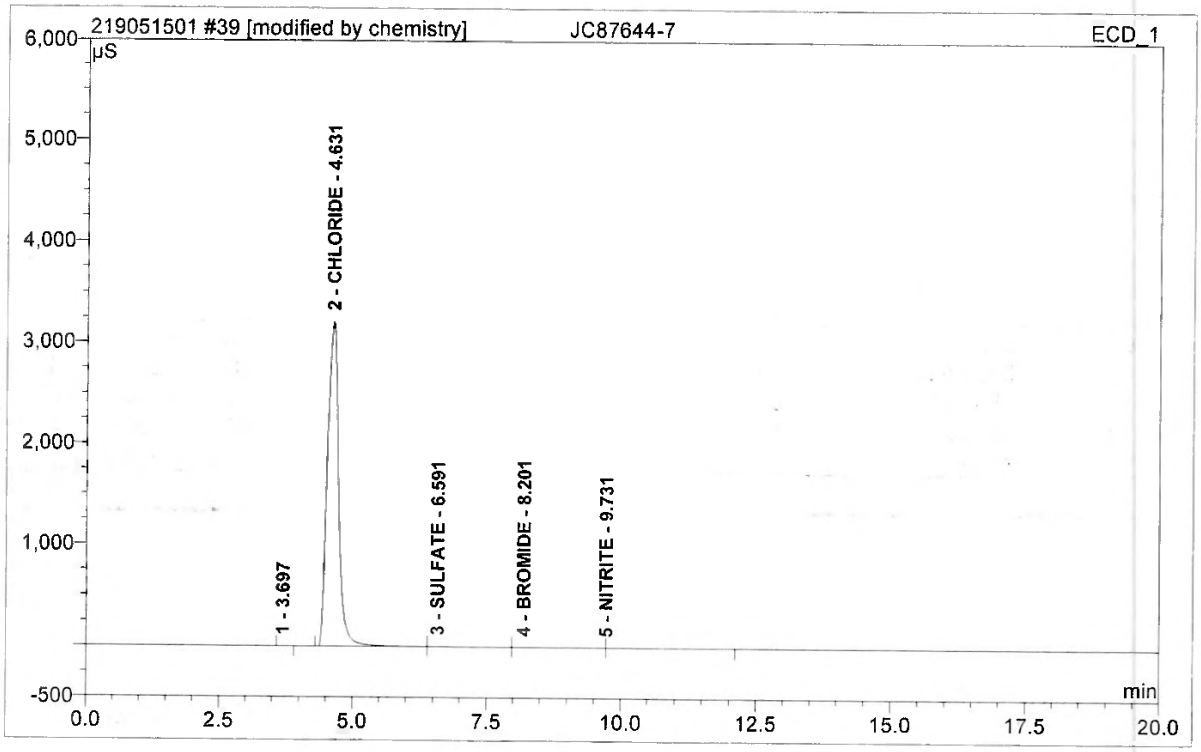
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

39 JC87644-7

Sample Name:	**JC87644-7**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 21:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.70	n.a.	0.008	0.001	0.00	n.a.	BMB
2	4.63	CHLORIDE	3212.312	785.677	99.56	26268.645	BM
3	6.59	SULFATE	3.852	2.293	0.29	102.854	M
4	8.20	BROMIDE	1.113	0.871	0.11	58.556	M *
5	9.73	NITRITE	0.264	0.289	0.04	4.121	MB*
Total:			3217.550	789.131	100.00	26434.177	

PW
NV 5/16/19

anions/Integration

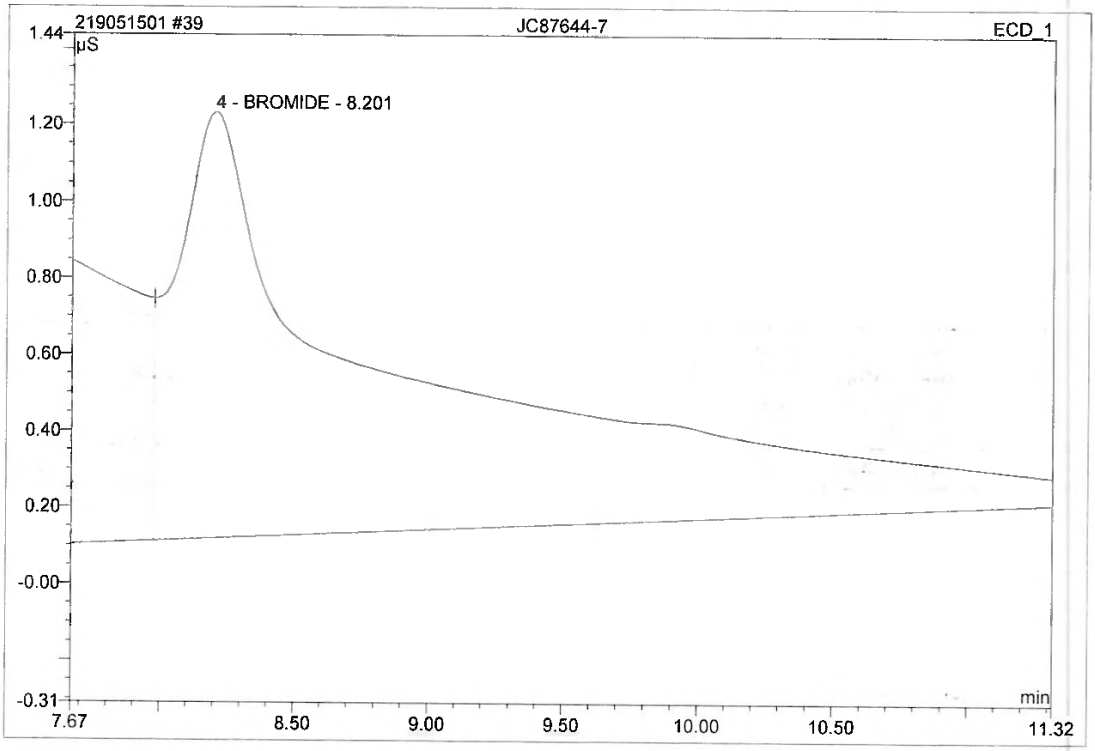
Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

9.3

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

39 JC87644-7

Sample Name:	**JC87644-7**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 21:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.70	n.a.	0.008	0.001	0.00	n.a.	BMB
2	4.63	CHLORIDE	3212.312	785.677	99.56	#########	BM
3	6.59	SULFATE	3.852	2.293	0.29	102.854	M
4	8.20	BROMIDE	1.113	1.160	0.15	77.977	MB
Total:			3217.286	789.131	100.00	#########	

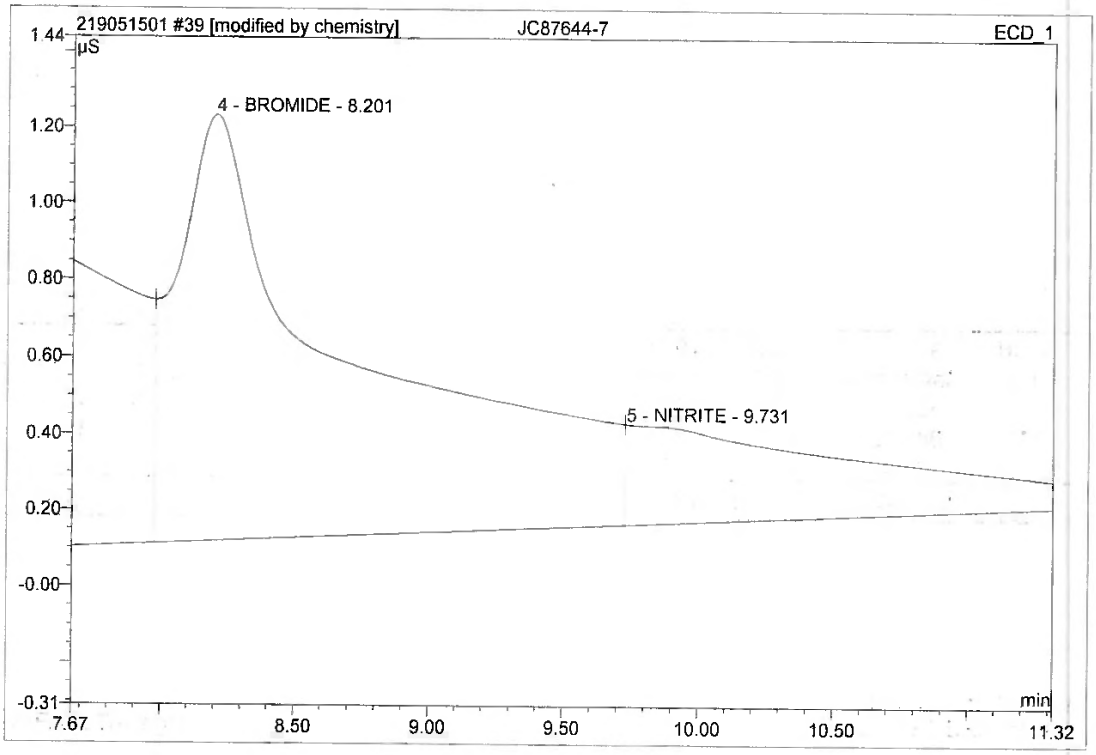
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

39 JC87644-7

Sample Name:	**JC87644-7**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 21:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



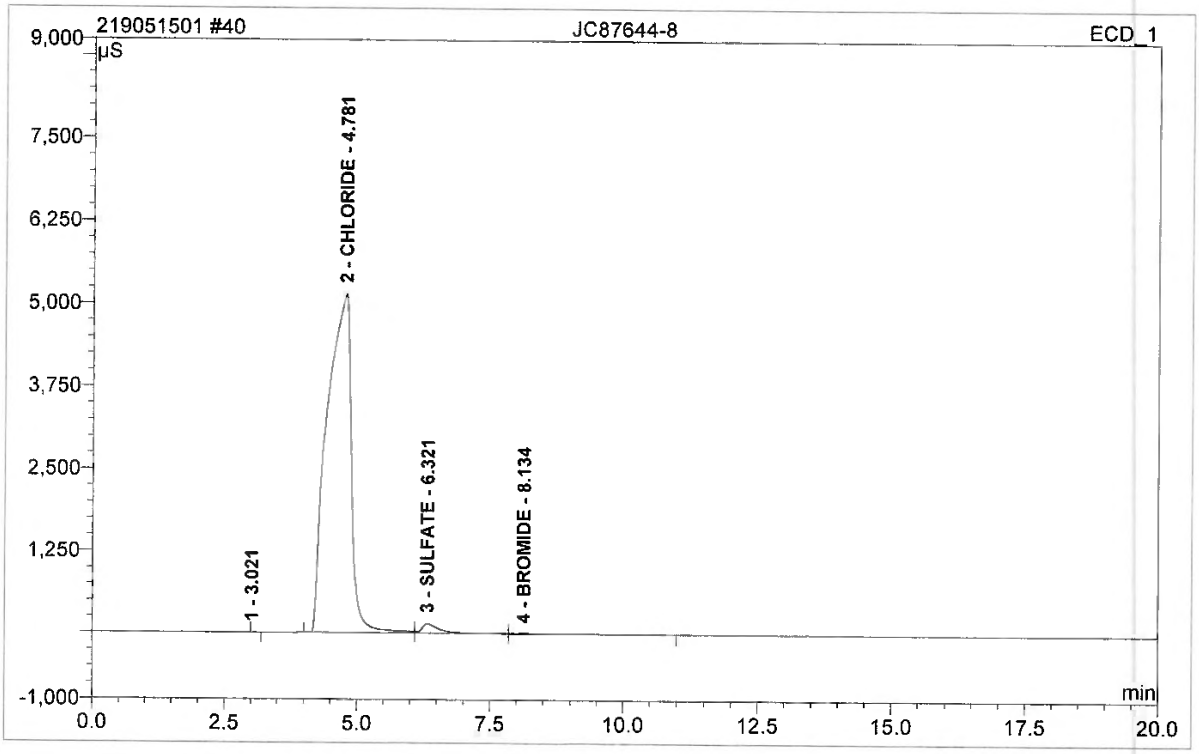
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.70	n.a.	0.008	0.001	0.00	n.a.	BMB
2	4.63	CHLORIDE	3212.312	785.677	99.56	#########	BM
3	6.59	SULFATE	3.852	2.293	0.29	102.854	M
4	8.20	BROMIDE	1.113	0.871	0.11	58.556	M *
5	9.73	NITRITE	0.264	0.289	0.04	4.121	MB*
Total:			3217.550	789.131	100.00	#########	

DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

40 JC87644-8

Sample Name:	**JC87644-8**	*Injection Volume:*	**20.0**
Vial Number:	**31**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 22:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



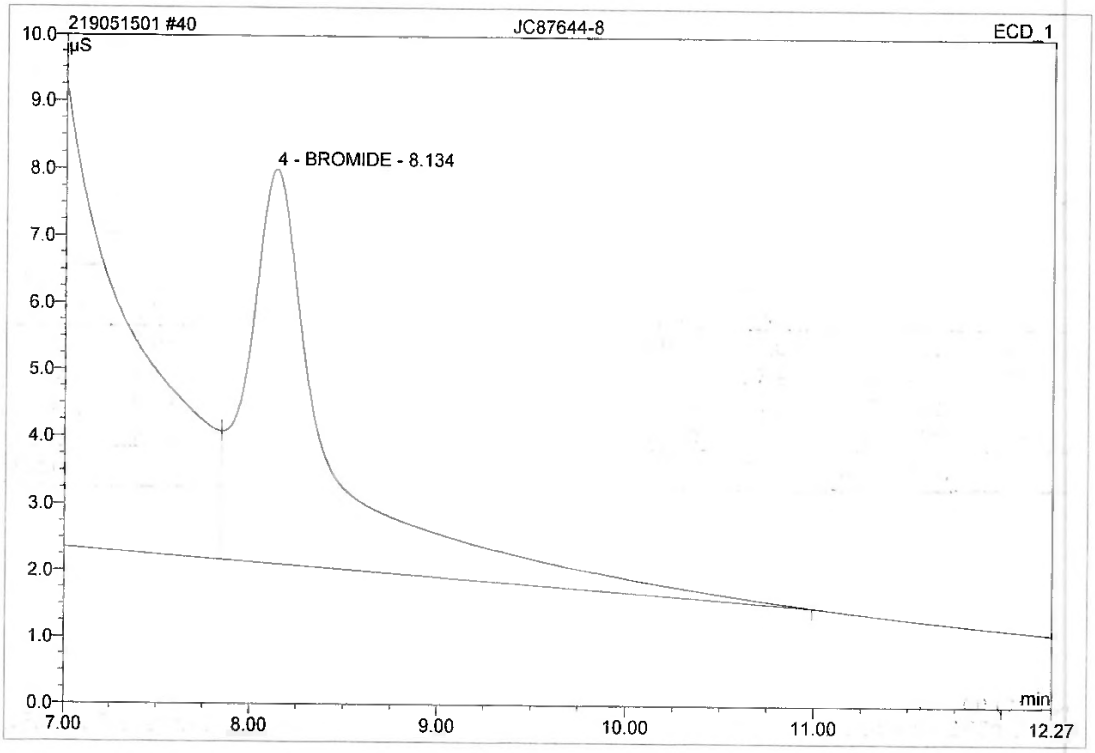
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.02	n.a.	0.061	0.011	0.00	n.a.	BMB
2	4.78	CHLORIDE	5145.208	2735.066	97.91	91445.269	BM
3	6.32	SULFATE	146.261	55.185	1.98	2475.399	M
4	8.13	BROMIDE	5.897	3.070	0.11	206.371	MB
Total:			5297.427	2793.332	100.00	94127.039	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

5/16/2019 10:30 AM

40 JC87644-8

Sample Name:	**JC87644-8**	*Injection Volume:*	**20.0**
Vial Number:	**31**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 22:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.02	n.a.	0.061	0.011	0.00	n.a.	BMB
2	4.78	CHLORIDE	5145.208	2735.066	97.91	#########	BM
3	6.32	SULFATE	146.261	55.185	1.98	2475.399	M
4	8.13	BROMIDE	5.897	3.070	0.11	206.371	MB
Total:			5297.427	2793.332	100.00	#########	

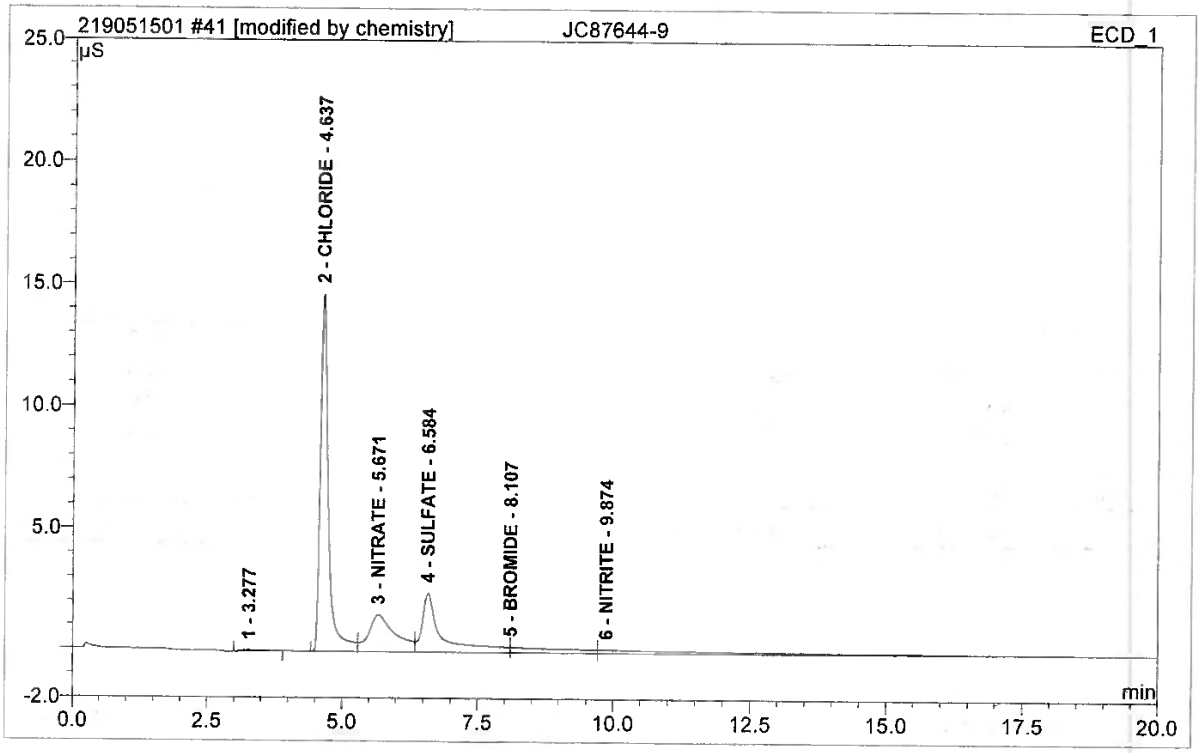
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

41 JC87644-9

Sample Name:	**JC87644-9**	*Injection Volume:*	**20.0**
Vial Number:	**32**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 22:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.049	0.019	0.37	n.a.	BMB
2	4.64	CHLORIDE	14.688	2.549	49.00	85.212	BM
3	5.67	NITRATE	1.523	0.865	16.63	13.642	M *
4	6.58	SULFATE	2.452	1.025	19.70	45.960	M *
5	8.11	BROMIDE	0.215	0.266	5.10	17.851	M *
6	9.87	NITRITE	0.132	0.479	9.20	6.826	MB
Total:			19.059	5.202	100.00	169.490	

missed peak
NV 5/16/19

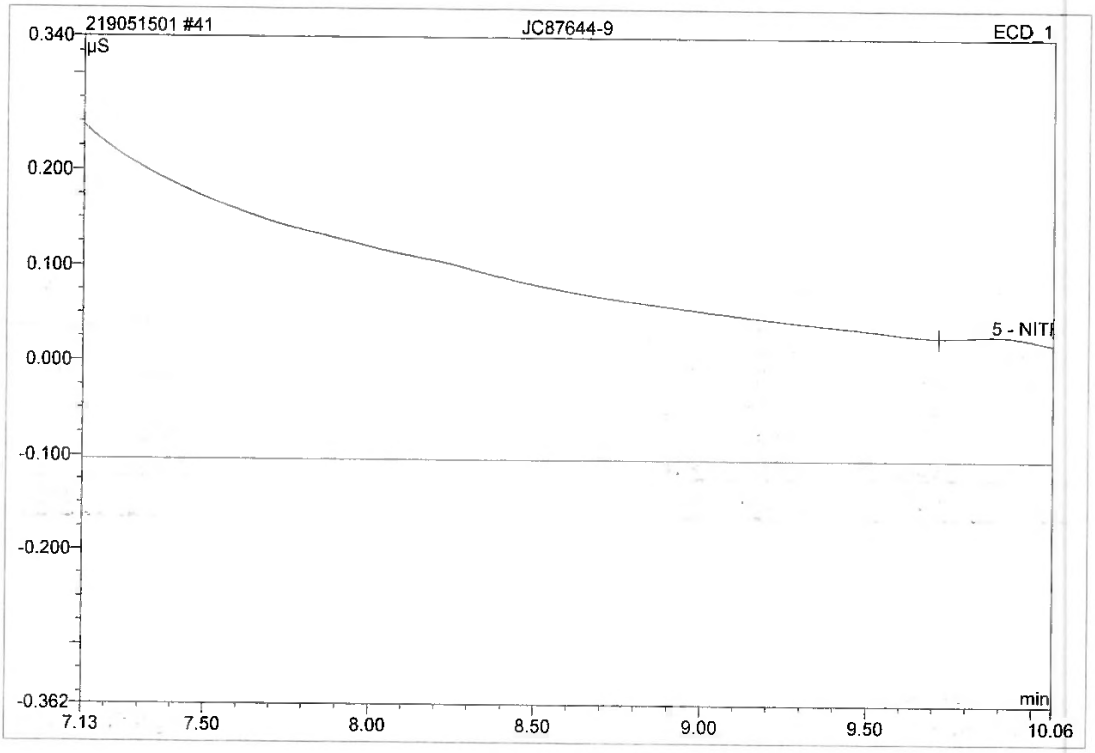
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

41 JC87644-9

Sample Name:	**JC87644-9**	*Injection Volume:*	**20.0**
Vial Number:	**32**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 22:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.049	0.019	0.37	n.a.	BMB
2	4.64	CHLORIDE	14.688	2.549	49.00	85.212	BM
3	5.67	NITRATE	1.523	0.865	16.63	13.642	M
4	6.58	SULFATE	2.452	1.290	24.80	57.871	M
5	9.87	NITRITE	0.132	0.479	9.20	6.826	MB
Total:			18.844	5.202	100.00	163.550	

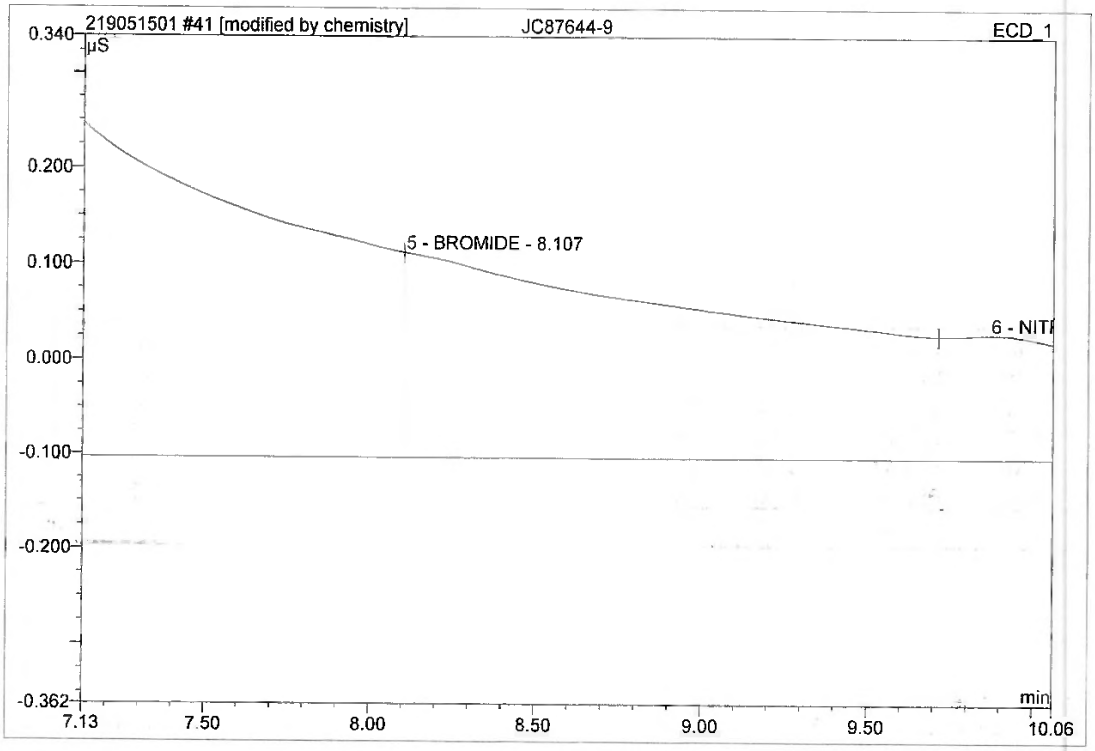
DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

41 JC87644-9

Sample Name:	**JC87644-9**	*Injection Volume:*	**20.0**
Vial Number:	**32**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/15/2019 22:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



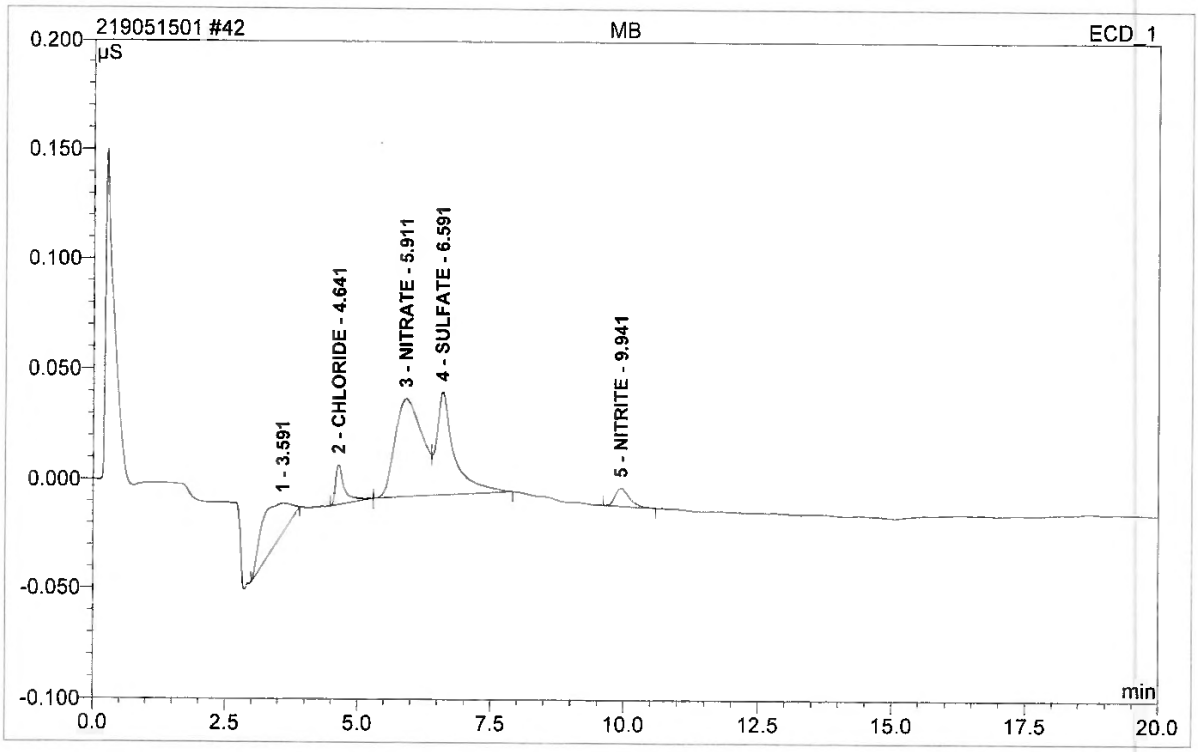
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.049	0.019	0.37	n.a.	BMB
2	4.64	CHLORIDE	14.688	2.549	49.00	85.212	BM
3	5.67	NITRATE	1.523	0.865	16.63	13.642	M *
4	6.58	SULFATE	2.452	1.025	19.70	45.960	M *
5	8.11	BROMIDE	0.215	0.266	5.10	17.851	M *
6	9.87	NITRITE	0.132	0.479	9.20	6.826	MB
Total:			19.059	5.202	100.00	169.490	

DEFAULT/Integration

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

42 MB

Sample Name:	**MB**	*Injection Volume:*	**20.0**
Vial Number:	**33**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 22:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.59	n.a.	0.014	0.011	18.01	n.a.	BMB
2	4.64	CHLORIDE	0.018	0.004	5.69	0.012	BMB
3	5.91	NITRATE	0.045	0.026	42.35	0.041	bM
4	6.59	SULFATE	0.047	0.018	29.68	0.082	MB
5	9.94	NITRITE	0.008	0.003	4.27	0.004	BMB
Total:			0.132	0.062	100.00	0.139	

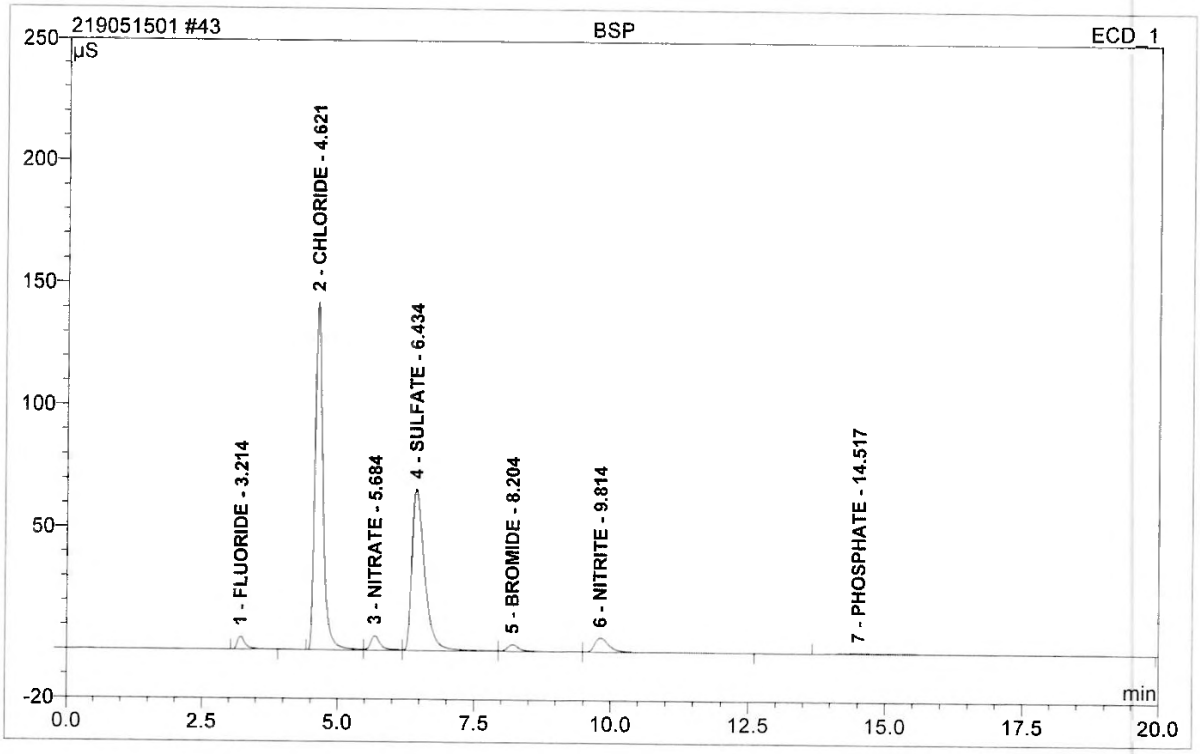
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

43 BSP

Sample Name:	**BSP**	*Injection Volume:*	**20.0**
Vial Number:	**34**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 23:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



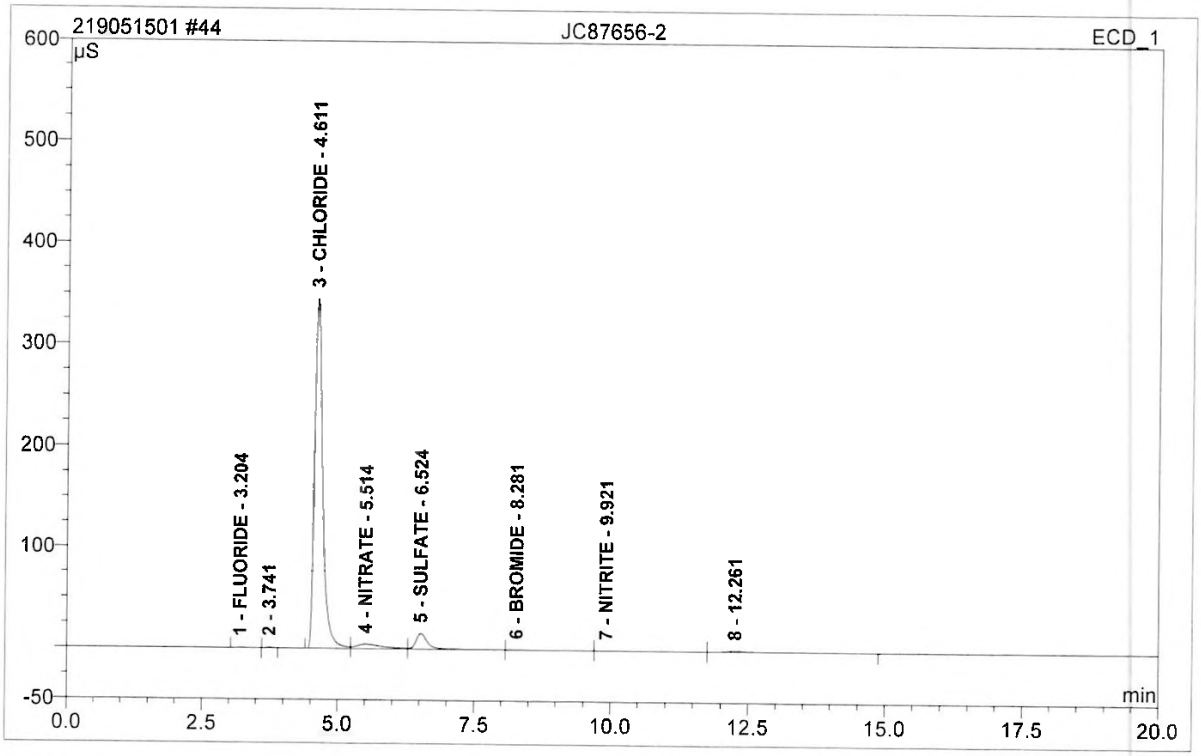
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	5.180	0.886	1.89	1.882	BMB
2	4.62	CHLORIDE	142.167	23.977	51.17	80.166	BM
3	5.68	NITRATE	5.856	1.223	2.61	1.929	M
4	6.43	SULFATE	66.065	17.808	38.00	79.879	M
5	8.20	BROMIDE	2.740	0.715	1.52	4.803	M
6	9.81	NITRITE	5.671	1.762	3.76	2.513	MB
7	14.52	PHOSPHATE	0.267	0.486	1.04	19.820	BMB
Total:			227.947	46.857	100.00	190.993	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

44 JC87656-2

Sample Name:	**JC87656-2**	*Injection Volume:*	**20.0**
Vial Number:	**35**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/15/2019 23:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



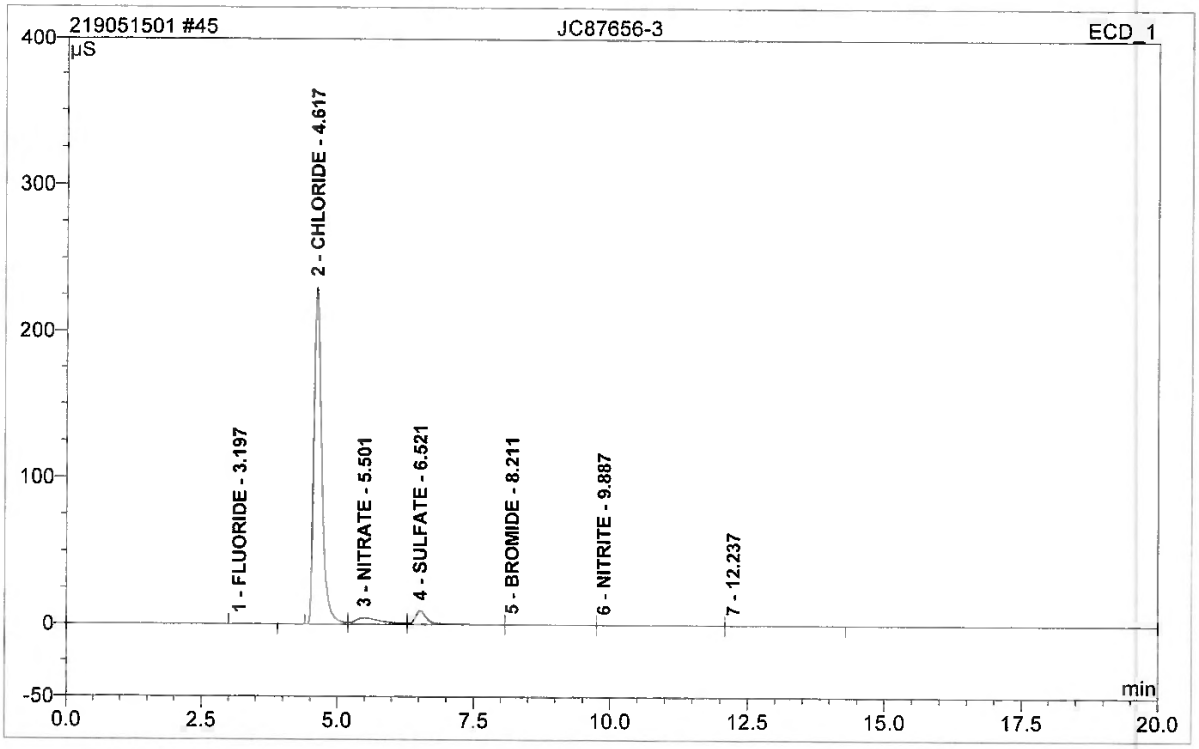
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.502	0.081	0.12	0.172	BMB
2	3.74	n.a.	0.642	0.079	0.12	n.a.	BMB
3	4.61	CHLORIDE	345.286	59.759	88.62	199.801	BM
4	5.51	NITRATE	4.541	2.620	3.89	4.132	M
5	6.52	SULFATE	15.201	4.131	6.13	18.528	M
6	8.28	BROMIDE	0.269	0.241	0.36	1.621	M
7	9.92	NITRITE	0.096	0.107	0.16	0.152	M
8	12.26	n.a.	0.944	0.417	0.62	n.a.	MB
9	20.76	n.a.	0.003	0.001	0.00	n.a.	BMB
Total:			367.484	67.436	100.00	224.407	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

45 JC87656-3

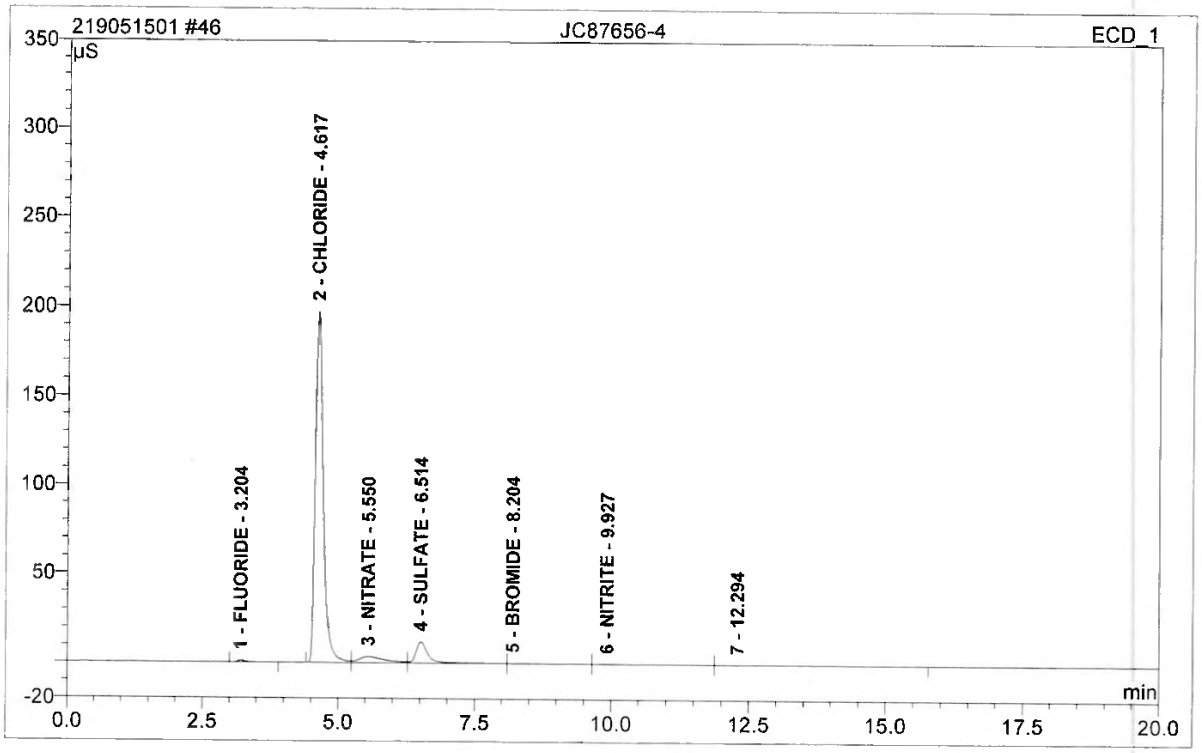
Sample Name:	**JC87656-3**	*Injection Volume:*	**20.0**
Vial Number:	**36**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 0:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.359	0.071	0.16	0.150	BMB
2	4.62	CHLORIDE	230.167	39.123	87.22	130.804	BM
3	5.50	NITRATE	4.522	2.610	5.82	4.115	M
4	6.52	SULFATE	9.491	2.752	6.14	12.346	M
5	8.21	BROMIDE	0.224	0.198	0.44	1.332	M
6	9.89	NITRITE	0.064	0.083	0.19	0.119	M
7	12.24	n.a.	0.018	0.018	0.04	n.a.	MB
Total:			244.844	44.855	100.00	148.866	

46 JC87656-4

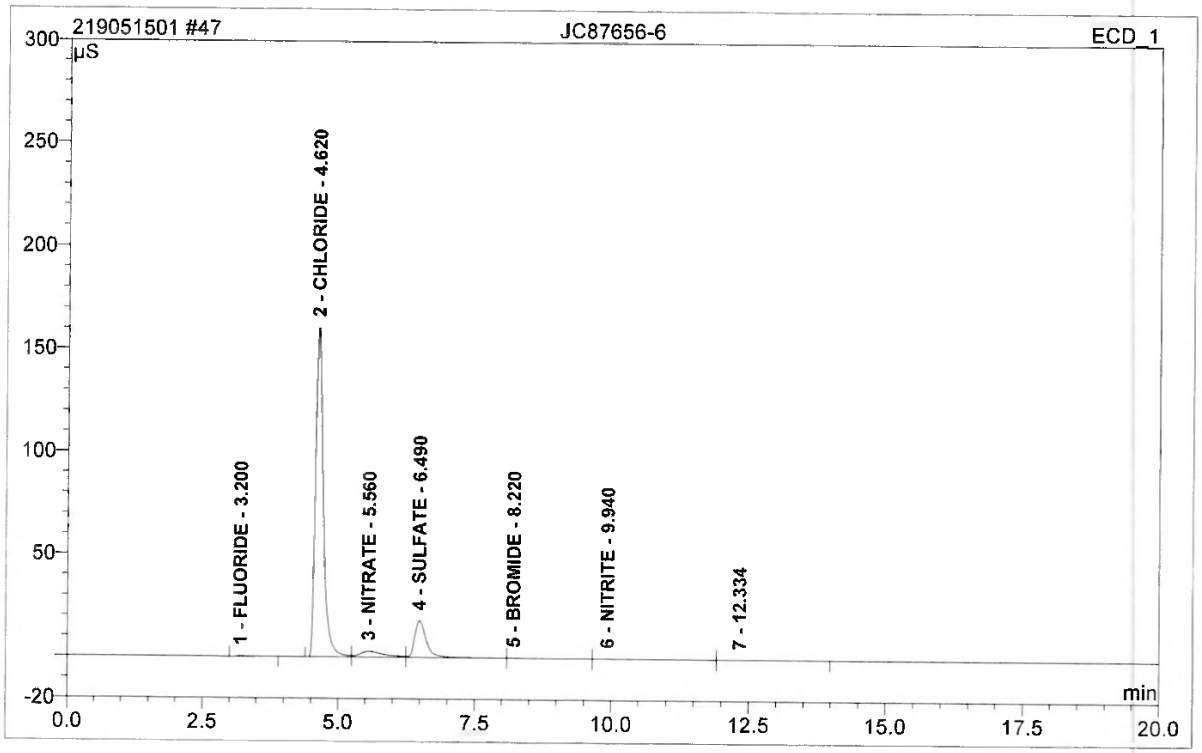
Sample Name:	**JC87656-4**	*Injection Volume:*	**20.0**
Vial Number:	**37**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 0:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.959	0.167	0.43	0.354	BMB
2	4.62	CHLORIDE	197.114	33.562	85.84	112.212	BM
3	5.55	NITRATE	3.476	1.883	4.82	2.970	M
4	6.51	SULFATE	11.948	3.212	8.22	14.410	M
5	8.20	BROMIDE	0.161	0.144	0.37	0.965	M
6	9.93	NITRITE	0.129	0.093	0.24	0.133	M
7	12.29	n.a.	0.023	0.035	0.09	n.a.	MB
Total:			213.810	39.096	100.00	131.044	

47 JC87656-6

Sample Name:	**JC87656-6**	*Injection Volume:*	**20.0**
Vial Number:	**38**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 0:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



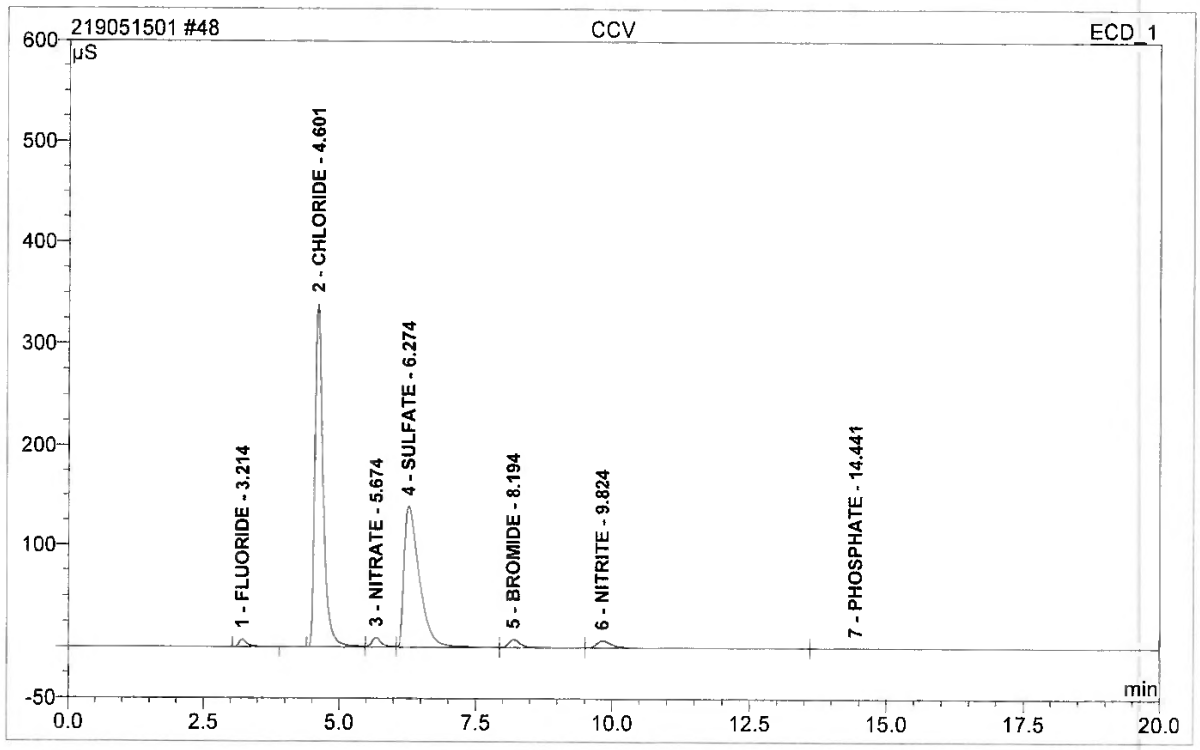
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.300	0.059	0.18	0.126	BMB
2	4.62	CHLORIDE	160.476	26.898	80.64	89.932	BM
3	5.56	NITRATE	2.964	1.541	4.62	2.430	M
4	6.49	SULFATE	17.906	4.621	13.85	20.727	M
5	8.22	BROMIDE	0.150	0.131	0.39	0.880	M
6	9.94	NITRITE	0.134	0.084	0.25	0.120	M
7	12.33	n.a.	0.029	0.020	0.06	n.a.	MB
Total:			181.960	33.354	100.00	114.215	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

48 CCV

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**39**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 1:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

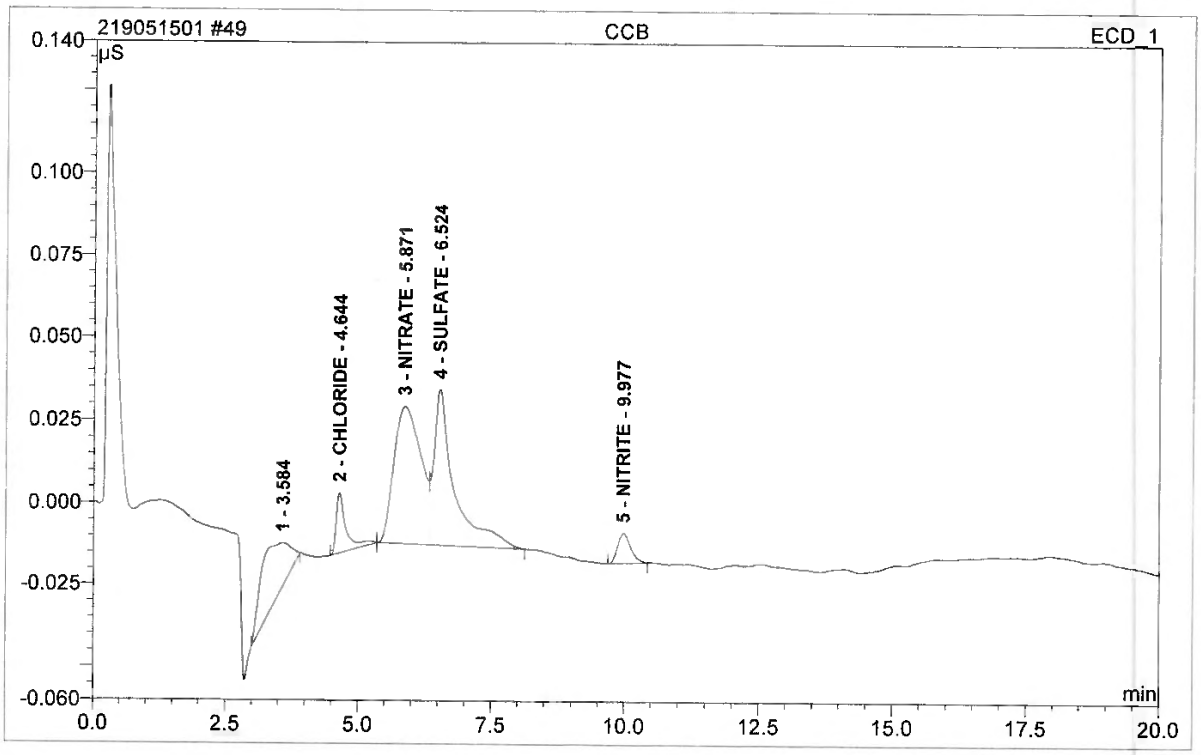


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	7.335	1.300	1.15	2.761	BMB
2	4.60	CHLORIDE	339.341	59.770	52.92	199.837	BM
3	5.67	NITRATE	9.230	1.958	1.73	3.087	M
4	6.27	SULFATE	139.280	44.808	39.67	200.990	M
5	8.19	BROMIDE	7.887	2.113	1.87	14.202	M
6	9.82	NITRITE	6.981	2.348	2.08	3.349	M
7	14.44	PHOSPHATE	0.333	0.643	0.57	26.220	M
8	20.16	n.a.	0.008	0.004	0.00	n.a.	MB
Total:			510.395	112.943	100.00	450.446	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

49 CCB

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**40**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 1:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



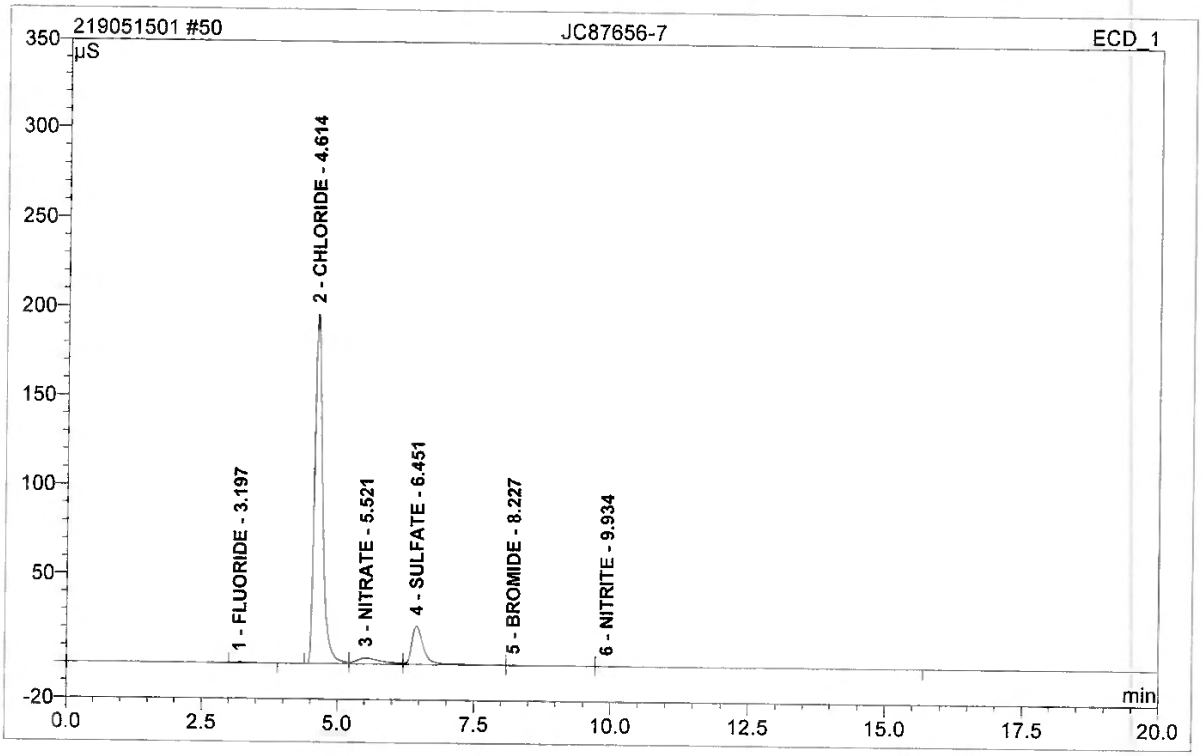
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.58	n.a.	0.013	0.011	16.95	n.a.	BMB
2	4.64	CHLORIDE	0.018	0.004	6.23	0.013	BMB
3	5.87	NITRATE	0.042	0.024	38.51	0.038	bM
4	6.52	SULFATE	0.047	0.021	34.14	0.096	MB
5	9.98	NITRITE	0.009	0.003	4.17	0.004	BMB
Total:			0.129	0.063	100.00	0.151	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

50 JC87656-7

Sample Name:	**JC87656-7**	*Injection Volume:*	**20.0**
Vial Number:	**41**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 2:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.336	0.067	0.16	0.141	BMB
2	4.61	CHLORIDE	196.441	33.505	81.42	112.021	BM
3	5.52	NITRATE	3.370	1.778	4.32	2.804	M
4	6.45	SULFATE	21.527	5.537	13.46	24.836	M
5	8.23	BROMIDE	0.172	0.157	0.38	1.057	M
6	9.93	NITRITE	0.058	0.106	0.26	0.152	MB
Total:			221.904	41.150	100.00	141.011	

anions/Integration

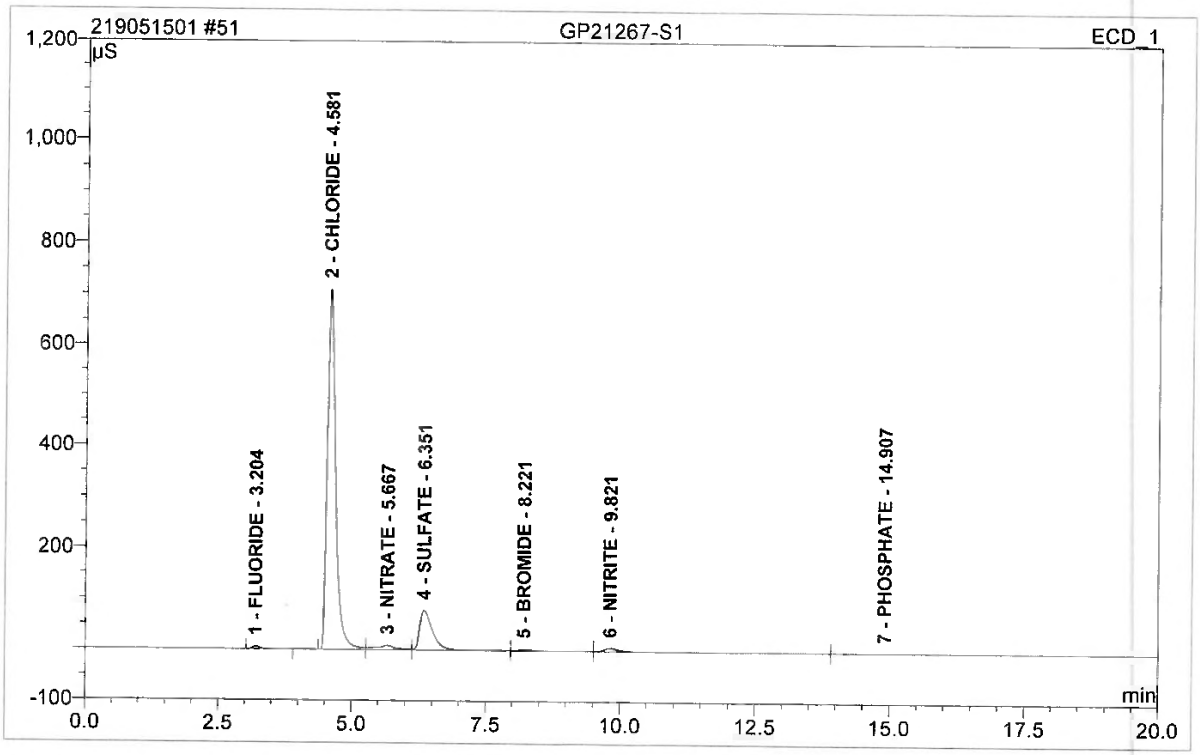
Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

51 GP21267-S1

JC87662-1

Sample Name:	**GP21267-S1**	*Injection Volume:*	**20.0**
Vial Number:	**42**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 2:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	5.157	0.916	0.58	1.946	BMB
2	4.58	CHLORIDE	709.515	127.514	81.01	426.335	BM
3	5.67	NITRATE	8.288	3.479	2.21	5.487	M
4	6.35	SULFATE	77.610	21.867	13.89	98.086	M
5	8.22	BROMIDE	2.933	0.962	0.61	6.469	M
6	9.82	NITRITE	6.310	2.172	1.38	3.098	M
7	14.91	PHOSPHATE	0.204	0.503	0.32	20.496	MB
Total:			810.017	157.413	100.00	561.917	

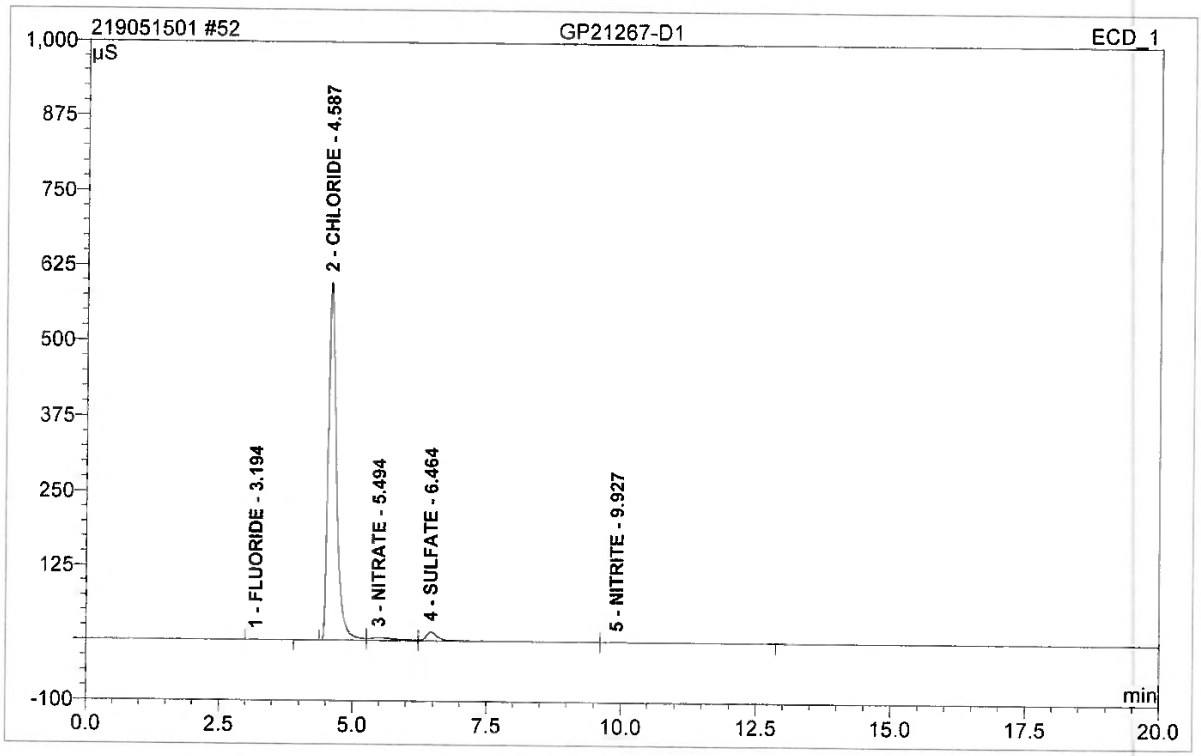
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

52 GP21267-D1

JC87662-1

Sample Name:	**GP21267-D1**	*Injection Volume:*	**20.0**
Vial Number:	**43**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 2:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

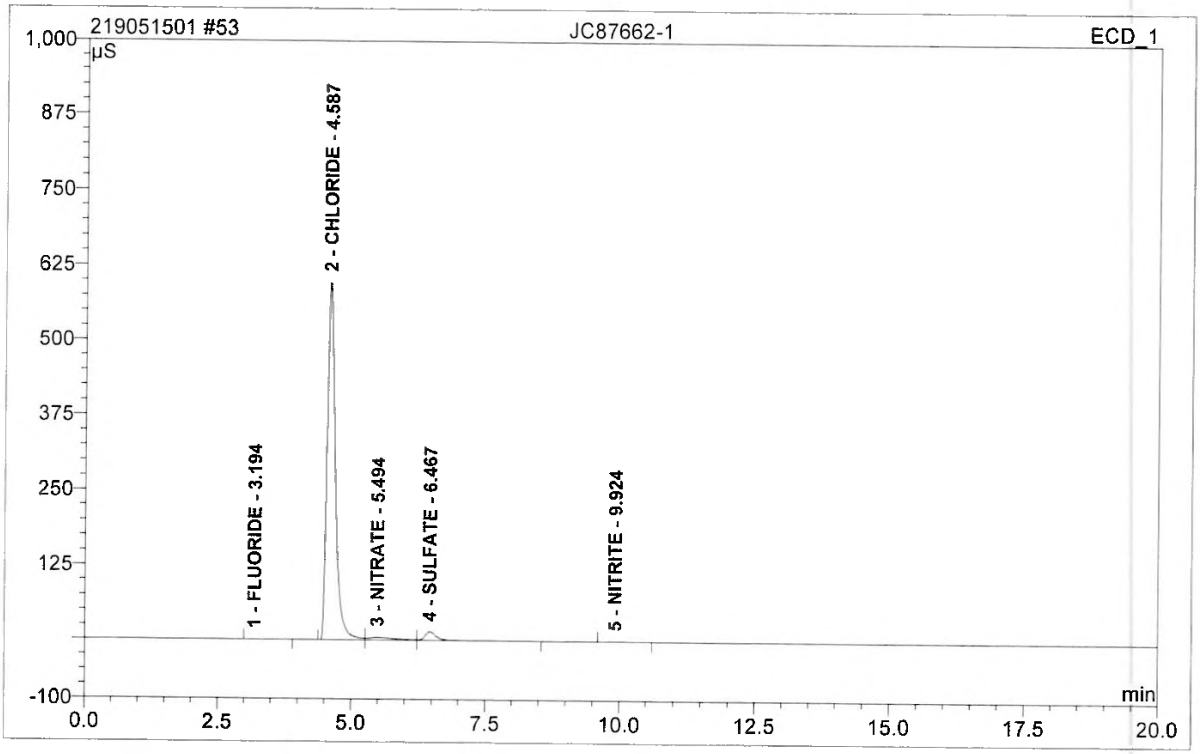


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.127	0.031	0.03	0.066	BMB
2	4.59	CHLORIDE	596.814	106.963	93.75	357.623	BM
3	5.49	NITRATE	4.507	2.532	2.22	3.993	M
4	6.46	SULFATE	14.820	4.345	3.81	19.489	M
5	9.93	NITRITE	0.439	0.223	0.20	0.318	MB
Total:			616.708	114.093	100.00	381.488	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

53 JC87662-1

Sample Name:	**JC87662-1**	*Injection Volume:*	**20.0**
Vial Number:	**44**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 3:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.126	0.031	0.03	0.066	BMB
2	4.59	CHLORIDE	596.858	106.886	94.24	357.367	BM
3	5.49	NITRATE	4.470	2.491	2.20	3.928	M
4	6.47	SULFATE	14.670	3.916	3.45	17.567	MB
5	9.92	NITRITE	0.355	0.099	0.09	0.141	BMB
Total:			616.479	113.423	100.00	379.068	

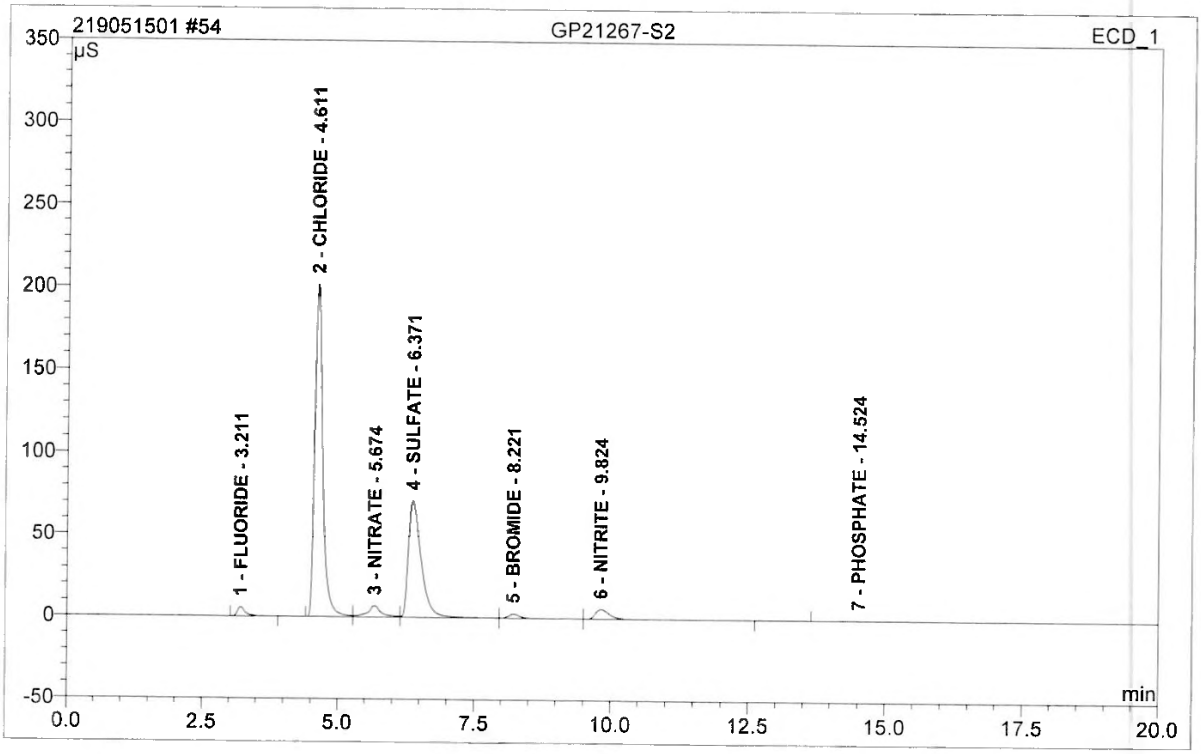
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

54 GP21267-S2

JC87662-2

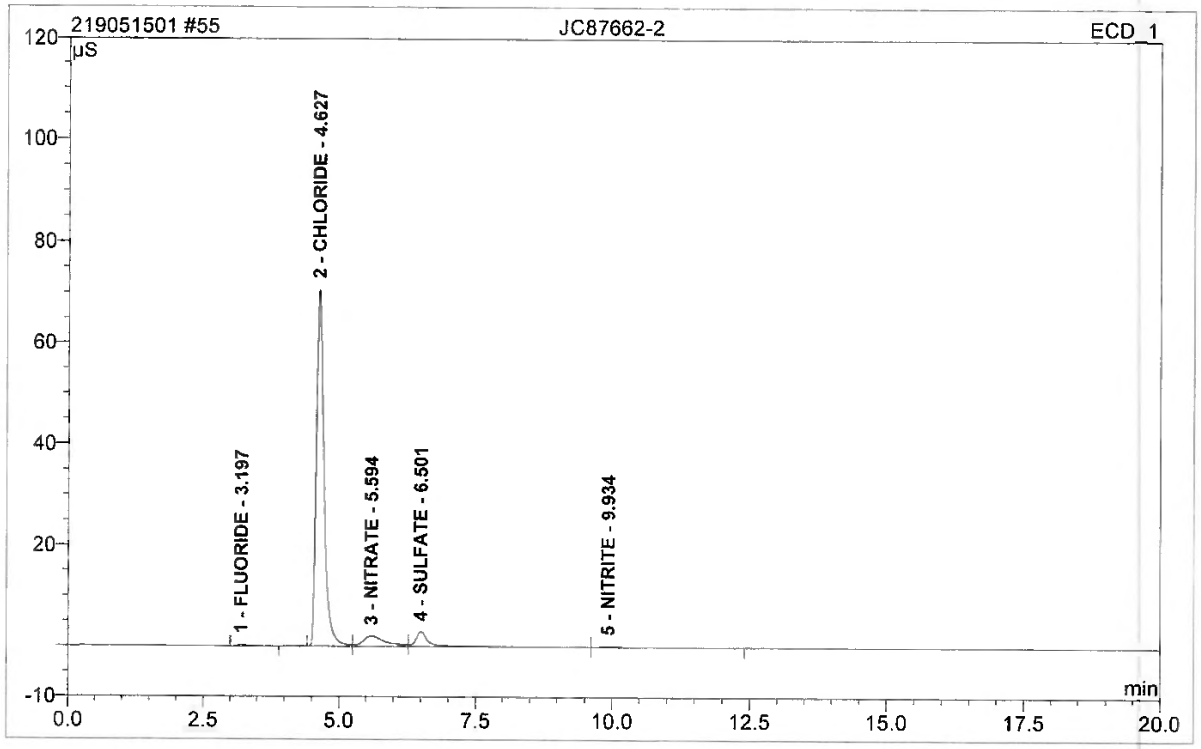
Sample Name:	**GP21267-S2**	*Injection Volume:*	**20.0**
Vial Number:	**45**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 3:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	5.460	0.933	1.55	1.981	BMB
2	4.61	CHLORIDE	201.678	34.609	57.54	115.713	BM
3	5.67	NITRATE	6.876	2.073	3.45	3.269	M
4	6.37	SULFATE	71.464	19.486	32.40	87.405	M
5	8.22	BROMIDE	2.680	0.744	1.24	5.000	M
6	9.82	NITRITE	5.920	1.836	3.05	2.619	MB
7	14.52	PHOSPHATE	0.227	0.465	0.77	18.961	BMB
Total:			294.304	60.145	100.00	234.948	

55 JC87662-2

Sample Name:	**JC87662-2**	*Injection Volume:*	**20.0**
Vial Number:	**46**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 4:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

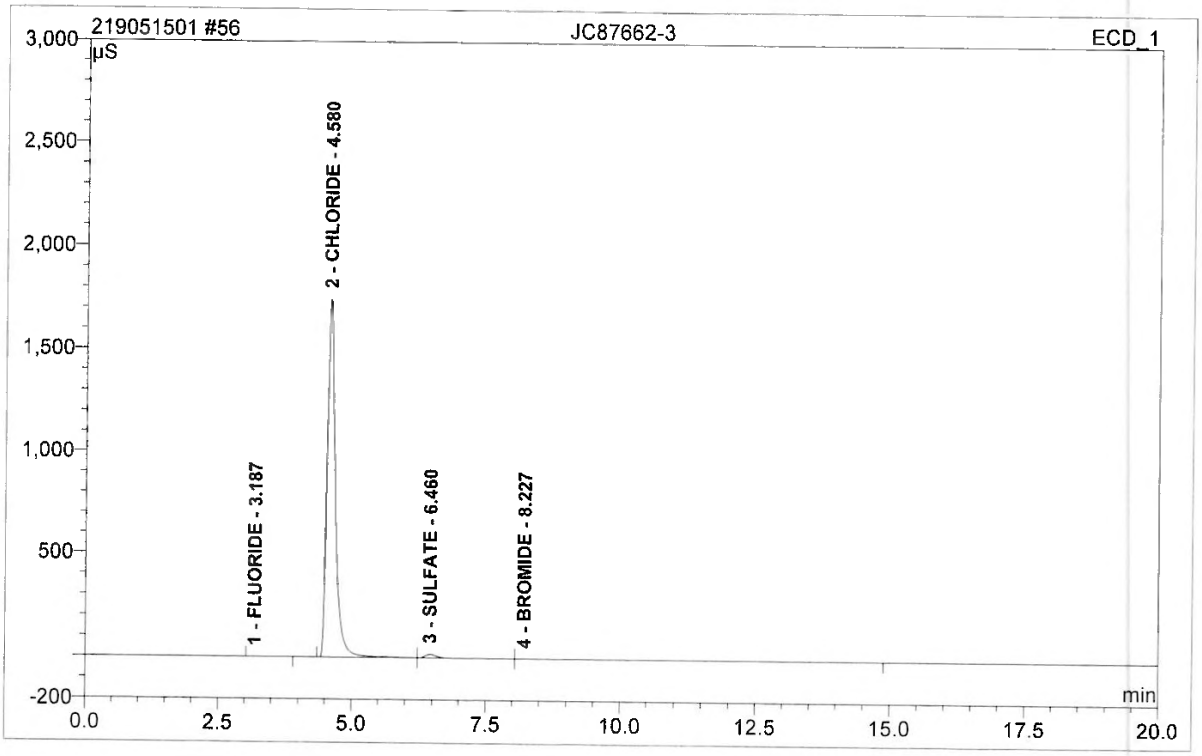


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.310	0.061	0.44	0.129	BMB
2	4.63	CHLORIDE	70.587	11.641	84.94	38.920	BM
3	5.59	NITRATE	2.020	0.994	7.25	1.568	M
4	6.50	SULFATE	2.898	0.928	6.77	4.162	M
5	9.93	NITRITE	0.208	0.081	0.59	0.116	MB
Total:			76.023	13.705	100.00	44.895	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

56 JC87662-3

Sample Name:	**JC87662-3**	*Injection Volume:*	**20.0**
Vial Number:	**47**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 4:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

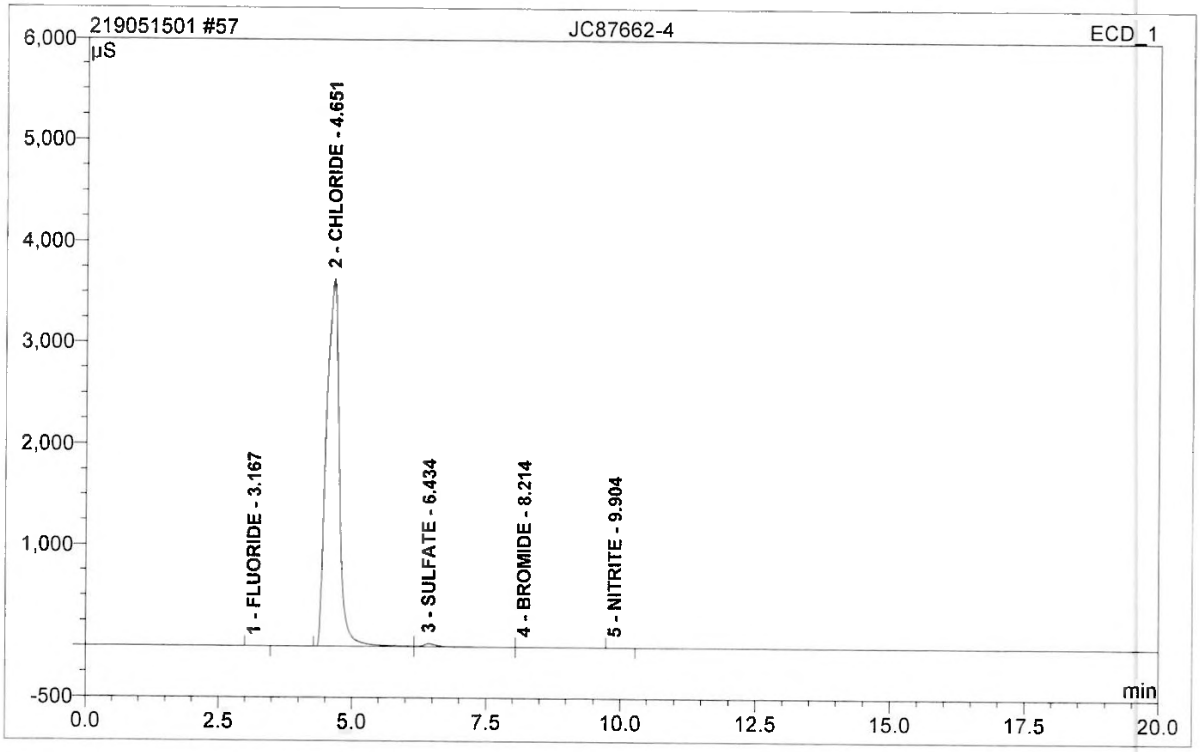


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.320	0.059	0.02	0.125	BMB
2	4.58	CHLORIDE	1743.630	314.313	98.01	1050.888	BM
3	6.46	SULFATE	18.235	5.356	1.67	24.023	M
4	8.23	BROMIDE	0.504	0.977	0.30	6.566	MB
Total:			1762.689	320.705	100.00	1081.602	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

57 JC87662-4

Sample Name:	**JC87662-4**	*Injection Volume:*	**20.0**
Vial Number:	**48**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 4:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

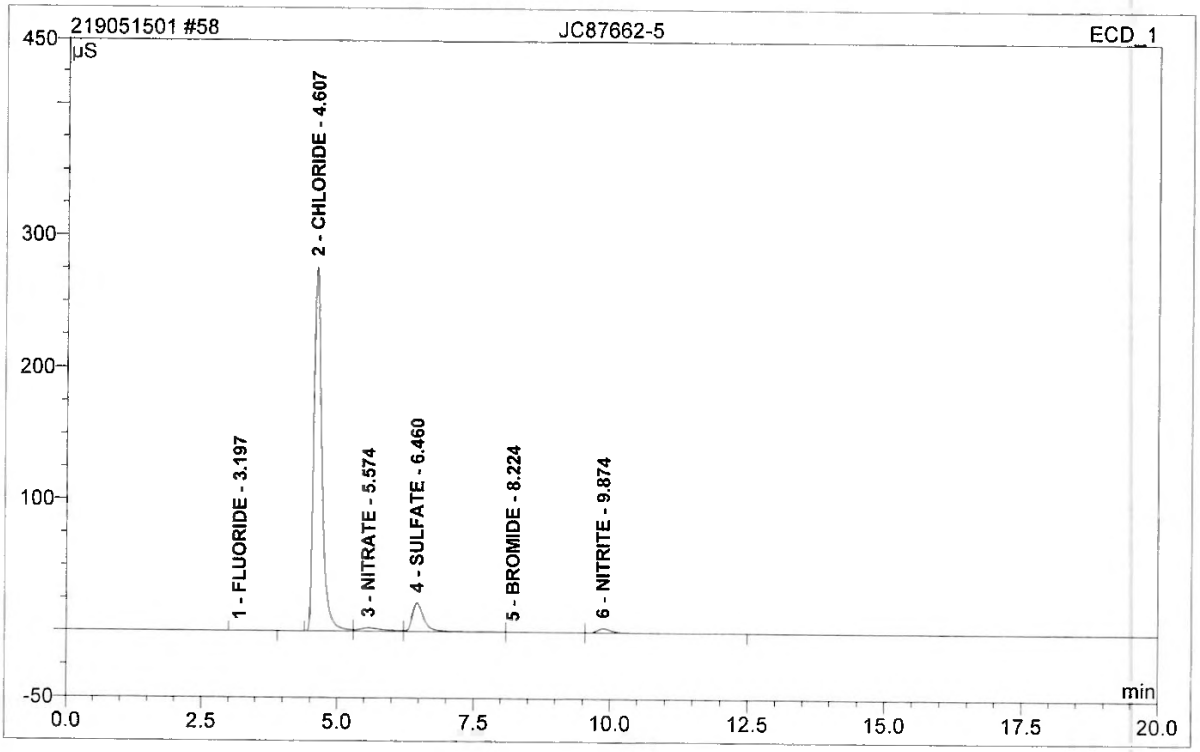


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.17	FLUORIDE	0.199	0.036	0.00	0.077	BMB
2	4.65	CHLORIDE	3633.007	1019.486	98.49	3408.589	BM
3	6.43	SULFATE	30.897	11.315	1.09	50.755	M
4	8.21	BROMIDE	1.418	4.312	0.42	28.985	MB
5	9.90	NITRITE	0.055	0.014	0.00	0.020	Rd
Total:			3665.576	1035.163	100.00	3488.425	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

58 JC87662-5

Sample Name:	**JC87662-5**	*Injection Volume:*	**20.0**
Vial Number:	**49**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 5:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.115	0.030	0.05	0.065	BMB
2	4.61	CHLORIDE	275.880	48.154	85.50	161.000	BM
3	5.57	NITRATE	2.572	1.366	2.42	2.154	M
4	6.46	SULFATE	21.528	5.608	9.96	25.155	M
5	8.22	BROMIDE	0.181	0.158	0.28	1.065	M
6	9.87	NITRITE	3.234	1.005	1.78	1.433	MB
Total:			303.511	56.321	100.00	190.872	

anions/Integration

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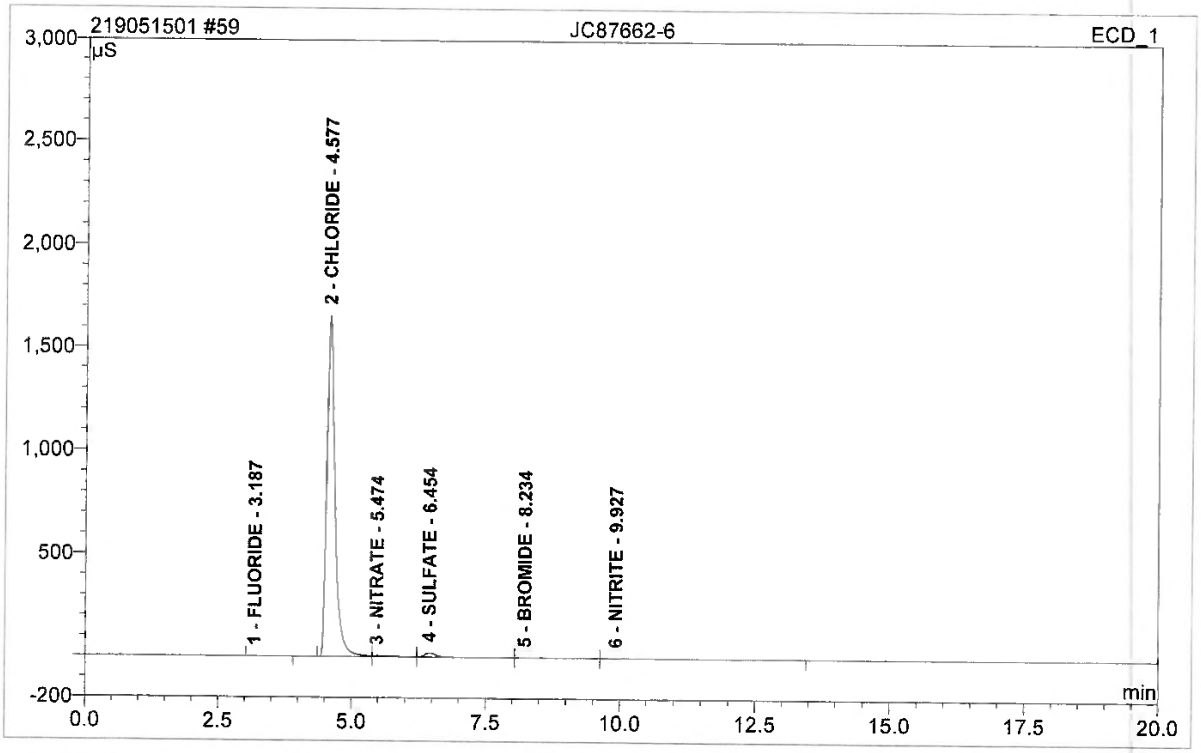
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

59 JC87662-6

Sample Name:	**JC87662-6**	*Injection Volume:*	**20.0**
Vial Number:	**50**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 5:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.456	0.085	0.03	0.180	BMB
2	4.58	CHLORIDE	1656.732	295.829	96.62	989.088	BM
3	5.47	NITRATE	5.780	2.949	0.96	4.650	M
4	6.45	SULFATE	21.855	6.370	2.08	28.573	M
5	8.23	BROMIDE	0.555	0.509	0.17	3.420	M
6	9.93	NITRITE	0.587	0.434	0.14	0.619	MB
Total:			1685.965	306.175	100.00	1026.529	

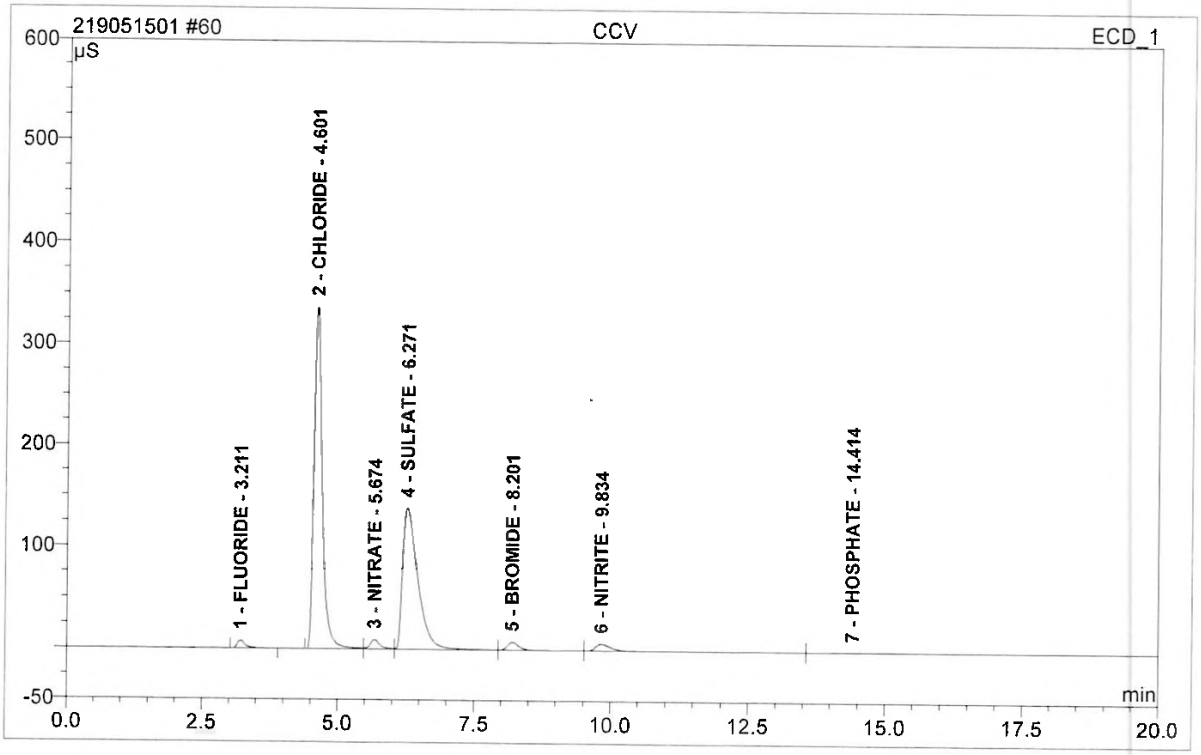
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

60 CCV

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 6:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



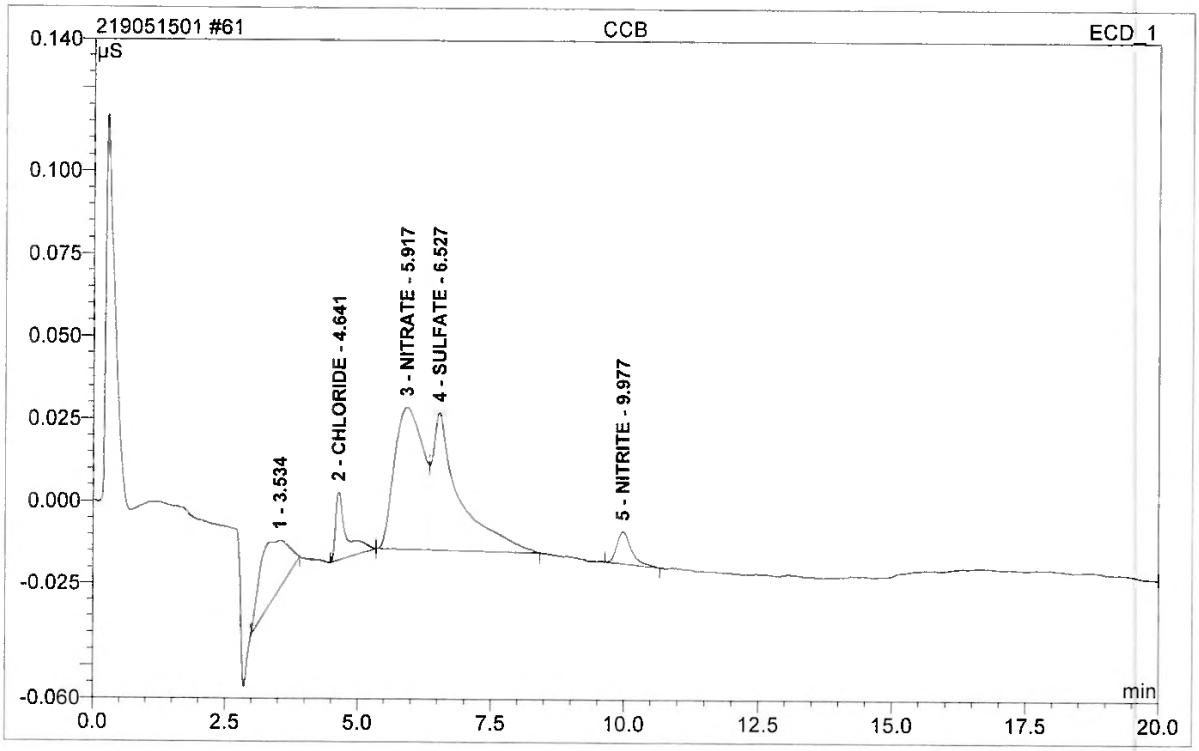
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	7.499	1.326	1.17	2.816	BMB
2	4.60	CHLORIDE	336.756	59.684	52.86	199.551	BM
3	5.67	NITRATE	9.299	1.986	1.76	3.133	M
4	6.27	SULFATE	138.616	44.785	39.66	200.888	M
5	8.20	BROMIDE	7.867	2.132	1.89	14.329	M
6	9.83	NITRITE	6.886	2.360	2.09	3.366	M
7	14.41	PHOSPHATE	0.327	0.647	0.57	26.383	MB
Total:			507.249	112.920	100.00	450.465	

anions/Integration

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

61 CCB

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 6:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.53	n.a.	0.015	0.011	15.03	n.a.	BMB
2	4.64	CHLORIDE	0.021	0.005	7.05	0.017	BMB
3	5.92	NITRATE	0.043	0.027	37.99	0.042	bM
4	6.53	SULFATE	0.042	0.025	35.47	0.111	MB
5	9.98	NITRITE	0.010	0.003	4.48	0.004	BMB
Total:			0.130	0.070	100.00	0.174	

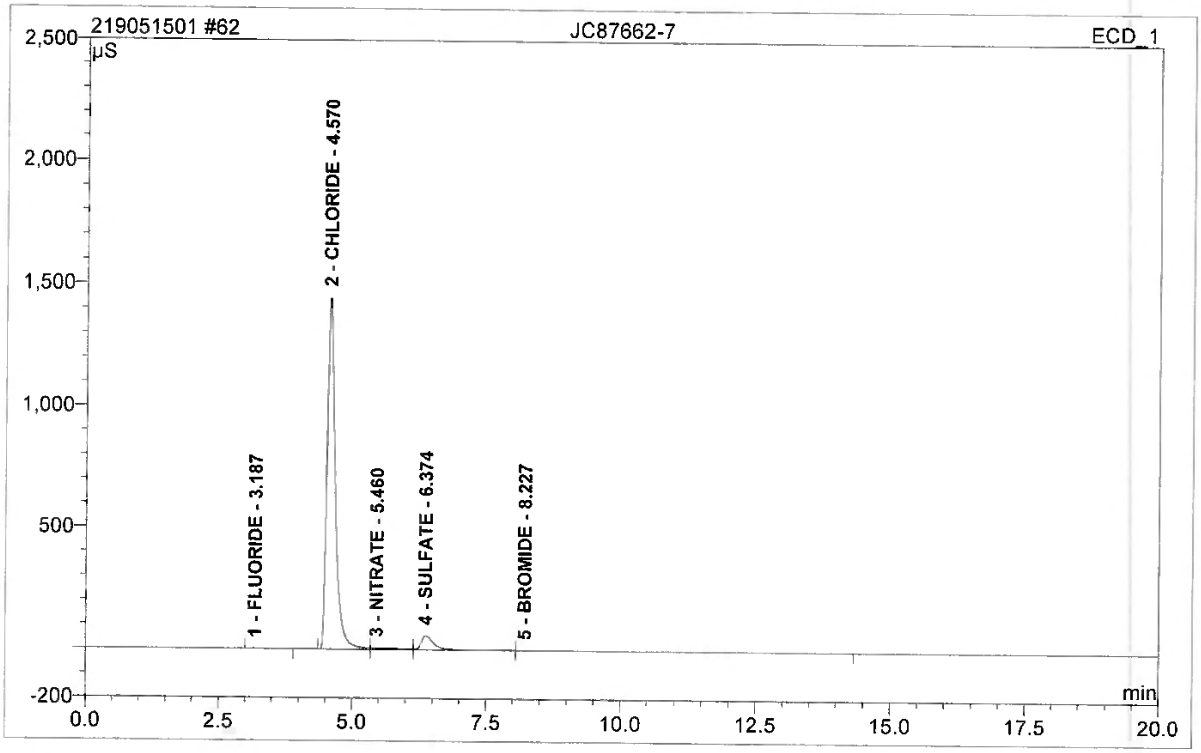
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

62 JC87662-7

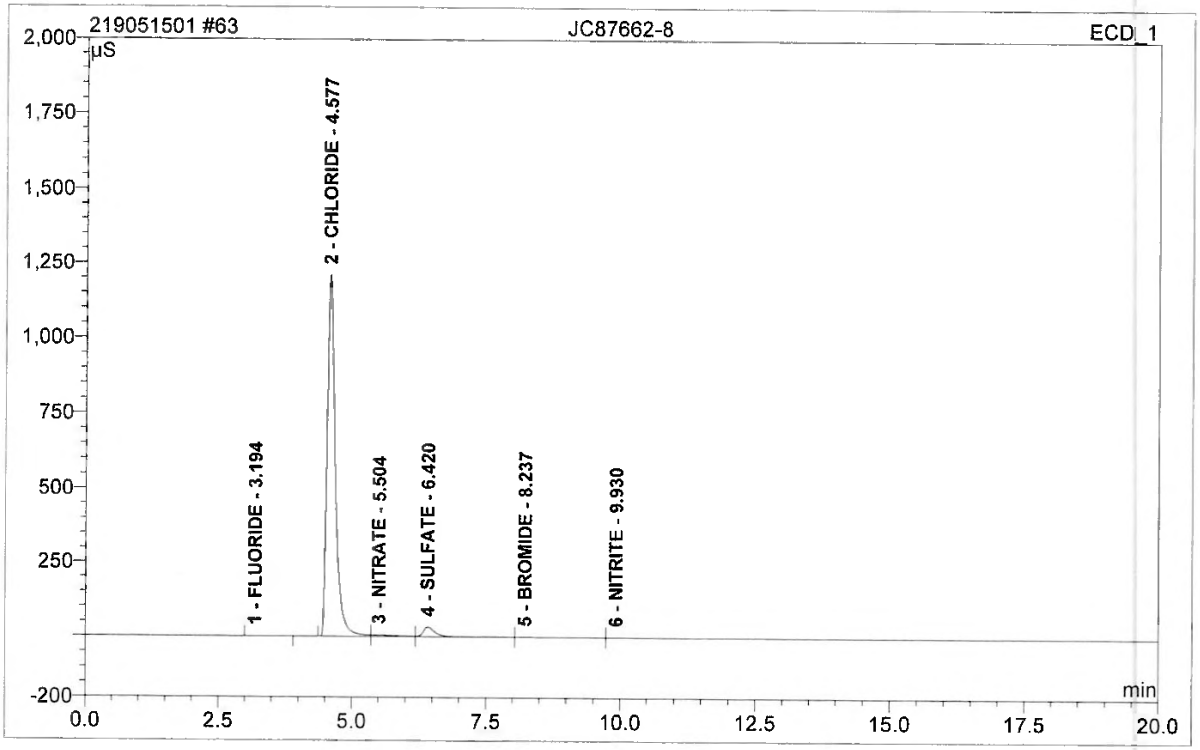
Sample Name:	**JC87662-7**	*Injection Volume:*	**20.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 6:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.666	0.120	0.04	0.254	BMB
2	4.57	CHLORIDE	1444.298	257.665	92.86	861.488	BM
3	5.46	NITRATE	5.679	2.933	1.06	4.625	M
4	6.37	SULFATE	56.985	15.880	5.72	71.231	M
5	8.23	BROMIDE	0.535	0.889	0.32	5.974	MB
Total:			1508.163	277.486	100.00	943.571	

63 JC87662-8

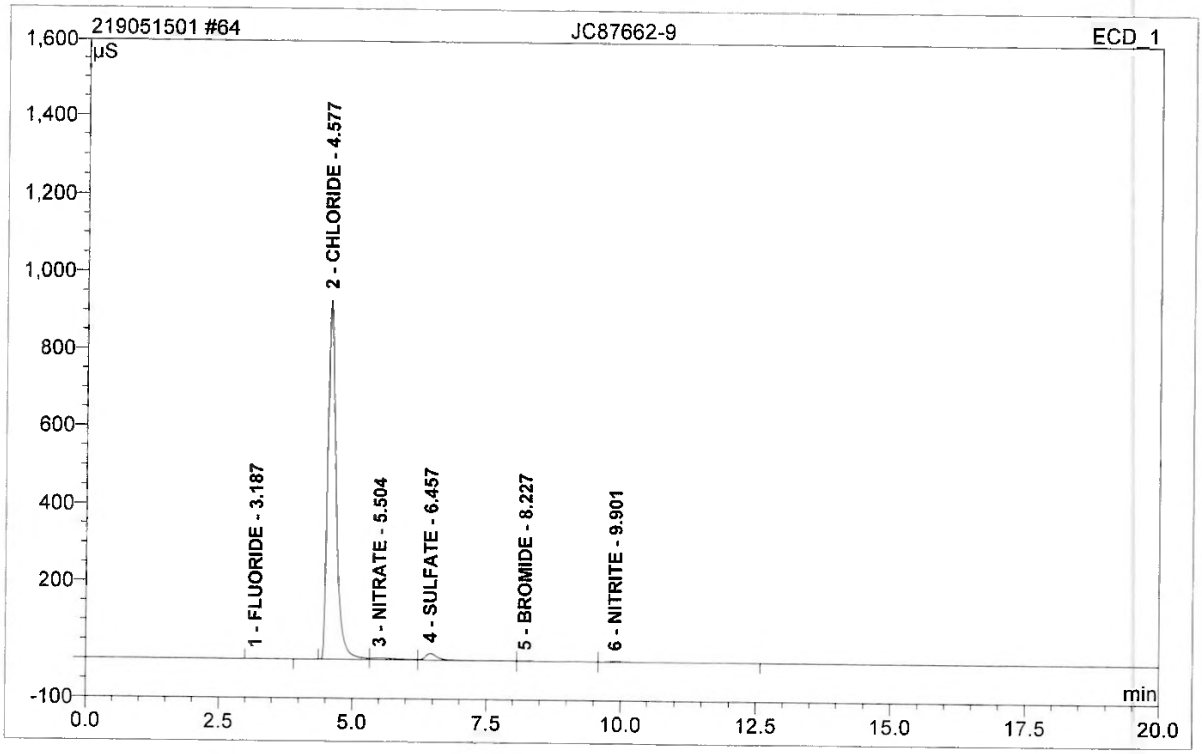
Sample Name:	**JC87662-8**	*Injection Volume:*	**20.0**
Vial Number:	**4**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 7:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.337	0.066	0.03	0.140	BMB
2	4.58	CHLORIDE	1209.938	215.809	94.55	721.545	BM
3	5.50	NITRATE	4.804	2.549	1.12	4.019	M
4	6.42	SULFATE	31.476	8.705	3.81	39.049	M
5	8.24	BROMIDE	0.561	0.511	0.22	3.433	M
6	9.93	NITRITE	0.208	0.610	0.27	0.870	MB
Total:			1247.323	228.249	100.00	769.056	

64 JC87662-9

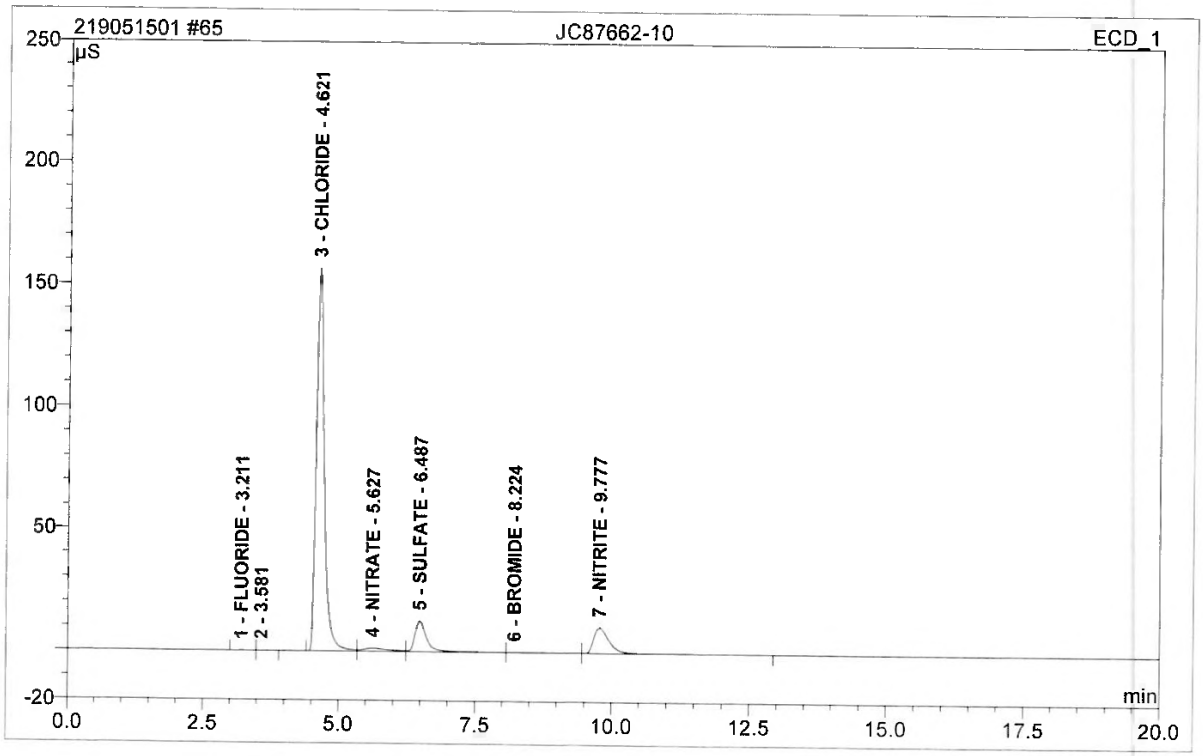
Sample Name:	**JC87662-9**	*Injection Volume:*	**20.0**
Vial Number:	**5**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 7:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.395	0.075	0.04	0.158	BMB
2	4.58	CHLORIDE	928.878	168.552	95.16	563.544	BM
3	5.50	NITRATE	4.613	2.564	1.45	4.043	M
4	6.46	SULFATE	17.767	5.049	2.85	22.646	M
5	8.23	BROMIDE	0.333	0.310	0.17	2.082	M
6	9.90	NITRITE	1.534	0.569	0.32	0.812	MB
Total:			953.520	177.118	100.00	593.285	

65 JC87662-10

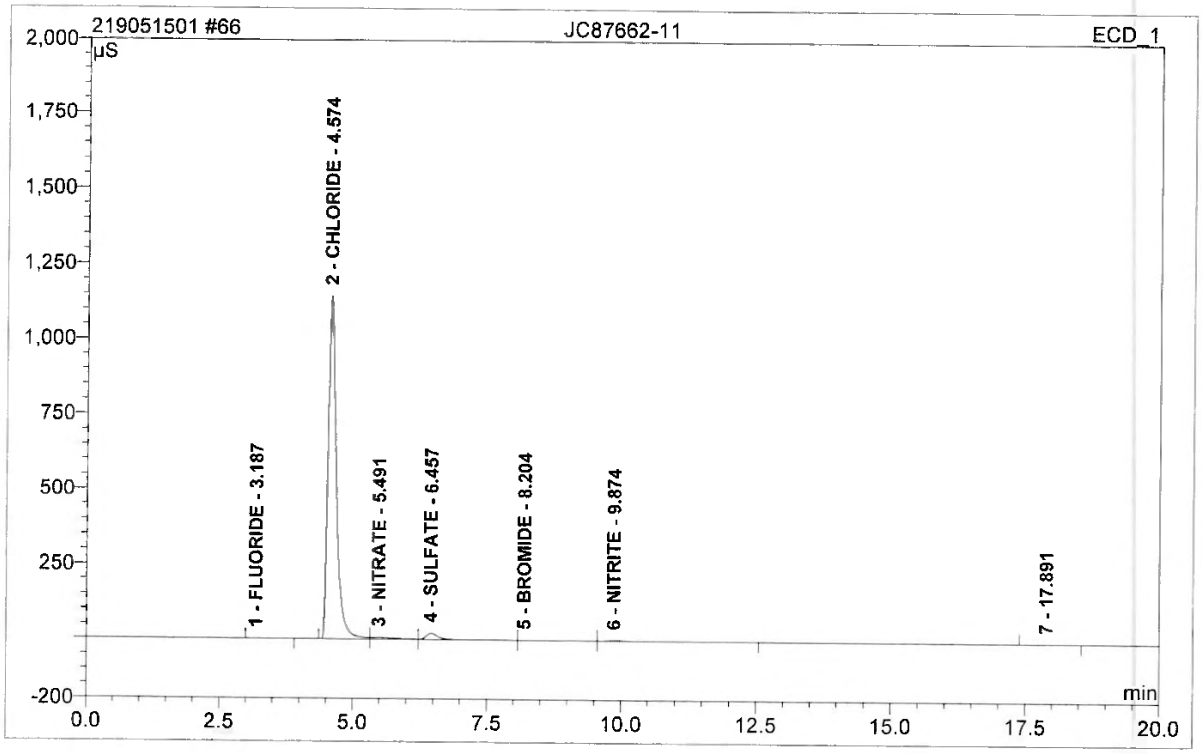
Sample Name:	**JC87662-10**	*Injection Volume:*	**20.0**
Vial Number:	**6**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 8:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	0.064	0.016	0.05	0.035	BM
2	3.58	n.a.	0.022	0.005	0.01	n.a.	MB
3	4.62	CHLORIDE	156.637	26.691	78.26	89.238	BM
4	5.63	NITRATE	1.301	0.682	2.00	1.076	M
5	6.49	SULFATE	12.400	3.193	9.36	14.324	M
6	8.22	BROMIDE	0.109	0.086	0.25	0.580	M
7	9.78	NITRITE	10.396	3.433	10.07	4.897	MB
Total:			180.928	34.107	100.00	110.149	

66 JC87662-11

Sample Name:	**JC87662-11**	*Injection Volume:*	**20.0**
Vial Number:	**7**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 8:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

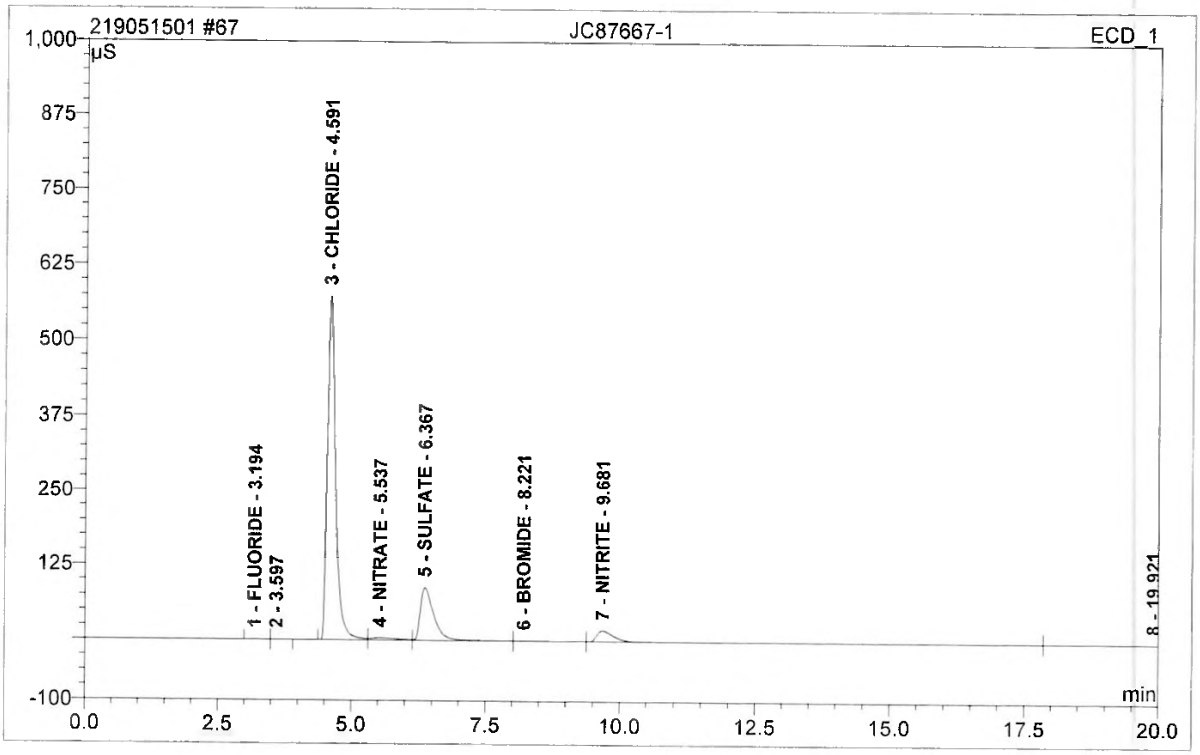


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.228	0.046	0.02	0.097	BMB
2	4.57	CHLORIDE	1143.505	205.034	95.29	685.518	BM
3	5.49	NITRATE	5.308	2.993	1.39	4.719	M
4	6.46	SULFATE	21.082	6.008	2.79	26.949	M
5	8.20	BROMIDE	0.366	0.348	0.16	2.337	M
6	9.87	NITRITE	2.046	0.737	0.34	1.051	MB
7	17.89	n.a.	0.003	0.002	0.00	n.a.	BMB
Total:			1172.539	215.167	100.00	720.672	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

67 JC87667-1

Sample Name:	**JC87667-1**	*Injection Volume:*	**20.0**
Vial Number:	**8**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 8:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.19	FLUORIDE	0.548	0.091	0.07	0.192	BM
2	3.60	n.a.	0.111	0.020	0.01	n.a.	MB
3	4.59	CHLORIDE	572.820	103.073	74.67	344.619	BM
4	5.54	NITRATE	3.782	1.998	1.45	3.151	M
5	6.37	SULFATE	87.245	25.572	18.53	114.705	M
6	8.22	BROMIDE	0.594	0.380	0.28	2.556	M
7	9.68	NITRITE	18.030	6.894	4.99	9.833	M
8	19.92	n.a.	0.000	0.010	0.01	n.a.	MB
Total:			683.131	138.037	100.00	475.057	

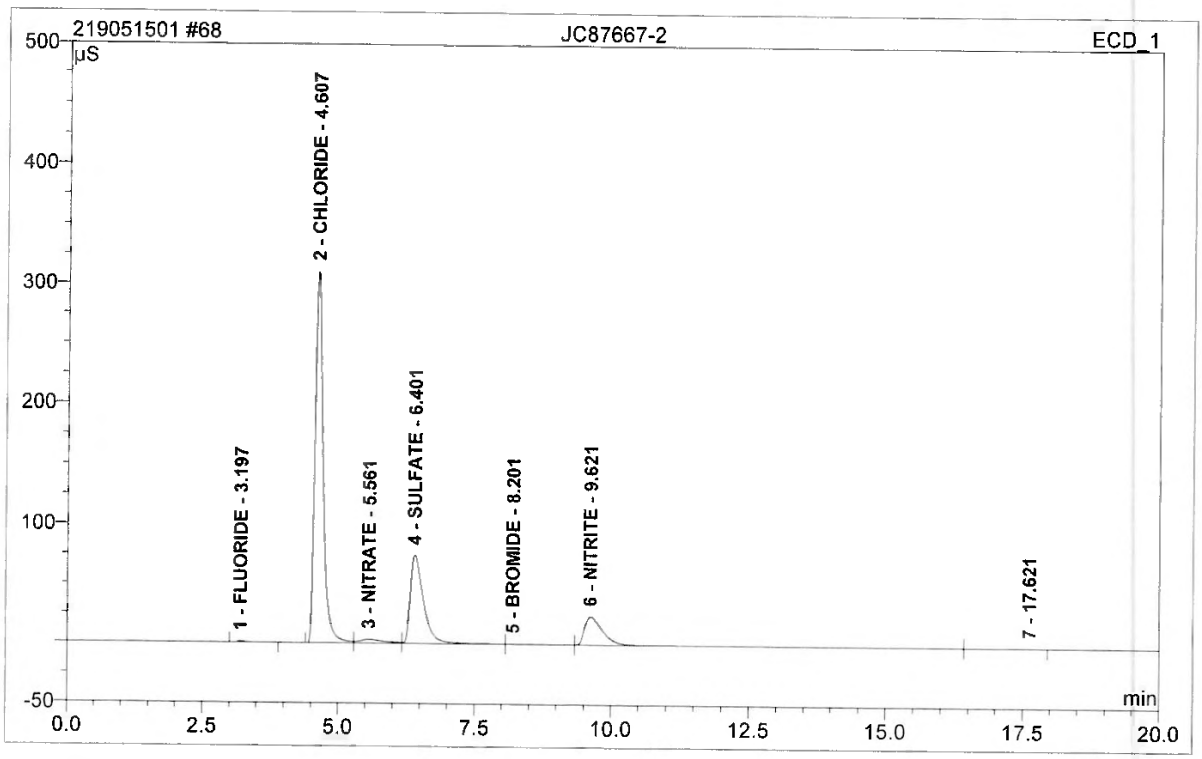
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

68 JC87667-2

Sample Name:	**JC87667-2**	*Injection Volume:*	**20.0**
Vial Number:	**9**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 9:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.901	0.155	0.18	0.329	BMB
2	4.61	CHLORIDE	310.491	54.296	62.48	181.535	BM
3	5.56	NITRATE	3.193	1.667	1.92	2.628	M
4	6.40	SULFATE	74.540	21.113	24.30	94.706	M
5	8.20	BROMIDE	0.295	0.220	0.25	1.480	M
6	9.62	NITRITE	23.928	9.448	10.87	13.476	M
7	17.62	n.a.	0.001	0.002	0.00	n.a.	MB
Total:			413.349	86.900	100.00	294.154	

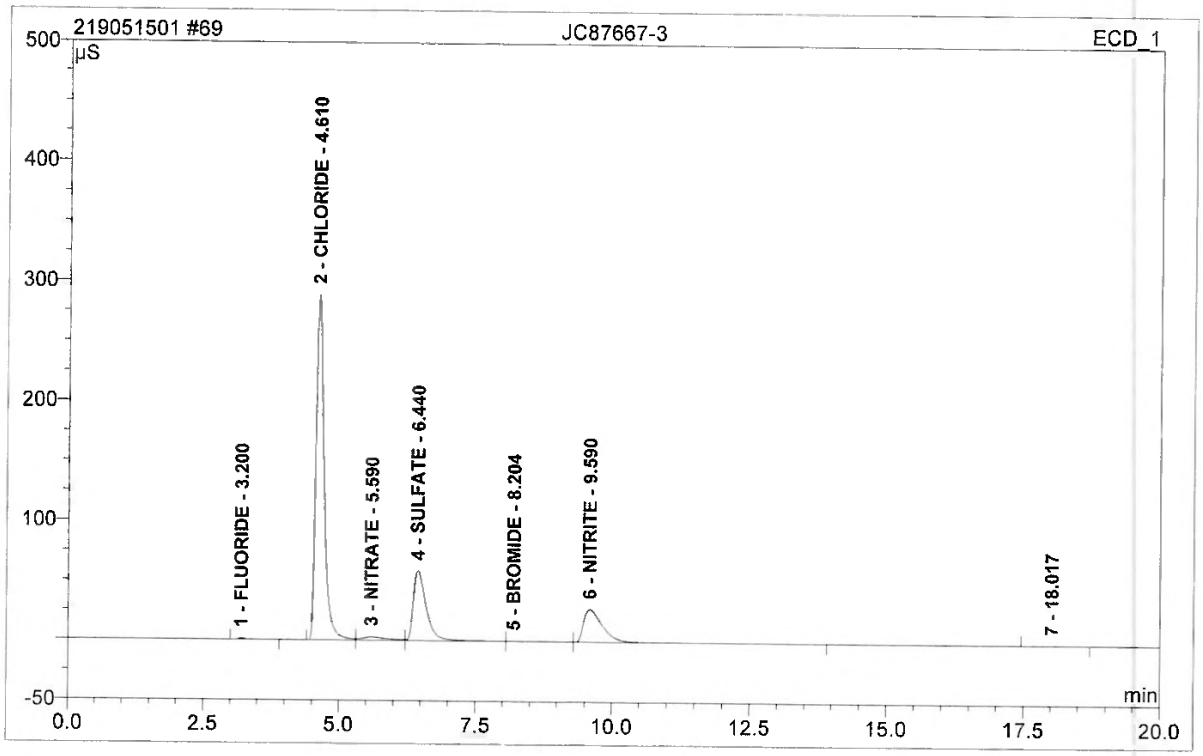
anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

69 JC87667-3

Sample Name:	**JC87667-3**	*Injection Volume:*	**20.0**
Vial Number:	**10**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 9:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



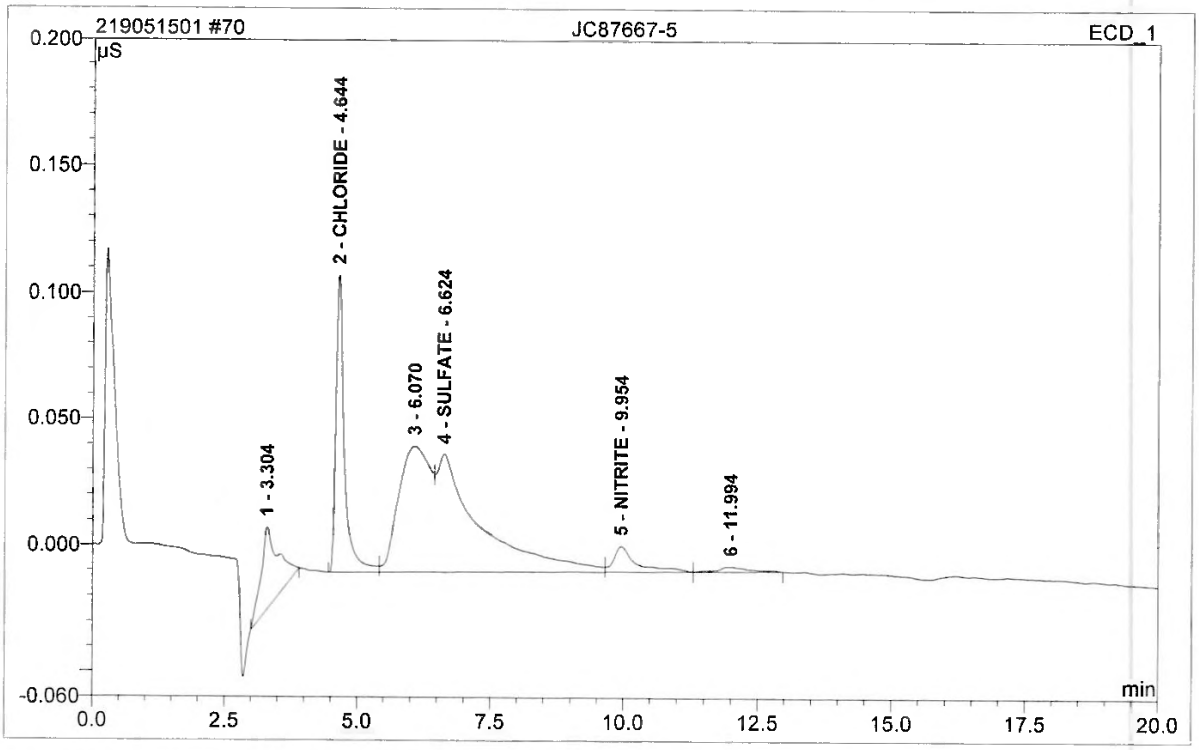
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.876	0.152	0.19	0.323	BMB
2	4.61	CHLORIDE	288.648	50.477	63.47	168.766	BM
3	5.59	NITRATE	2.797	1.453	1.83	2.292	M
4	6.44	SULFATE	59.127	16.209	20.38	72.708	M
5	8.20	BROMIDE	0.259	0.185	0.23	1.246	M
6	9.59	NITRITE	27.322	11.054	13.90	15.768	MB
7	18.02	n.a.	0.002	0.001	0.00	n.a.	BMB
Total:			379.032	79.532	100.00	261.103	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

70 JC87667-5

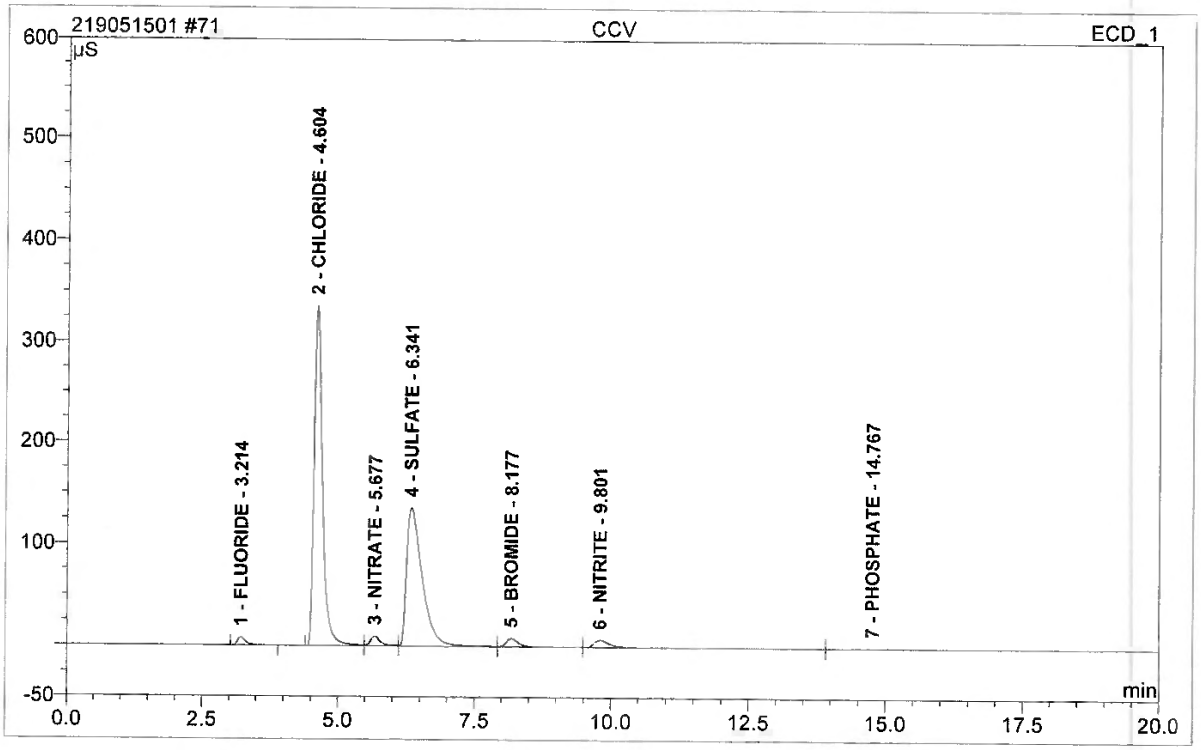
Sample Name:	**JC87667-5**	*Injection Volume:*	**20.0**
Vial Number:	**11**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 10:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.30	n.a.	0.032	0.012	9.82	n.a.	BMB
2	4.64	CHLORIDE	0.118	0.022	18.35	0.074	BM
3	6.07	n.a.	0.050	0.034	28.49	n.a.	M
4	6.62	SULFATE	0.047	0.045	37.58	0.203	M
5	9.95	NITRITE	0.010	0.005	4.45	0.008	M
6	11.99	n.a.	0.002	0.002	1.30	n.a.	MB
Total:			0.260	0.120	100.00	0.285	

71 CCV

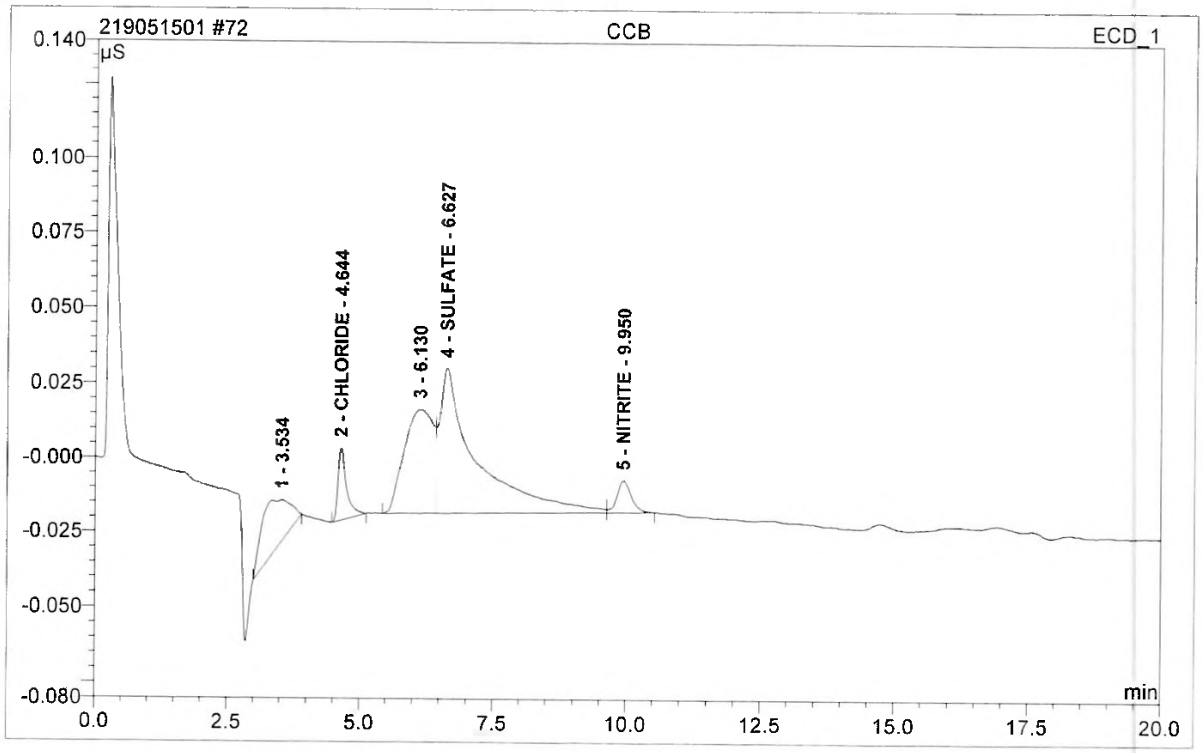
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**12**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 10:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	7.574	1.351	1.20	2.869	BMB
2	4.60	CHLORIDE	335.669	59.684	52.81	199.549	BM
3	5.68	NITRATE	9.375	2.032	1.80	3.204	M
4	6.34	SULFATE	135.777	44.799	39.64	200.949	M
5	8.18	BROMIDE	7.952	2.161	1.91	14.528	M
6	9.80	NITRITE	6.944	2.358	2.09	3.363	M
7	14.77	PHOSPHATE	0.324	0.626	0.55	25.542	MB
Total:			503.615	113.011	100.00	450.004	

72 CCB

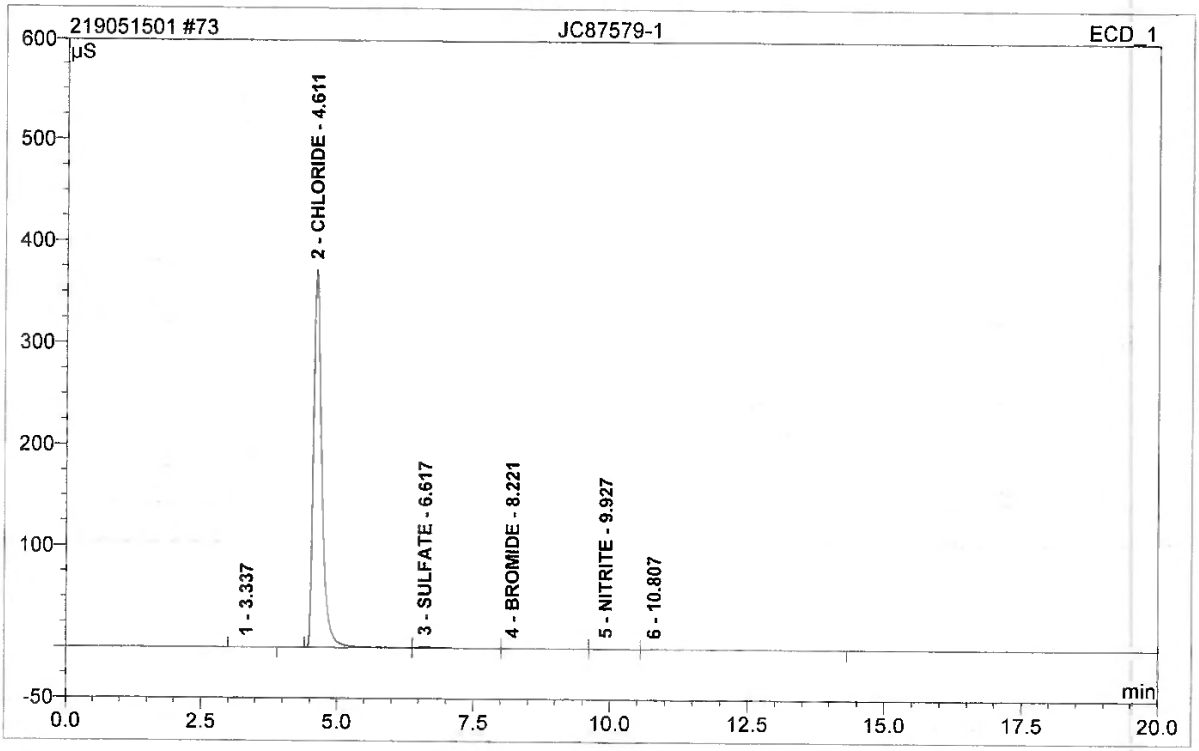
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**13**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 10:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.53	n.a.	0.014	0.010	12.68	n.a.	BMB
2	4.64	CHLORIDE	0.024	0.005	5.70	0.015	BMB
3	6.13	n.a.	0.035	0.022	27.58	n.a.	BM
4	6.63	SULFATE	0.049	0.040	49.70	0.177	M
5	9.95	NITRITE	0.011	0.003	4.34	0.005	MB
Total:			0.133	0.080	100.00	0.197	

73 JC87579-1

Sample Name:	**JC87579-1**	*Injection Volume:*	**20.0**
Vial Number:	**14**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**25.0000**
Recording Time:	**5/16/2019 11:43**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



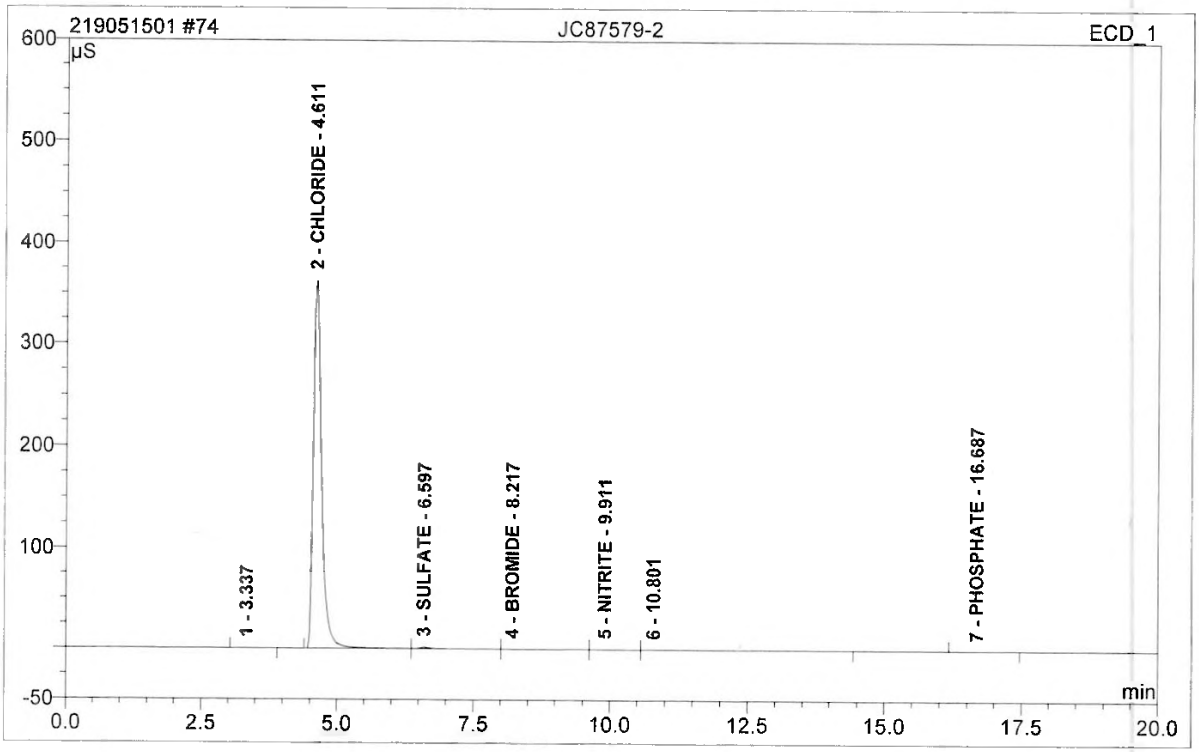
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.34	n.a.	0.079	0.026	0.04	n.a.	BMB
2	4.61	CHLORIDE	371.675	67.264	98.76	5622.306	BM
3	6.62	SULFATE	1.608	0.582	0.85	65.220	M
4	8.22	BROMIDE	0.129	0.118	0.17	19.844	M
5	9.93	NITRITE	0.123	0.061	0.09	2.190	M
6	10.81	n.a.	0.041	0.057	0.08	n.a.	MB
Total:			373.655	68.108	100.00	5709.560	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

74 JC87579-2

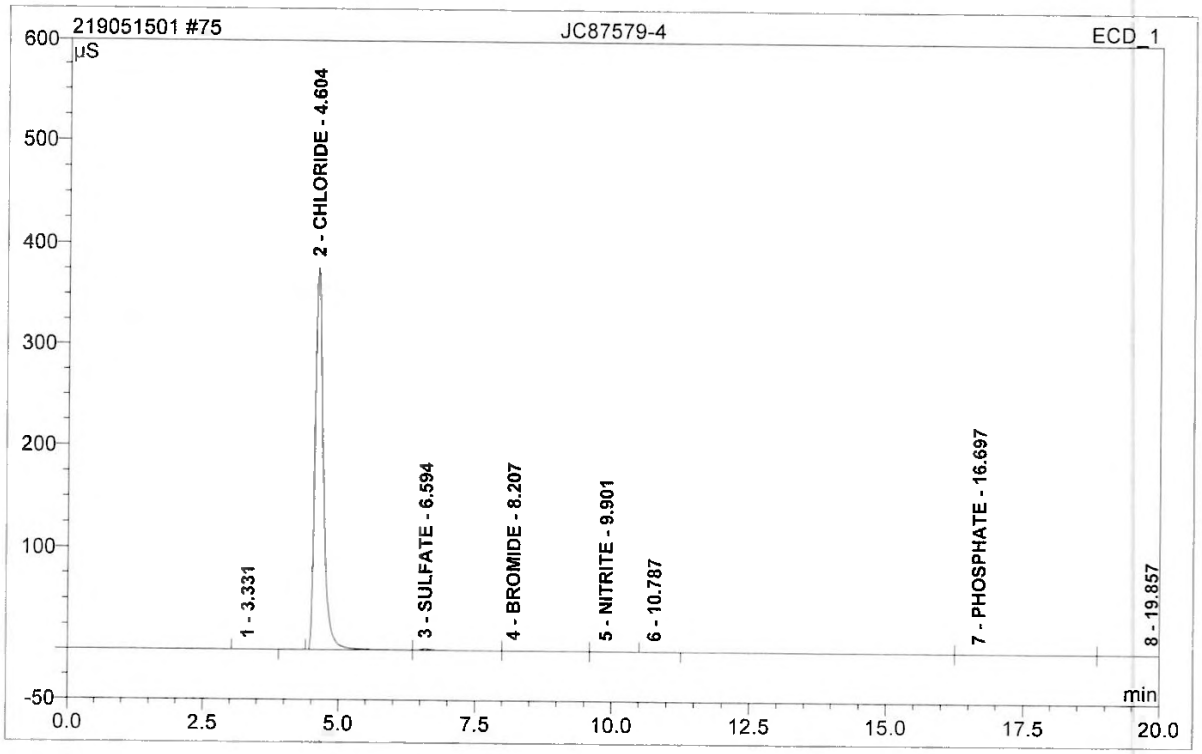
Sample Name:	**JC87579-2**	*Injection Volume:*	**20.0**
Vial Number:	**15**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**25.0000**
Recording Time:	**5/16/2019 12:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.34	n.a.	0.098	0.034	0.05	n.a.	BMB
2	4.61	CHLORIDE	362.499	65.061	98.89	5438.173	BM
3	6.60	SULFATE	1.369	0.492	0.75	55.186	M
4	8.22	BROMIDE	0.113	0.104	0.16	17.410	M
5	9.91	NITRITE	0.077	0.045	0.07	1.611	M
6	10.80	n.a.	0.038	0.052	0.08	n.a.	MB
7	16.69	PHOSPHATE	0.007	0.004	0.01	3.944	BMB
Total:			364.201	65.792	100.00	5516.324	

75 JC87579-4

Sample Name:	**JC87579-4**	*Injection Volume:*	**20.0**
Vial Number:	**16**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**25.0000**
Recording Time:	**5/16/2019 13:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

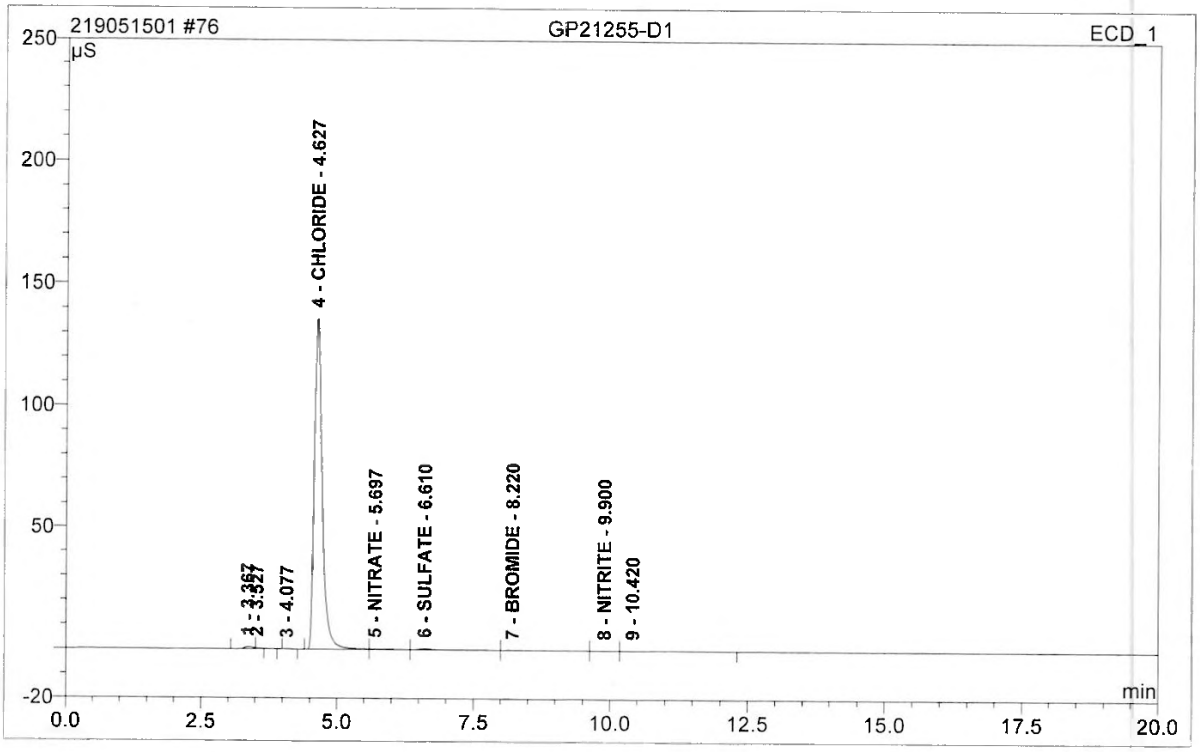


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.33	n.a.	0.109	0.037	0.05	n.a.	BMB
2	4.60	CHLORIDE	376.417	67.561	98.70	5647.157	BM
3	6.59	SULFATE	1.432	0.522	0.76	58.482	M
4	8.21	BROMIDE	0.125	0.122	0.18	20.496	M
5	9.90	NITRITE	0.094	0.188	0.27	6.693	M
6	10.79	n.a.	0.012	0.004	0.01	n.a.	Rd
7	16.70	PHOSPHATE	0.014	0.018	0.03	18.144	M
8	19.86	n.a.	0.003	0.003	0.00	n.a.	MB
Total:			378.206	68.454	100.00	5750.973	

76 GP21255-D1

JC87644-1

Sample Name:	**GP21255-D1**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/16/2019 14:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



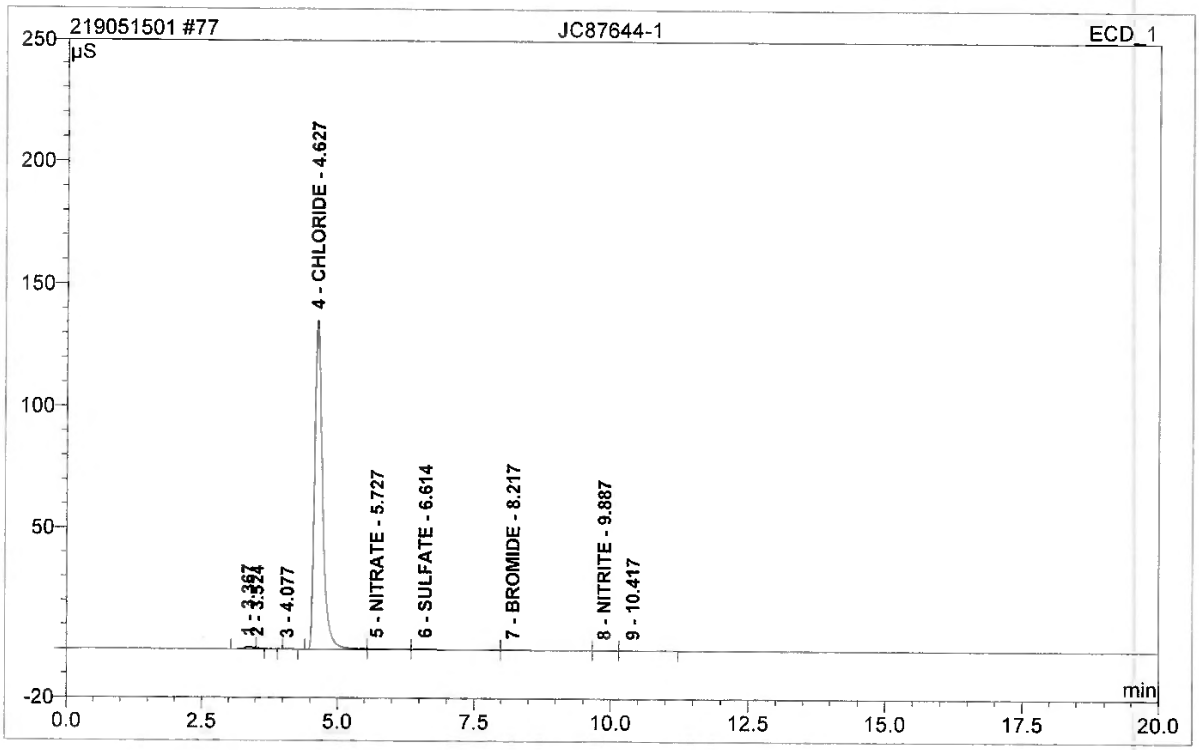
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.37	n.a.	0.899	0.232	0.98	n.a.	BMB
2	3.53	n.a.	0.034	0.005	0.02	n.a.	Rd
3	4.08	n.a.	0.012	0.002	0.01	n.a.	BMB
4	4.63	CHLORIDE	135.899	23.046	97.53	770.520	BM
5	5.70	NITRATE	0.256	0.131	0.56	2.070	M
6	6.61	SULFATE	0.404	0.164	0.69	7.337	M
7	8.22	BROMIDE	0.038	0.032	0.14	2.151	M
8	9.90	NITRITE	0.017	0.007	0.03	0.105	M
9	10.42	n.a.	0.013	0.011	0.05	n.a.	MB
Total:			137.573	23.629	100.00	782.183	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

77 JC87644-1

Sample Name:	**JC87644-1**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**10.0000**
Recording Time:	**5/16/2019 14:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



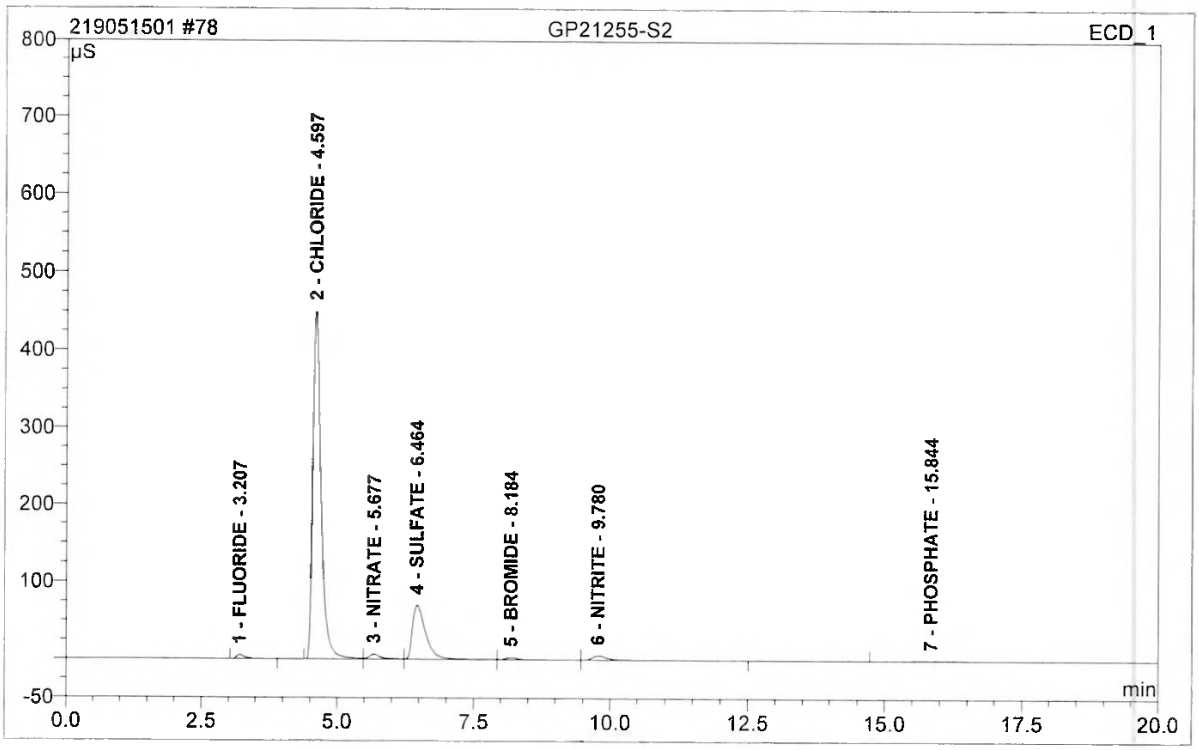
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.37	n.a.	0.891	0.229	0.97	n.a.	BMB
2	3.52	n.a.	0.028	0.005	0.02	n.a.	Rd
3	4.08	n.a.	0.013	0.002	0.01	n.a.	BMB
4	4.63	CHLORIDE	135.497	22.997	97.48	768.885	BM
5	5.73	NITRATE	0.302	0.162	0.69	2.561	M
6	6.61	SULFATE	0.396	0.159	0.67	7.139	M
7	8.22	BROMIDE	0.037	0.029	0.12	1.933	M
8	9.89	NITRITE	0.012	0.005	0.02	0.064	M
9	10.42	n.a.	0.009	0.004	0.02	n.a.	MB
Total:			137.184	23.592	100.00	780.582	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

78 GP21255-S2

Sample Name:	**GP21255-S2**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**20.0000**
Recording Time:	**5/16/2019 15:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



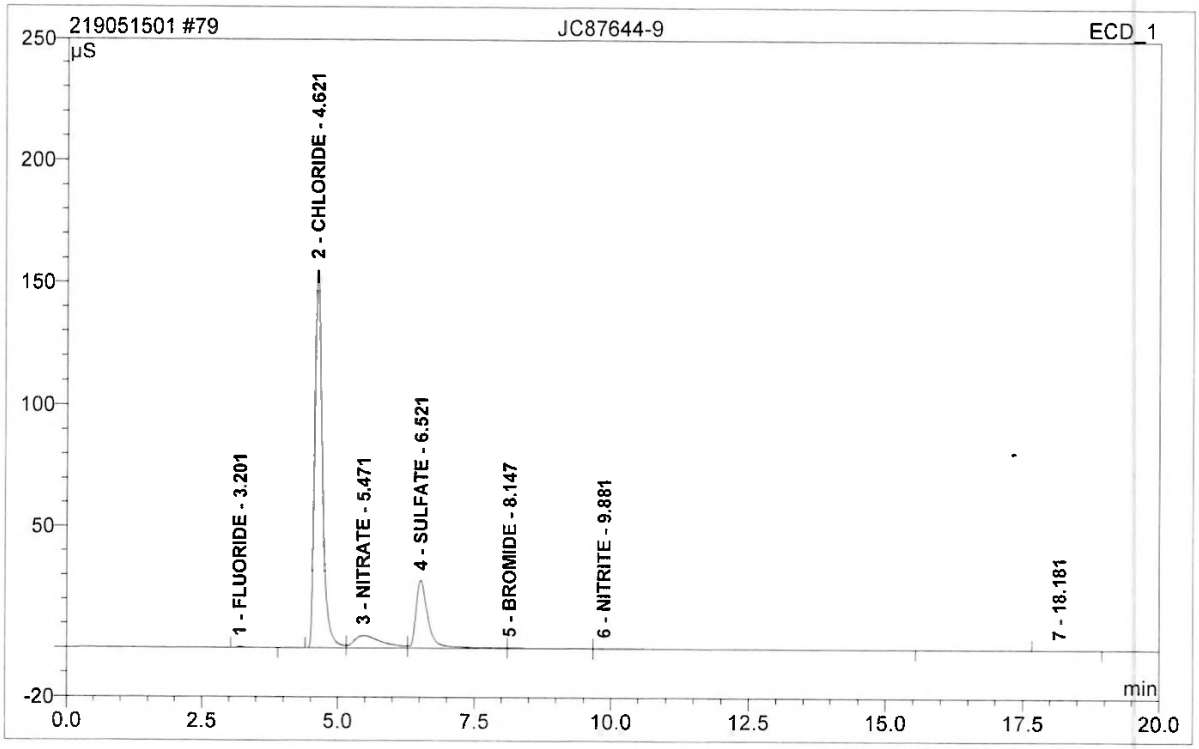
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	5.097	0.875	0.83	37.151	BMB
2	4.60	CHLORIDE	450.096	80.543	76.36	5385.820	BM
3	5.68	NITRATE	6.481	1.584	1.50	49.953	M
4	6.46	SULFATE	70.112	19.617	18.60	1759.881	M
5	8.18	BROMIDE	2.697	0.774	0.73	104.058	M
6	9.78	NITRITE	5.542	1.715	1.63	48.926	MB
7	15.84	PHOSPHATE	0.147	0.365	0.35	297.249	BMB
Total:			540.170	105.472	100.00	7683.037	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

79 JC87644-9

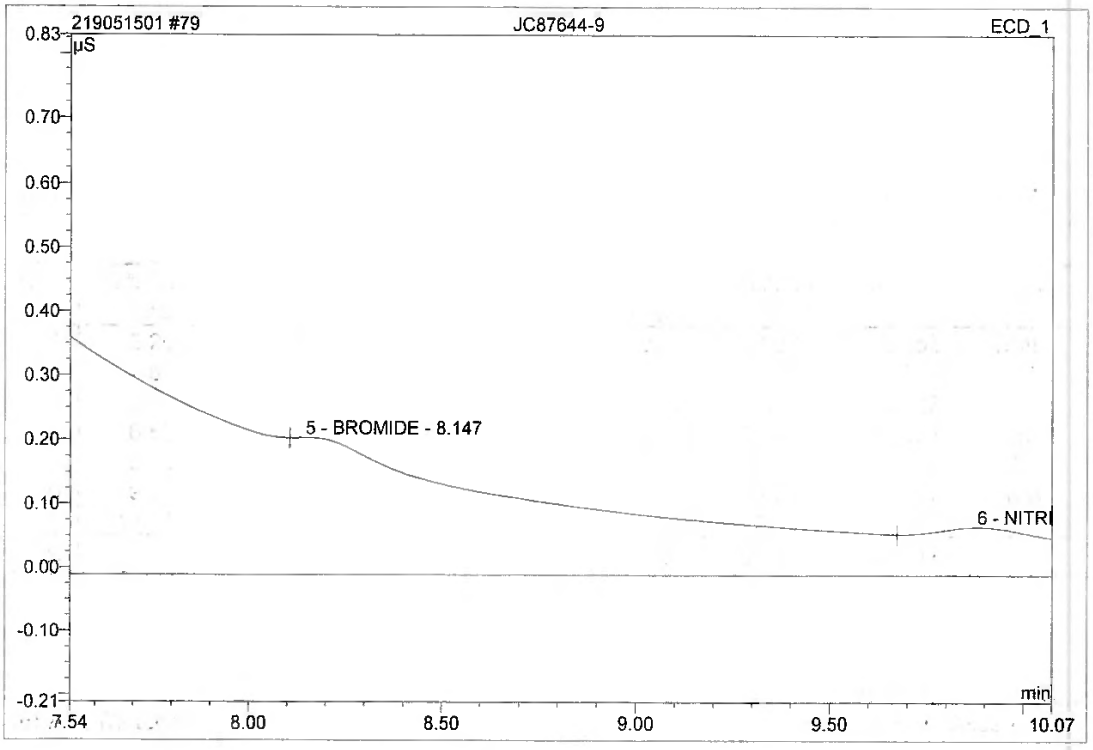
Sample Name:	**JC87644-9**	*Injection Volume:*	**20.0**
Vial Number:	**20**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 15:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.334	0.072	0.20	0.153	BMB
2	4.62	CHLORIDE	155.318	25.786	70.92	86.215	BM
3	5.47	NITRATE	5.051	2.972	8.17	4.686	M
4	6.52	SULFATE	27.723	7.208	19.82	32.331	M
5	8.15	BROMIDE	0.215	0.184	0.51	1.237	M
6	9.88	NITRITE	0.077	0.138	0.38	0.197	MB
7	18.18	n.a.	0.002	0.001	0.00	n.a.	BMB
Total:			188.720	36.360	100.00	124.817	

79 JC87644-9

Sample Name:	**JC87644-9**	*Injection Volume:*	**20.0**
Vial Number:	**20**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 15:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



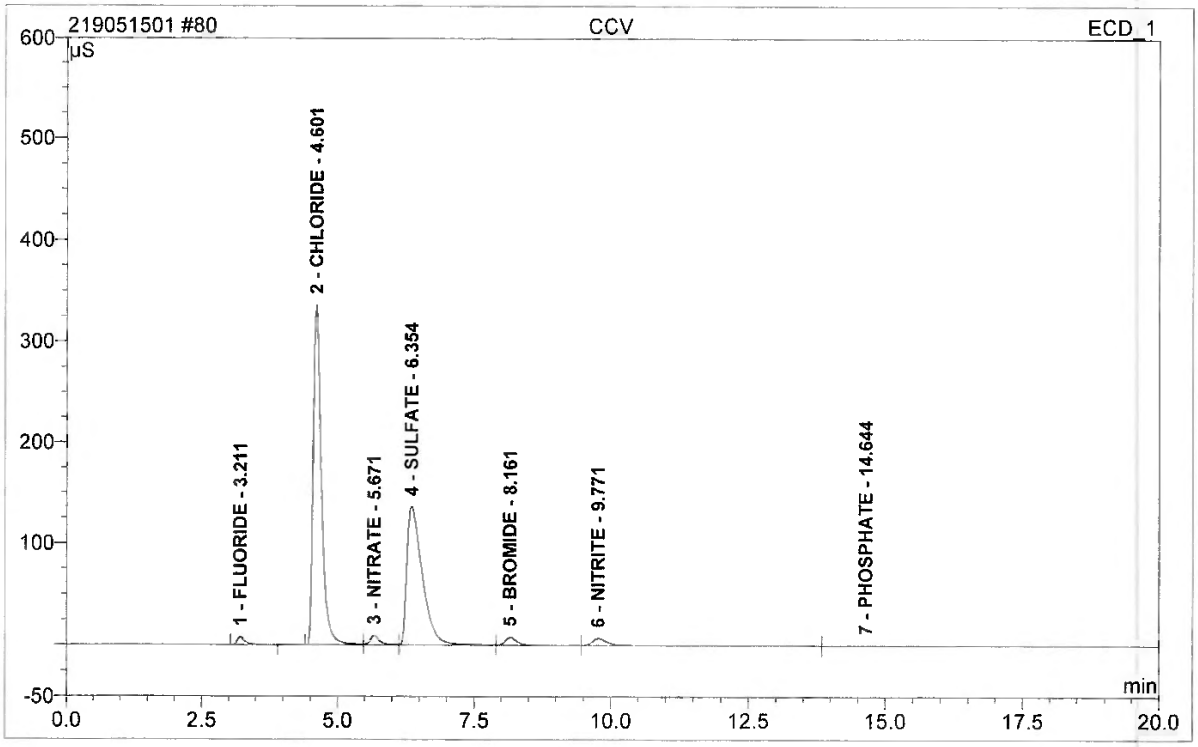
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	FLUORIDE	0.334	0.072	0.20	0.153	BMB
2	4.62	CHLORIDE	155.318	25.786	70.92	86.215	BM
3	5.47	NITRATE	5.051	2.972	8.17	4.686	M
4	6.52	SULFATE	27.723	7.208	19.82	32.331	M
5	8.15	BROMIDE	0.215	0.184	0.51	1.237	M
6	9.88	NITRITE	0.077	0.138	0.38	0.197	MB
7	18.18	n.a.	0.002	0.001	0.00	n.a.	BMB
Total:			188.720	36.360	100.00	124.817	

DEFAULT/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR9a Build 2680 (163077)

80 CCV

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**21**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 15:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**

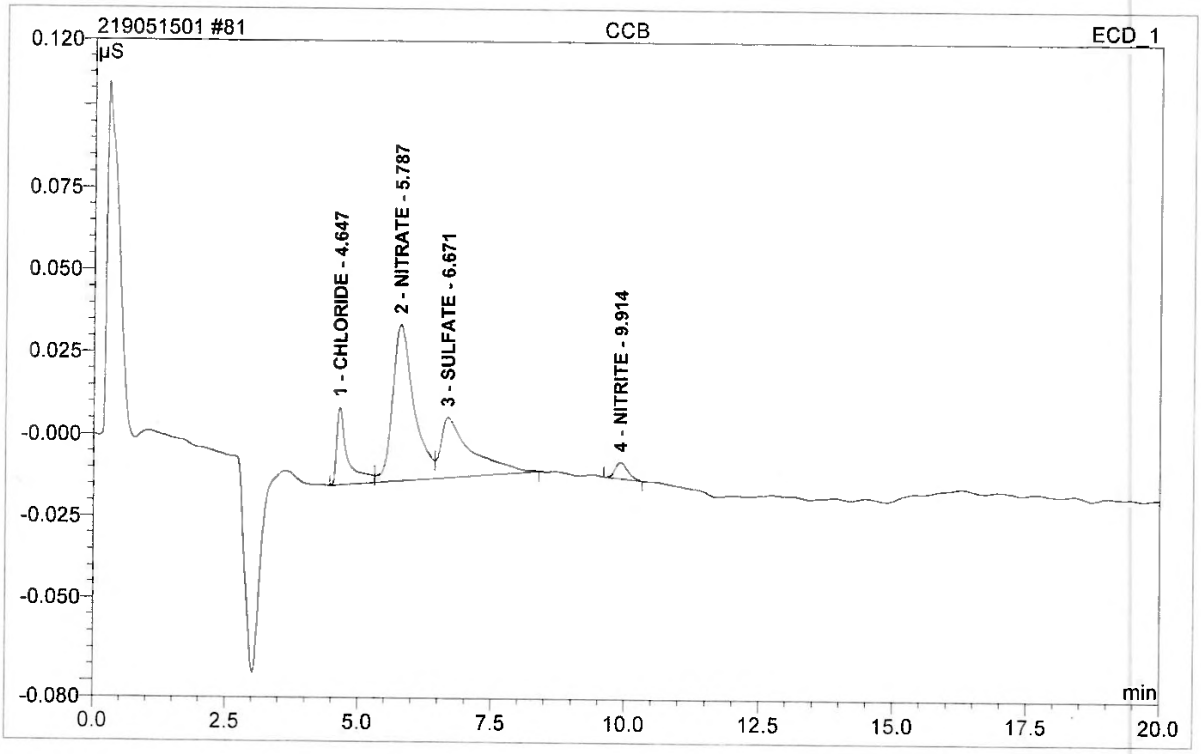


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.21	FLUORIDE	7.602	1.297	1.16	2.756	BMB
2	4.60	CHLORIDE	336.154	59.307	53.03	198.290	BM
3	5.67	NITRATE	9.120	1.939	1.73	3.058	M
4	6.35	SULFATE	136.044	44.422	39.72	199.261	M
5	8.16	BROMIDE	7.701	2.038	1.82	13.701	M
6	9.77	NITRITE	6.839	2.229	1.99	3.179	M
7	14.64	PHOSPHATE	0.345	0.608	0.54	24.781	MB
Total:			503.804	111.841	100.00	445.025	

Operator:chemistry Timebase:ACCUTEST_SYS#2 Sequence:219051501

81 CCB

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**22**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions3_ASDV**	*Bandwidth:*	**n.a.**
Quantif. Method:	**System3Anions**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/16/2019 16:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.65	CHLORIDE	0.023	0.006	13.77	0.019	BM
2	5.79	NITRATE	0.047	0.022	53.26	0.035	M
3	6.67	SULFATE	0.018	0.012	29.62	0.055	MB
4	9.91	NITRITE	0.005	0.001	3.35	0.002	BMB
Total:			0.094	0.041	100.00	0.110	

anions/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 SR9a Build 2680 (163077)

LABORATORY REVIEW SIGNATURE FORM
(To be stored with the raw data)

File ID: B90517W1.TXT
Analyst: CD

Date Analyzed: 05/17/19
Run ID: GN95462

Methods: SM5310 B-11

The following analyst(s) have reviewd this run and attest that, to the best of their knowledge, this documentation is complete and correct:

Analyst: CZO Date 5/20/19

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

The following supervisor or their designee has reviewed this run and attests that, to the best of their knowledge, this documentation is complete and correct:

Supervisor (or designee): _____ Date 5/20/19

	Type	Sample Name	Sample ID	Origin	Manual Diluti	Result	Comment	Status
1	Unknown	WASHCONF		TOCAQ.met	1.000	NPOC:-0.178		Completed
2	Unknown	CRI		TOCAQ.met	1.000	NPOC:0.8366		Completed
3	Unknown	HSTD		TOCAQ.met	1.000	NPOC:48.48		Completed
4	Unknown	ICV		TOCAQ.met	1.000	NPOC:18.24		Completed
5	Unknown	ICB		TOCAQ.met	1.000	NPOC:-0.138		Completed
6	Unknown	CCV		TOCAQ.met	1.000	NPOC:23.79		Completed
7	Unknown	CCB		TOCAQ.met	1.000	NPOC:-0.082		Completed
8	Unknown	SPARGERCHK		TOCAQ.met	1.000	NPOC:-0.151		Completed
9	Unknown	GP21320-MB1	TOC	TOCAQ.met	1.000	NPOC:-0.146		Completed
10	Unknown	GP21320-B1		TOCAQ.met	1.000	NPOC:9.808		Completed
11	Unknown	JC87558-2		TOCAQ.met	1.000	NPOC:8.900		Completed
12	Unknown	JC87644-1		TOCAQ.met	1.000	NPOC:37.33		Completed
13	Unknown	GP21320-S1	JC87644-1	TOCAQ.met	1.000	NPOC:46.98		Completed
14	Unknown	GP21320-MSD1	JC87644-1	TOCAQ.met	1.000	NPOC:47.06		Completed
15	Unknown	JC87644-2		TOCAQ.met	1.000	NPOC:1.315		Completed
16	Unknown	JC87644-3		TOCAQ.met	1.000	NPOC:0.9127		Completed
17	Unknown	JC87644-4		TOCAQ.met	1.000	NPOC:1.535		Completed
18	Unknown	CCVA		TOCAQ.met	1.000	NPOC:48.61		Completed
19	Unknown	CCB		TOCAQ.met	1.000	NPOC:-0.055		Completed
20	Unknown	JC87644-6		TOCAQ.met	1.000	NPOC:3.096		Completed
21	Unknown	JC87644-7		TOCAQ.met	1.000	NPOC:3.345		Completed
22	Unknown	JC87644-8		TOCAQ.met	1.000	NPOC:0.6653		Completed
23	Unknown	JC87644-9		TOCAQ.met	1.000	NPOC:3.843		Completed
24	Unknown	GP21321-MB1	TOC	TOCAQ.met	1.000	NPOC:0.2830		Completed
25	Unknown	GP21321-B1		TOCAQ.met	1.000	NPOC:9.676		Completed
26	Unknown	JC87656-2		TOCAQ.met	1.000	NPOC:7.848		Completed
27	Unknown	JC87656-3		TOCAQ.met	1.000	NPOC:2.786		Completed
28	Unknown	JC87656-4		TOCAQ.met	1.000	NPOC:1.891		Completed
29	Unknown	JC87656-6		TOCAQ.met	1.000	NPOC:0.8551		Completed
30	Unknown	CCV		TOCAQ.met	1.000	NPOC:23.88		Completed
31	Unknown	CCB		TOCAQ.met	1.000	NPOC:-0.150		Completed
32	Unknown	JC87656-7		TOCAQ.met	1.000	NPOC:1.009		Completed
33	Unknown	JC87015-8		TOCAQ.met	1.000	NPOC:3.808		Completed
34	Unknown	JC87015-10		TOCAQ.met	1.000	NPOC:7.692		Completed
35	Unknown	JC87015-12		TOCAQ.met	1.000	NPOC:55.97	over rerun 1:3	Completed
36	Unknown	JC87015-14		TOCAQ.met	1.000	NPOC:3.052		Completed
37	Unknown	JC87015-16		TOCAQ.met	1.000	NPOC:1.786		Completed
38	Unknown	GP21321-S1	JC87015-16	TOCAQ.met	1.000	NPOC:12.61		Completed
39	Unknown	GP21321-MSD1	JC87015-16	TOCAQ.met	1.000	NPOC:12.78		Completed
40	Unknown	CCVA		TOCAQ.met	1.000	NPOC:48.95		Completed
41	Unknown	CCB		TOCAQ.met	1.000	NPOC:-0.030		Completed
42	Unknown	GP21322-MB1	TOC	TOCAQ.met	1.000	NPOC:-0.185		Completed
43	Unknown	GP21322-B1		TOCAQ.met	1.000	NPOC:9.701		Completed
44	Unknown	JC87667-1		TOCAQ.met	1.000	NPOC:0.6561		Completed
45	Unknown	JC87667-2		TOCAQ.met	1.000	NPOC:0.6269		Completed
46	Unknown	GP21322-S1	JC87667-2	TOCAQ.met	1.000	NPOC:11.62		Completed
47	Unknown	GP21322-MSD1	JC87667-2	TOCAQ.met	1.000	NPOC:11.79		Completed
48	Unknown	JC87667-3		TOCAQ.met	1.000	NPOC:0.9421		Completed
49	Unknown	JC87667-5		TOCAQ.met	1.000	NPOC:0.1073		Completed
50	Unknown	CCV		TOCAQ.met	1.000	NPOC:23.86		Completed
51	Unknown	CCB		TOCAQ.met	1.000	NPOC:-0.140		Completed

5/20/2019 8:30:25 AM

GN95462 e90517w1.toc CAD 5/20/19

1/4

9.4

C:\TOC-L\Data\e90517w1.toc.tlx

	Type	Sample Name	Sample ID	Origin	Manual Diluti	Result	Comment	Status
52	Unknown	SPARGERCHK		TOCAQ.met	1.000	NPOC:-0.208		Completed

GN95462 e90517w1.toc
cJO 5/20/19

SGS

GN Batch ID: GN95462
Date: 5/17/19

Test: **Total Organic Carbon**

Product: **TOC or DOC**

Method: **SM5310 B, C, or D-11, SW846 9060M** e90517w1.toc

Note: Refer to raw data and LIMS for information not shown below.

Autosampler Position #	Sample ID	pH	Diluton Factor	Bottle #	Comments
1	WASHCONF	<2			
2	CRI				
3	HSTD				
4	ICV				
5	ICB				
6	CCV				
7	CCB				
8	SPARGERCHK				
9	GP21320 MB1	TOC			
10	GP21320 B1				
11	JC87558-2			4	
12	JC87644-1			47	
13	GP21320 S1			47	JC87644-1
14	GP21320 MSD1			47	JC87644-1
15	JC87644-2			16	
16	JC87644-3			16	
17	JC87644-4			16	
18	CCVA				
19	CCB				
20	JC87644-6			16	
21	JC87644-7			16	
22	JC87644-8			16	
23	JC87644-9			16	
24	GP21321 MB1	TOC			
25	GP21321 B1				
26	JC87656-2			5	
27	JC87656-3			5	

Analyst: CZO Date: 5/17/19 QCReviewer: _____ Date: _____

Comments: BSP: 500ul of 1000ppm KHP up to 50ml with DI H2O TV= 10 mg/L
MS/MSD: 200ul of 1000ppm KHP up to 20ml with sample TV= 10 mg/L
ICV: 5ml of 100ppm Sucrose up to 25ml with DI H2O TV=20 mg/L

Form: GN054-04
Rev. Date: 2/27/18

SGS

GN Batch ID: GN95462
Date: 5/17/19

Test: **Total Organic Carbon**

Product: **TOC or DOC**

Method: **SM5310 B, C, or D-11, SW846 9060M**

Note: Refer to raw data and LIMS for information not shown below.

Autosampler Position #	Sample ID	pH	Diluton Factor	Bottle #	Comments
28	JC87656-4	<2			
29	JC87656-6				
30	CCV				
31	CCB				
32	JC87656-7				
33	JC87015-8				
34	JC87015-10				
35	JC87015-12				
36	JC87015-14				
37	JC87015-16				
38	GP21321-S1				JC87015-16
39	GP21321-MSD1				JC87015-16
40	CCVA				
41	CCB				
42	GP21322-MB1	TOC			
43	GP21322-B1				
44	JC87667-1				
45	JC87667-2				
46	GP21322-S1				JC87667-2
47	GP21322-MSD1				JC87667-2
48	JC87667-3				
49	JC87667-5				
50	CCV				
51	CCB				
52	SPARGERCHK	↓			

Analyst: CXD Date: 5/17/19 QCReviewer: _____ Date: _____

Comments:

Form: GN054-04
Rev. Date: 2/27/18

SGS

Reagent Information Log - TOC/DOC - Water GN95462

Reagent	Reagent # or Manufacturer/Lot	Exp. Date
Potassium Hydrogen Phthlate (KHP), Stock Solution 1000 mg/L	GNE3-57653-TOC	6/28/19
Carbonate/Bicarbonate Stock Solution	GNE3-57650-TOC	6/28/19
Sparger Check Solution	GNE4-57849-TOC	5/23/19
CCV Solution	GNE4-57847-TOC	5/23/19
CCVA Solution (50 ppm)	GNE4-57848-TOC	5/23/19
Spiking Solution	GNE3-57653-TOC	6/28/19
CRI Check	GNE4-57851-TOC	5/23/19
HCl	JT Baker 0000217157	3/20/21
pH Hydron paper	hydrion 232516	11/30/19
Sucrose solution	GNE4-57845-TOC	5/23/19
DOC Filter	IC Millex lot# R8BA17691	n/a

All standards and stocks were made as described in the SOP for this method (circle one): Y or N
If no (N), see attached page for standards prep.

Form: GN087A67-04
Rev. Date: 4/6/18

SGS

GENERAL CHEMISTRY STANDARD PREPARATION LOG

PRODUCT: TOC

(GN) or GP NUMBER: GN95462

Intermediate Standard Description	Stock used to prepare standard	Stock concentration (mg/L)	Stock volume or weight used with units	Balance/ Autopipet ID (*)	Diluent	Final Volume (ml)	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
GNE3-57653-TOC	acros A0376652	KHP	2.125g	B-39	DI H_2O	1000mL	1000 ppm	6/28/19	CZD	4/25/19
GNE4-57850 TOC	GNE3 57653 TOC	1000ppm	20mL	class A pipet	↓	200mL	100 ppm	5/23/19	↓	↓
GNE4-57845-TOC	fisher 173322	sucrose	0.0474g	B-39	↓	200mL	100 ppm	↓	↓	↓

Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration (mg/L)	Intermediate or Stock volume used in ml	Balance/ Autopipet ID (*)	Diluent	Final Volume (ml)	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
KHP STDs										
GNE4-57851 TOC	GNE4-57850 TOC	100ppm	1.0	class A pipet	DI H_2O	100mL	1.0	5/23/19	CZD	4/25/19
GNE4-57852 TOC	↓	↓	2.0	↓	↓	↓	2.0	↓	↓	↓
GNE4-57853 TOC			5.0				5.0			
GNE4-57854 TOC			10.0				10.0			
GNE4-57855 TOC			20.0				20.0			
GNE4-57856 TOC			30.0				30.0			
GNE4-57857- TOC			50.0				50.0			
KHP STDs										
GNE4-57846 - TOC	acros A0383564	KHP	0.2125g	B-39	DI H_2O	100mL	100ppm	5/23/19	CZD	4/25/19
GNE4-57849 TOC	GNE4-57846 TOC	100ppm	50mL	class A pipet	↓	↓	25 ppm	↓	↓	↓
GNE4-57848 TOC	↓	↓	100mL	↓			50 ppm			

* If Class A glass pipets are used, enter an A. For balances or autopipets, then enter the appropriate Accutest ID number.

DAYT-WET-0165-05-FORM-STD PREP
REV 9/17/18

TOC-Control L Report

e90508wl toc tlx

Instr.Information

Instrument Options	TOC/ASI Sparge Kit
Catalyst	Regular Sensitivity

Cal. Curve

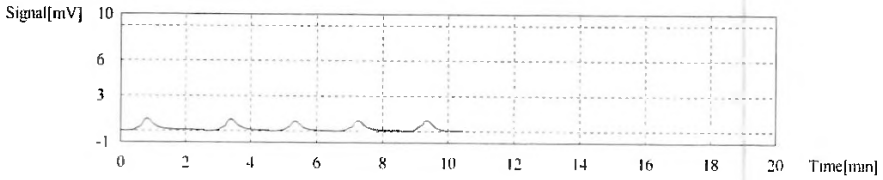
Sample Name:	Untitled
Sample ID:	Untitled
Cal Curve:	e90508wl 2019_05_08_11_23_21 cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.013	100uL	1.000	*******		5/8/2019 11:30:26 AM
2	2.706	100uL	1.000	*******		5/8/2019 11:32:45 AM
3	1.906	100uL	1.000	*******	E	5/8/2019 11:35:00 AM
4	2.458	100uL	1.000	*******		5/8/2019 11:37:28 AM
5	2.335	100uL	1.000	*******		5/8/2019 11:39:43 AM

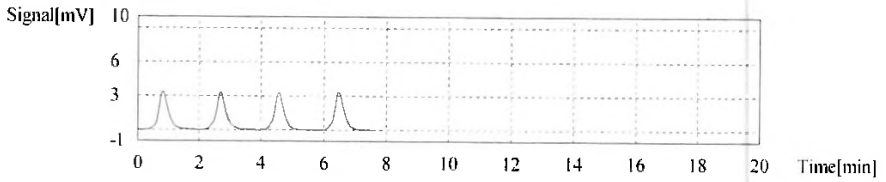
Acid Add.	0.000%
Sp Time	600.0sec
Mean Area	2.628



Conc 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.325	100uL	1.000	*******		5/8/2019 11:44:06 AM
2	7.020	100uL	1.000	*******		5/8/2019 11:46:21 AM
3	6.720	100uL	1.000	*******		5/8/2019 11:48:36 AM
4	7.045	100uL	1.000	*******		5/8/2019 11:50:51 AM

Acid Add	0.000%
Sp Time	600.0sec
Mean Area	7.027



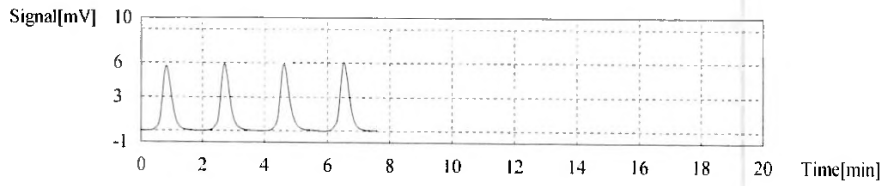
Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	12.25	100uL	1.000	*******		5/8/2019 11:55:28 AM
2	12.22	100uL	1.000	*******		5/8/2019 11:57:43 AM
3	12.39	100uL	1.000	*******		5/8/2019 11:59:58 AM
4	12.46	100uL	1.000	*******		5/8/2019 12:02:13 PM

TOC-Control L Report

e90508wl toc tlx

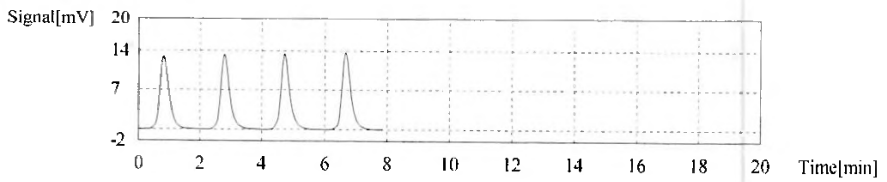
Acid Add. 0.000%
Sp Time 600.0sec
Mean Area 12.33



Conc 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	27.13	100uL	1.000	*******		5/8/2019 12:06:55 PM
2	26.84	100uL	1.000	*******		5/8/2019 12:09:14 PM
3	26.67	100uL	1.000	*******		5/8/2019 12:11:29 PM
4	27.39	100uL	1.000	*******		5/8/2019 12:13:49 PM

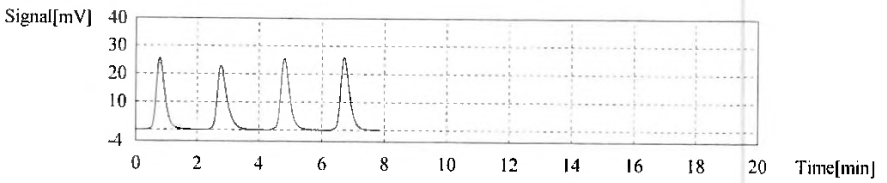
Acid Add. 0.000%
Sp Time 600.0sec
Mean Area 27.01



Conc 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	50.14	100uL	1.000	*******		5/8/2019 12:18:30 PM
2	50.65	100uL	1.000	*******		5/8/2019 12:20:52 PM
3	50.81	100uL	1.000	*******		5/8/2019 12:23:07 PM
4	52.02	100uL	1.000	*******		5/8/2019 12:25:26 PM

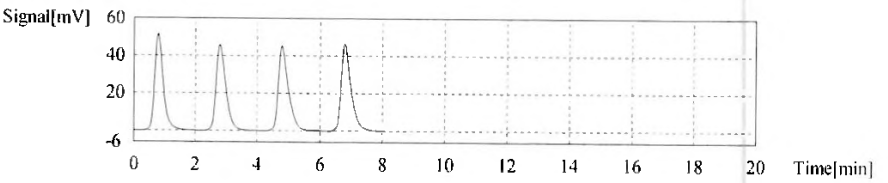
Acid Add. 0.000%
Sp Time 600.0sec
Mean Area 50.91



Conc 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	99.60	100uL	1.000	*******		5/8/2019 12:30:08 PM
2	100.5	100uL	1.000	*******		5/8/2019 12:32:29 PM
3	101.0	100uL	1.000	*******		5/8/2019 12:34:50 PM
4	100.8	100uL	1.000	*******		5/8/2019 12:37:15 PM

Acid Add. 0.000%
Sp Time 600.0sec
Mean Area 100.5



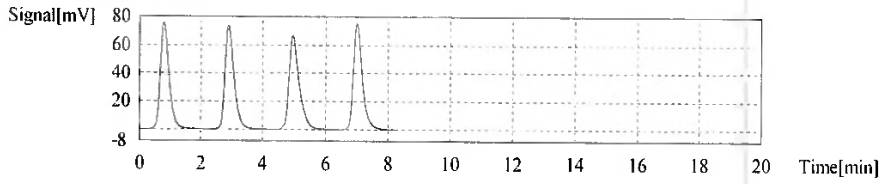
Conc 30.00mg/L

TOC-Control L Report

e90508w1.toc tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	149.5	100uL	1.000	*******		5/8/2019 12:42:03 PM
2	151.0	100uL	1.000	*******		5/8/2019 12:44:28 PM
3	150.9	100uL	1.000	*******		5/8/2019 12:46:51 PM
4	152.1	100uL	1.000	*******		5/8/2019 12:49:14 PM

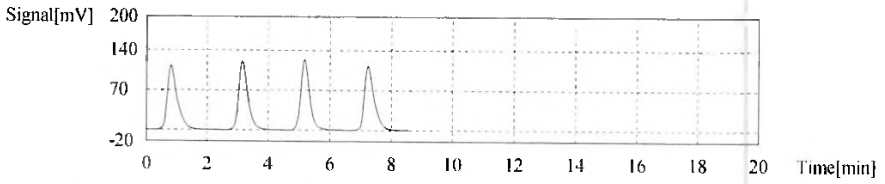
Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 150.9



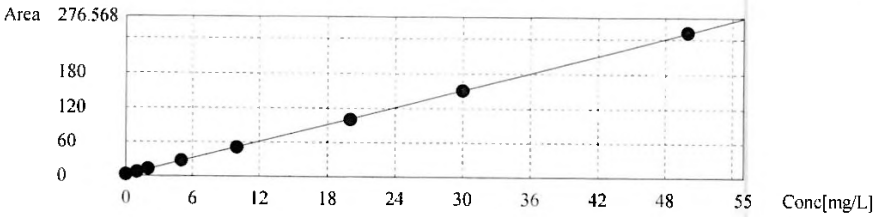
Conc 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	256.4	100uL	1.000	*******		5/8/2019 12:54:18 PM
2	251.8	100uL	1.000	*******		5/8/2019 12:56:44 PM
3	245.9	100uL	1.000	*******		5/8/2019 12:59:05 PM
4	251.6	100uL	1.000	*******		5/8/2019 1:01:33 PM

Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 251.4



Slope 4.975
Intercept 1.949
r^2 0.9999
r 1.0000
Zero Shift No



TOC-Control L Report

e90517wl toc tk

Instr.Information

Instrument Options: TOC/ASI Sparge Kit
Catalyst: Regular Sensitivity

Sample

Sample Name: WASHCONF
Sample ID:
Origin: TOCAQ met
Status: Completed
Chk Result:

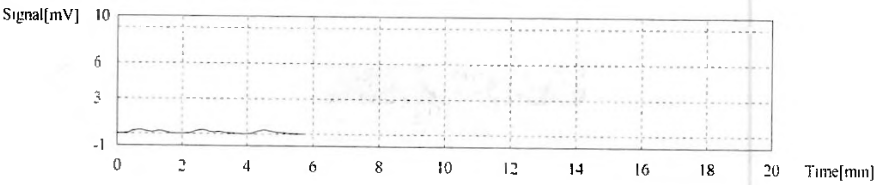
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC -0.1782mg/L

1 Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.338	-0.1228mg/L	100uL	1.000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 2:51:00 PM
2	1.024	-0.1859mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 2:53:05 PM
3	1.101	-0.1704mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 2:55:10 PM

Mean Conc. -0.1782mg/L
CV Conc -6.14%



Sample

Sample Name: CRI
Sample ID:
Origin: TOCAQ met
Status: Completed
Chk Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.8366mg/L

1 Det

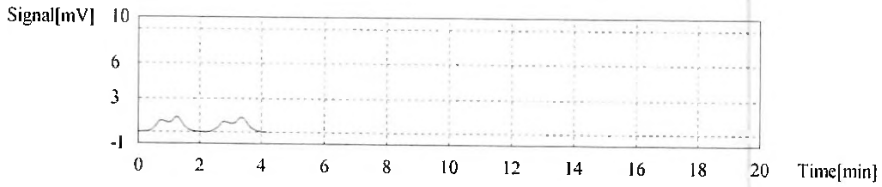
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.999	0.8140mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 3:02:17 PM
2	6.223	0.8591mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 3:04:36 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 0 8366mg L
CV Conc 3 81%



Sample

Sample Name HSTD
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

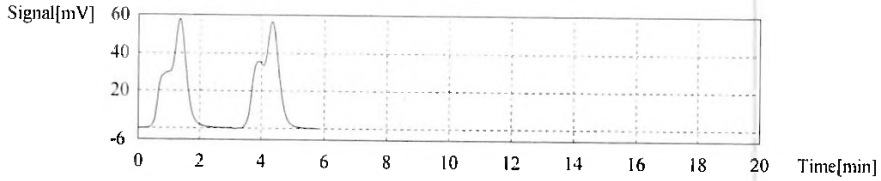
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 48 48mg/L

1. Det

Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	242 3	48 31mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 3 45 34 PM
2	244 0	48 65mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 3 48 32 PM

Mean Conc. 48 48mg/L
CV Conc 0 50%



Sample

Sample Name ICV
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 18 24mg/L

1 Det

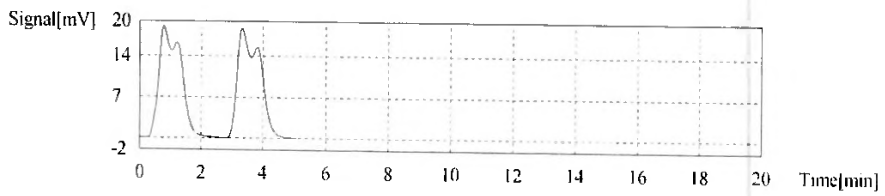
Anal. NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92 69	18 24mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 3 56 15 PM
2	92 73	18 25mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 3 58 59 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 18.24mg/L
CV Conc 0.03%



Sample

Sample Name: ICB
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

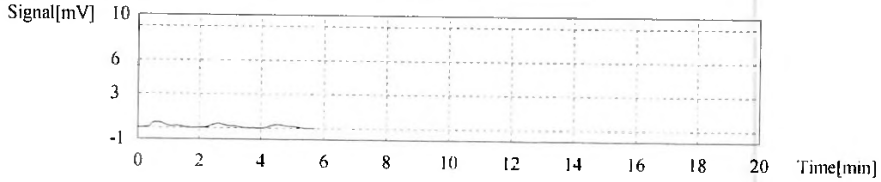
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC -0.1381mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.599	-0.07033mg/L	100uL	1.000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4:06:44 PM
2	1.332	-0.1240mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4:08:49 PM
3	1.192	-0.1521mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4:10:54 PM

Mean Conc. -0.1381mg/L
CV Conc -14.41%



Sample

Sample Name: CCV
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 23.79mg/L

1. Det

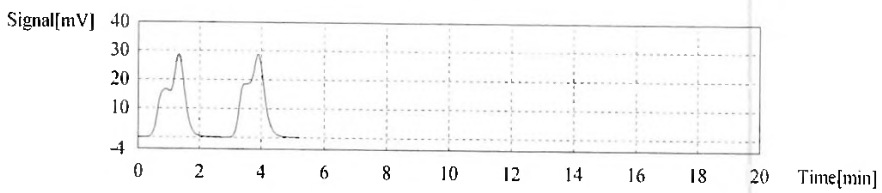
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	119.7	23.67mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4:18:39 PM
2	120.9	23.91mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4:21:27 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc 23 79mg/L
CV Conc 0 72%



Sample

Sample Name: CCB
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

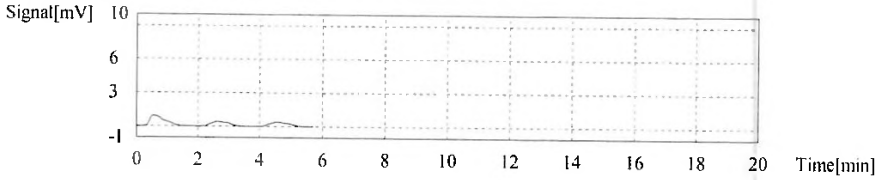
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC -0 08209mg/L

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2 940	0 1992mg/L	100uL	1 000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4 29 03 PM
2	1 541	-0 08199mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4 31 08 PM
3	1 540	-0 08219mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4 33 13 PM

Mean Conc -0 08209mg/L
CV Conc -0 17%



Sample

Sample Name: SPARGERCHK
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC -0 1518mg/L

1 Det

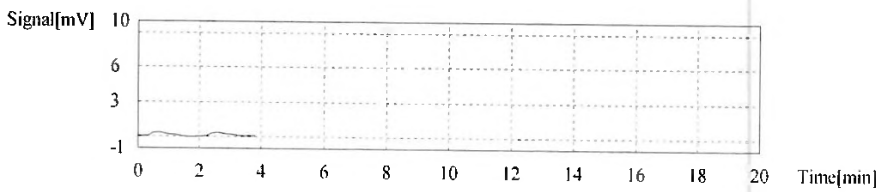
Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1 203	-0 1499mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4 40 12 PM
2	1 184	-0 1537mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4 42 17 PM

TOC-Control L Report

e90517wl toc tlx

Mean Conc. -0 1518mg/L
CV Conc -1 78%



Sample

Sample Name: GP21320-MB1
Sample ID: TOC
Origin: TOCAQ met
Status Completed
Chk Result

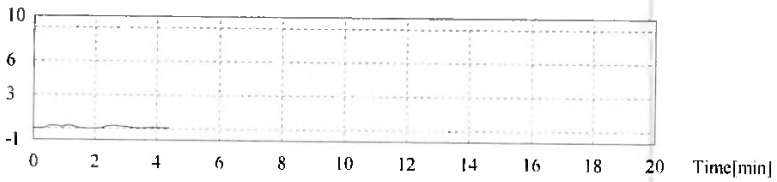
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC -0 1460mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1 253	-0 1399mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4 51 21 PM
2	1 192	-0 1521mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 4 54 03 PM

Mean Conc -0 1460mg/L
CV Conc -5 94%



Sample

Sample Name: GP21320-B1
Sample ID:
Origin: TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 9 808mg/L

1. Det

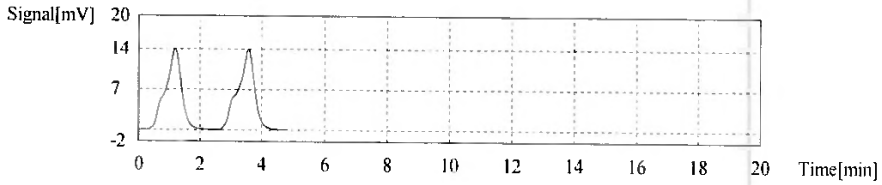
Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	50 12	9 682mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 02 57 PM
2	51 37	9 933mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 05 41 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 9 808mg/L
CV Conc 1 81%



Sample

Sample Name JC87558-2
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

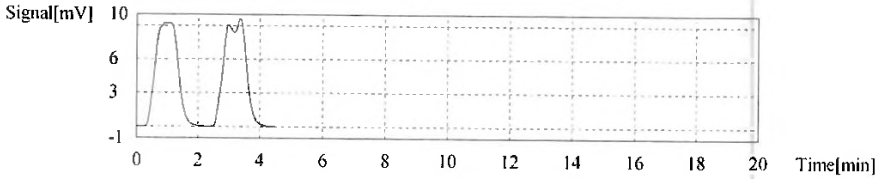
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 8 900mg/L

1 Det

Anal.. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	45 96	8 846mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 13 58 PM
2	46 50	8 955mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 16 25 PM

Mean Conc 8 900mg/L
CV Conc 0 86%



Sample

Sample Name: JC87644-1
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 37 33mg/L

1 Det

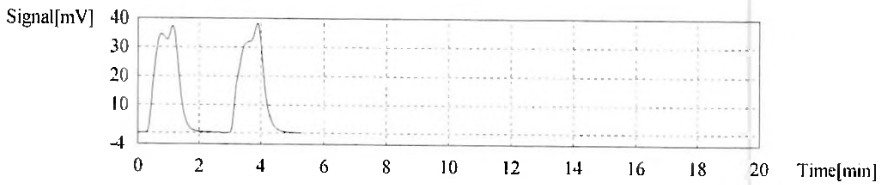
Anal.. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	187 2	37 23mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 25 38 PM
2	188 2	37 44mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 28 28 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 37 33mg/L
CV Conc 0 38%



Sample

Sample Name: GP21320-S1
Sample ID: JC87644-1
Origin: TOCAQ met
Status Completed
Chk Result

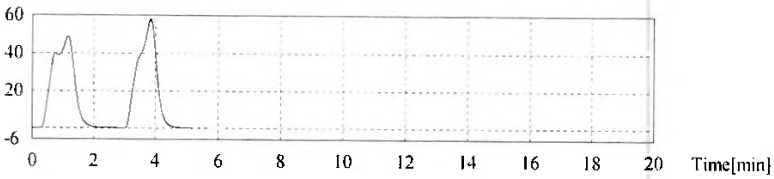
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 46 98mg/L

1. Det

Anal.. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	234 9	46 82mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 36 50 PM
2	236 5	47 14mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 39 29 PM

Mean Conc 46 98mg/L
CV Conc 0 48%



Sample

Sample Name: GP21320-MSD1
Sample ID: JC87644-1
Origin TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 47 06mg/L

1 Det

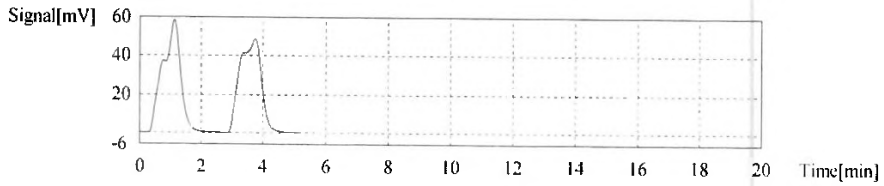
Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	235 7	46 98mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 47 49 PM
2	236 5	47 14mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 50 41 PM

TOC-Control L Report

e90517w1 loc tlx

Mean Conc. 47 06mg/L
CV Conc 0 24%



Sample

Sample Name: JC87644-2
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

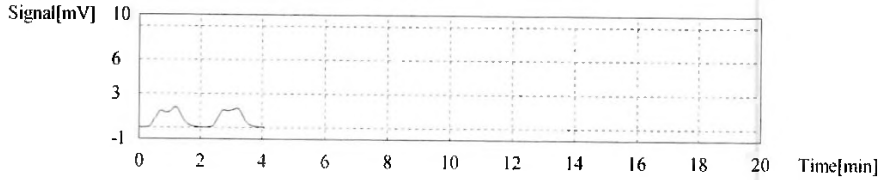
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 1 315mg/L

1 Det

Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8 582	1 333mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 5 58 26 PM
2	8 399	1 296mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6 00 38 PM

Mean Conc. 1 315mg/L
CV Conc 1 98%



Sample

Sample Name: JC87644-3
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 0 9127mg/L

1 Det

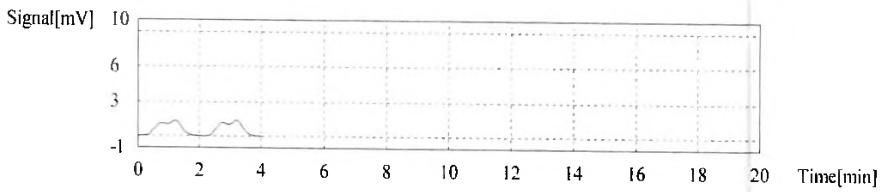
Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6 377	0 8900mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6 09 34 PM
2	6 603	0 9354mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6 11 46 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 0 9127mg/L
CV Conc 3 52%



Sample

Sample Name JC87644-4
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

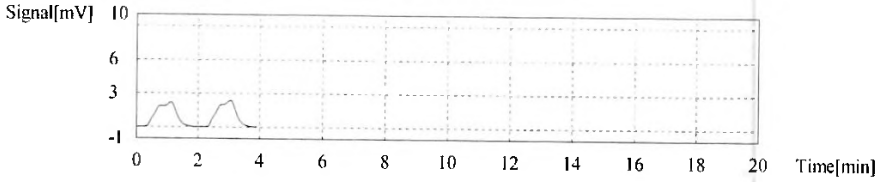
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 1 535mg/L

1. Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9 545	1 527mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6 20 42 PM
2	9 627	1 543mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6 22 47 PM

Mean Conc 1 535mg/L
CV Conc 0 76%



Sample

Sample Name CCVA
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 48 61mg/L

1. Det

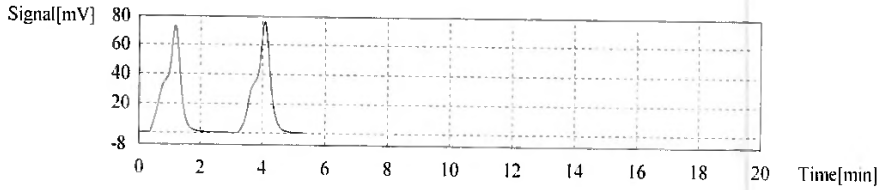
Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	243 7	48 59mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6 32 46 PM
2	243 9	48 63mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6 35 30 PM

TOC-Control L Report

e90517wl.toc tlx

Mean Conc 48.61mg/L
CV Conc 0.06%



Sample

Sample Name: CCB
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk Result

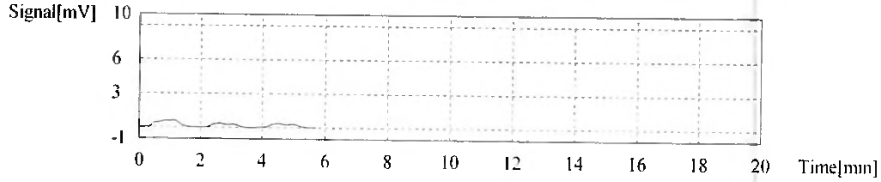
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC -0.05566mg/L

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.822	0.1755mg/L	100uL	1.000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6:42:55 PM
2	1.651	-0.05988mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6:45:00 PM
3	1.693	-0.05144mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6:47:05 PM

Mean Conc. -0.05566mg/L
CV Conc -10.72%



Sample

Sample Name: JC87644-6
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 3.096mg/L

1 Det

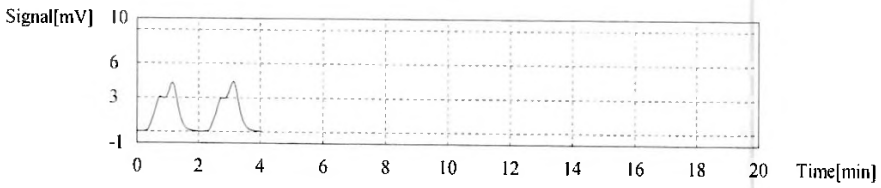
Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.34	3.094mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6:54:11 PM
2	17.36	3.098mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 6:56:24 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 3 096mg/L
CV Conc 0 09%



Sample

Sample Name
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

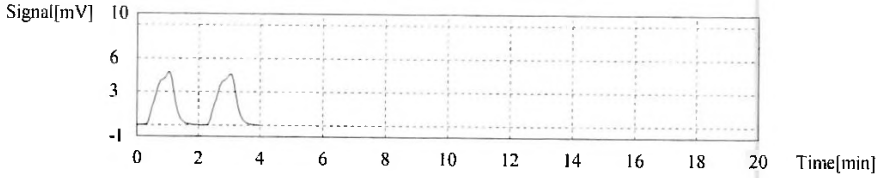
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 3 345mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18 63	3 353mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7 05 20 PM
2	18 55	3 337mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7 07 30 PM

Mean Conc. 3 345mg/L
CV Conc 0 34%



Sample

Sample Name JC87644-8
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 0 6653mg/L

1 Det

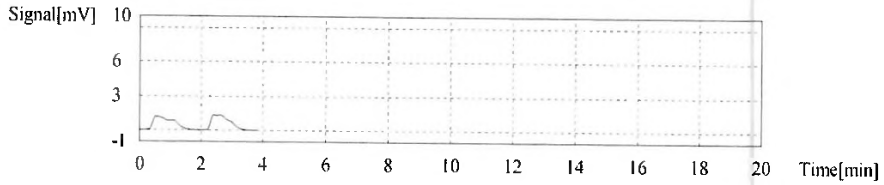
Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5 136	0 6406mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7 16 23 PM
2	5 382	0 6900mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7 18 28 PM

TOC-Control L Report

e90517wl.toc tlx

Mean Conc 0.6653mg/L
CV Conc 5.26%



Sample

Sample Name: JC87644-9
Sample ID:
Origin TOCAQ.met
Status Completed
Chk. Result

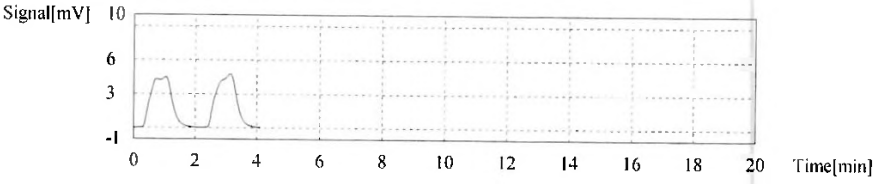
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 3.843mg/L

1. Det

Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.93	3.815mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7:27:45 PM
2	21.21	3.871mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7:29:57 PM

Mean Conc 3.843mg/L
CV Conc 1.04%



Sample

Sample Name: GP21321-MB1
Sample ID: TOC
Origin TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.2830mg/L

1. Det

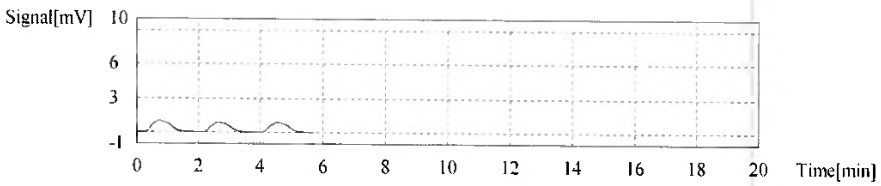
Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.751	0.3622mg/L	100uL	1.000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7:38:42 PM
2	3.366	0.2848mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7:40:47 PM
3	3.348	0.2812mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7:42:52 PM

TOC-Control L Report

e90517w1 toc llx

Mean Conc. 0.2830mg/L
CV Conc 0.90%



Sample

Sample Name: GP21321-B1
Sample ID:
Origin: TOCAQ met
Status Completed
Chk. Result

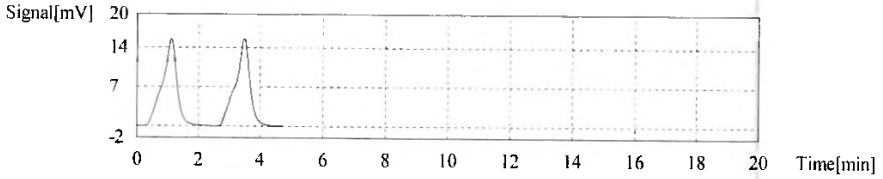
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 9.676mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	50.01	9.660mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7:50:20 PM
2	50.17	9.692mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 7:52:56 PM

Mean Conc. 9.676mg/L
CV Conc 0.24%



Sample

Sample Name: JC87656-2
Sample ID:
Origin: TOCAQ met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 7.848mg/L

1. Det

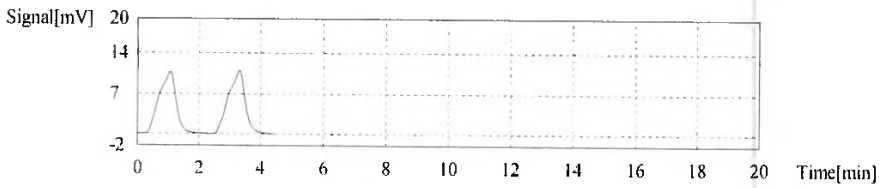
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.90	7.829mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8:01:20 PM
2	41.09	7.867mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8:03:43 PM

TOC-Control L Report

e90517w1 toc tk

Mean Conc 7.848mg/L
CV Conc 0.34%



Sample

Sample Name JC87656-3
Sample ID
Origin TOCAQ met
Status Completed
Chk. Result

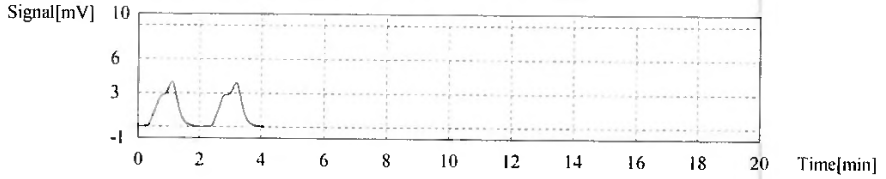
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 2.786mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.78	2.780mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8:12:20 PM
2	15.84	2.792mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8:14:32 PM

Mean Conc 2.786mg/L
CV Conc 0.31%



Sample

Sample Name JC87656-4
Sample ID
Origin TOCAQ met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 1.891mg/L

1. Det

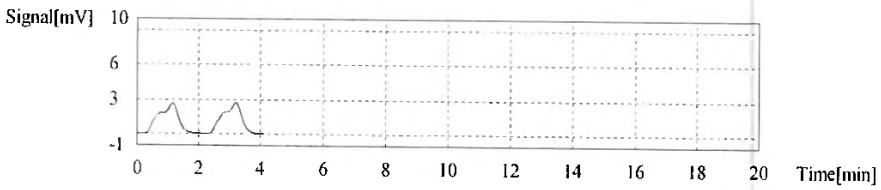
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.36	1.892mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8:23:29 PM
2	11.35	1.890mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8:25:41 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 1 891mg/L
CV Conc 0 08%



Sample

Sample Name: JC87656-6
Sample ID:
Origin TOCAQ met
Status Completed
Chk. Result

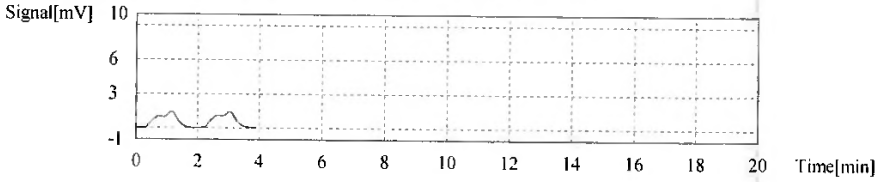
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 0 8551mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6 213	0 8571mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8 34 29 PM
2	6 194	0 8532mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8 36 39 PM

Mean Conc. 0 8551mg/L
CV Conc 0 32%



Sample

Sample Name CCV
Sample ID
Origin TOCAQ met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 23 88mg/L

1 Det

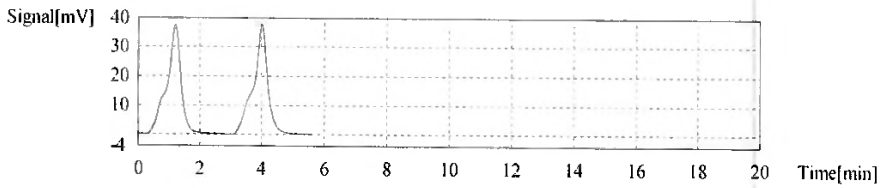
Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	120 4	23 81mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8 46 32 PM
2	121 1	23 95mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 8 49 31 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 23 88mg L
CV Conc 0 42%



Sample

Sample Name: CCB
Sample ID:
Origin TOCAQ met
Status Completed
Chk Result

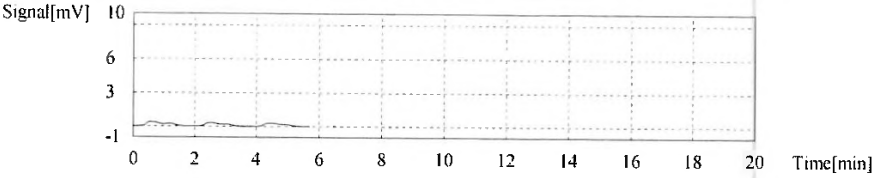
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC -0 1506mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1 433	-0 1037mg/L	100uL	1 000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9 05 43 PM
2	1 223	-0 1459mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9 07 48 PM
3	1 176	-0 1554mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9 09 53 PM

Mean Conc -0 1506mg L
CV Conc -4 43%



Sample

Sample Name: JC87656-7
Sample ID
Origin TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 1 009mg/L

1. Det

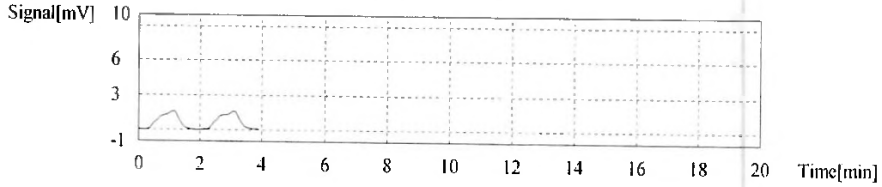
Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6 969	1 009mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9 16 56 PM
2	6 969	1 009mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9 19 04 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 1.009mg/L
CV Conc 0.00%



Sample

Sample Name: JC87015-8
Sample ID.
Origin. TOCAQ.met
Status Completed
Chk. Result

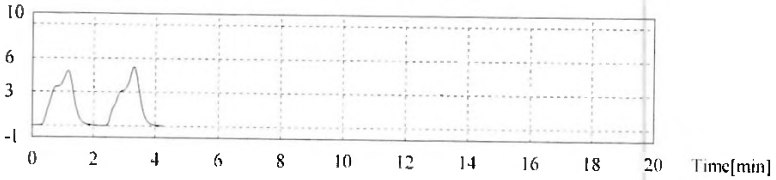
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 3.808mg/L

1. Det

Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.75	3.779mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9:28:16 PM
2	21.04	3.837mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9:30:34 PM

Mean Conc. 3.808mg/L
CV Conc 1.08%



Sample

Sample Name. JC87015-10
Sample ID:
Origin TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 7.692mg/L

1. Det

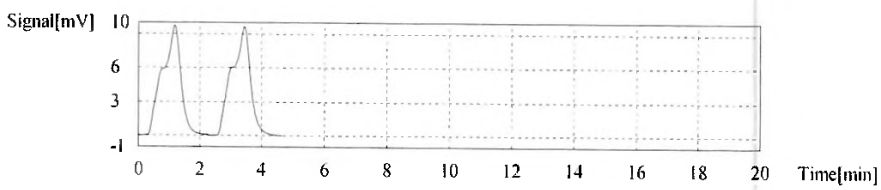
Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.07	7.662mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9:39:35 PM
2	40.37	7.722mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9:42:13 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 7.692mg/L
CV Conc 0.55%



Sample

Sample Name: JC87015-12
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

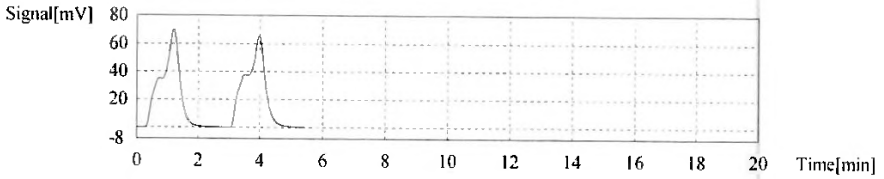
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 55.97mg/L

1. Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	280.1	55.91mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9:51:16 PM
2	280.7	56.03mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 9:54:10 PM

Mean Conc 55.97mg/L
CV Conc 0.15%



Sample

Sample Name: JC87015-14
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 3.052mg/L

1. Det

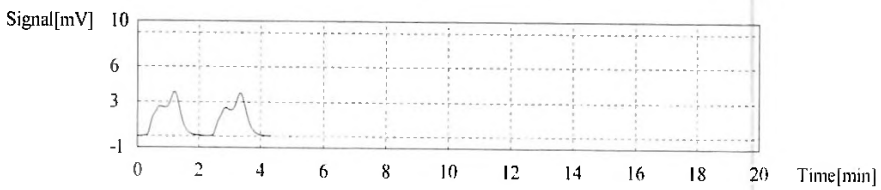
Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.41	3.108mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:01:48 PM
2	16.86	2.997mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:04:11 PM

TOC-Control L Report

e90517w1 toc.tlx

Mean Conc. 3.052mg/L
CV Conc 2.56%



Sample

Sample Name: JC87015-16
Sample ID:
Origin TOCAQ met
Status Completed
Chk Result

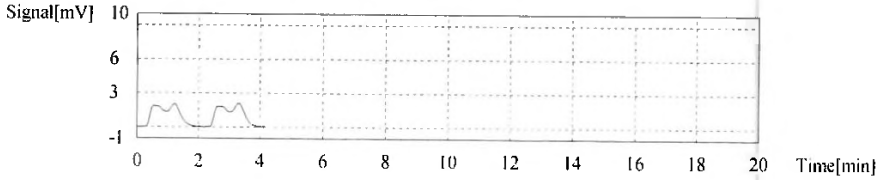
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 1.786mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.75	1.769mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:12:55 PM
2	10.92	1.803mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:15:11 PM

Mean Conc. 1.786mg/L
CV Conc 1.35%



Sample

Sample Name: GP21321-S1
Sample ID: JC87015-16
Origin TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 12.61mg/L

1 Det

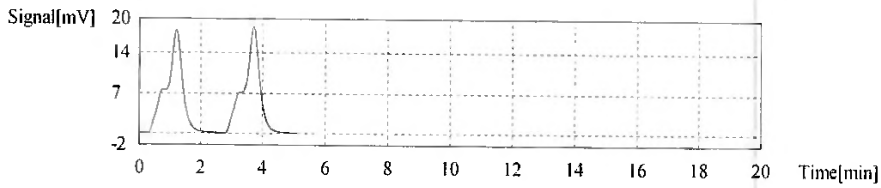
Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	64.21	12.51mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:24:31 PM
2	65.19	12.71mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:27:21 PM

TOC-Control L Report

e90517w1 toc tlx

Mean Conc. 12.61mg/L
CV Conc 1.10%



Sample

Sample Name: GP21321-MSD1
Sample ID: JC87015-16
Origin: TOCAQ met
Status: Completed
Chk. Result:

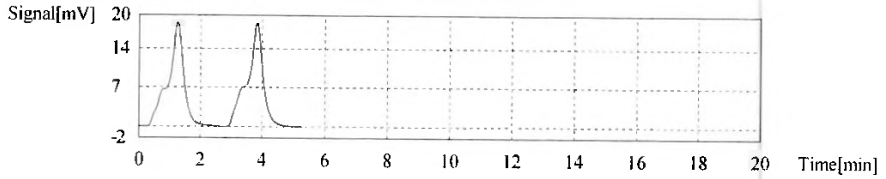
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 12.78mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	64.88	12.65mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:35:46 PM
2	66.14	12.90mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:38:41 PM

Mean Conc. 12.78mg/L
CV Conc 1.40%



Sample

Sample Name: CCVA
Sample ID:
Origin: TOCAQ met
Status: Completed
Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 48.95mg/L

1. Det

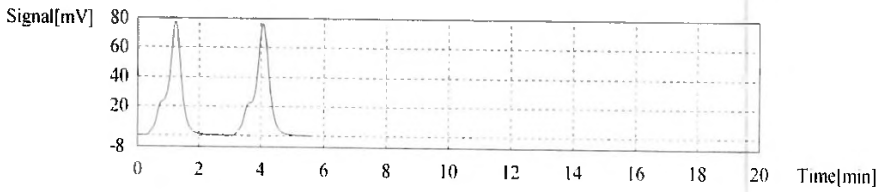
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	246.5	49.15mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:47:10 PM
2	244.5	48.75mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10:50:08 PM

TOC-Control L Report

e90517wl toc tlx

Mean Conc 48 95mg/L
CV Conc 0 58%



Sample

Sample Name: CCB
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk Result

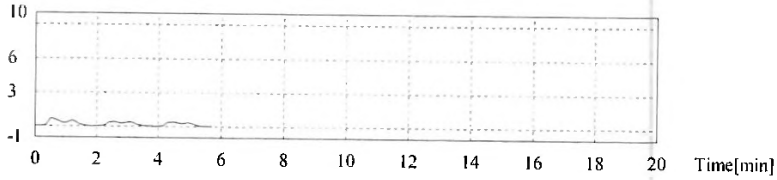
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC -0 03003mg/L

1 Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2 711	0 1532mg/L	100uL	1 000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10 57 25 PM
2	1 857	-0 01848mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 10 59 31 PM
3	1 742	-0 04159mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11 01 35 PM

Mean Conc -0 03003mg/L
CV Conc -54 42%



Sample

Sample Name: GP21322-MB1
Sample ID: TOC
Origin: TOCAQ.met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC -0 1851mg/L

1 Det

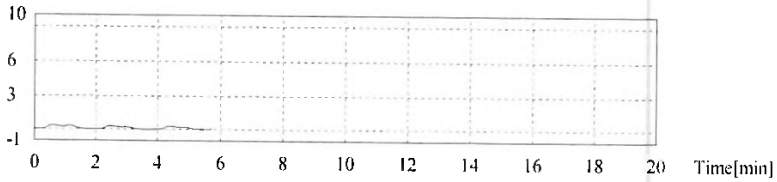
Anal.: NPOC

TOC-Control L Report

e90517w1 toc tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.484	-0.09345mg/L	100uL	1.000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:08:35 PM
2	1.096	-0.1714mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:10:41 PM
3	0.9604	-0.1987mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:12:45 PM

Mean Conc -0.1851mg/L
CV Conc -10.41%



Sample

Sample Name: GP21322-B1
Sample ID:
Origin TOCAQ.met
Status Completed
Chk Result

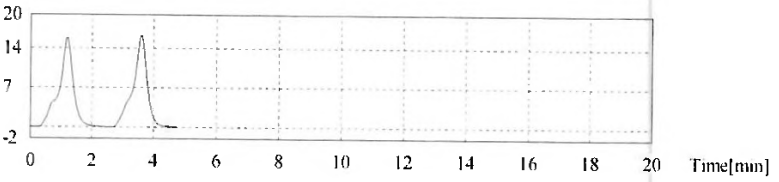
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 9.701mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.82	9.622mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:20:16 PM
2	50.61	9.781mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:22:51 PM

Mean Conc. 9.701mg/L
CV Conc 1.16%



Sample

Sample Name: JC87667-1
Sample ID:
Origin TOCAQ.met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.6561mg/L

1 Det

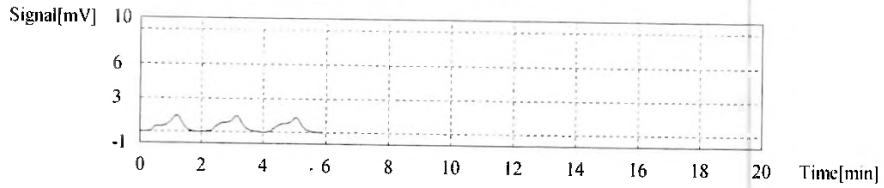
Anal NPOC

TOC-Control L Report

e90517w1.toc tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.156	0.6446mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:31:00 PM
2	5.595	0.7328mg/L	100uL	1.000	E	e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:33:04 PM
3	5.270	0.6675mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:35:16 PM

Mean Conc 0.6561mg/L
CV Conc 2.47%



Sample

Sample Name: JC87667-2
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

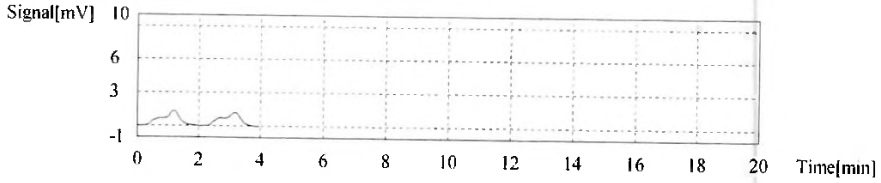
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.6269mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.117	0.6368mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:42:10 PM
2	5.019	0.6171mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/17/2019 11:44:19 PM

Mean Conc. 0.6269mg/L
CV Conc 2.22%



Sample

Sample Name: GP21322-S1
Sample ID: JC87667-2
Origin TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 11.62mg/L

1. Det

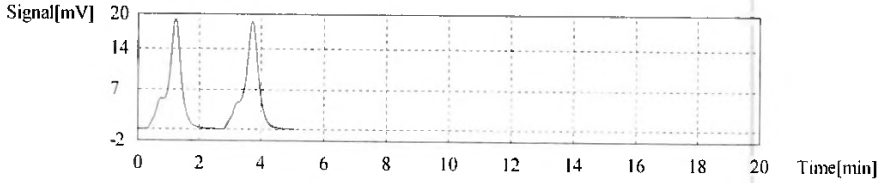
Anal.: NPOC

TOC-Control L Report

e90517wl toc tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.58	11.58mg/L	100uL	1.000		e90508wl 2019_05_08_11_23_21 cal	5/17/2019 11:53:51 PM
2	59.98	11.66mg/L	100uL	1.000		e90508wl 2019_05_08_11_23_21 cal	5/17/2019 11:56:36 PM

Mean Conc 11.62mg/L
CV Conc 0.49%



Sample

Sample Name GP21322-MSD1
Sample ID JC87667-2
Origin TOCAQ.met
Status Completed
Chk. Result

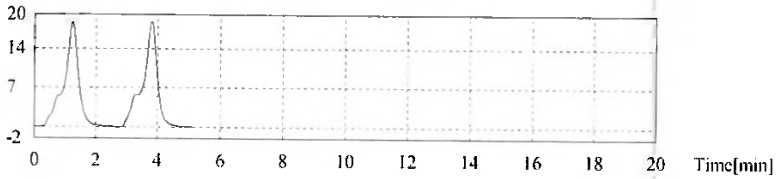
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 11.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	60.04	11.68mg/L	100uL	1.000		e90508wl 2019_05_08_11_23_21 cal	5/18/2019 12:05:05 AM
2	61.18	11.91mg/L	100uL	1.000		e90508wl 2019_05_08_11_23_21 cal	5/18/2019 12:07:55 AM

Mean Conc. 11.79mg/L
CV Conc 1.37%



Sample

Sample Name JC87667-3
Sample ID
Origin TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.9421mg/L

1. Det

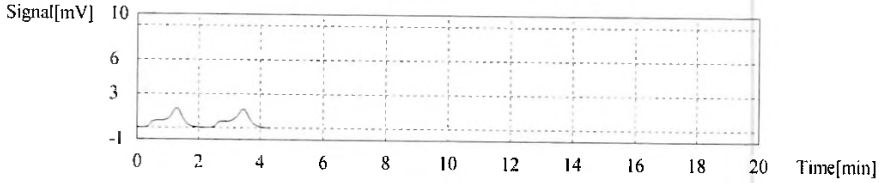
Anal.: NPOC

TOC-Control L Report

e90517w1 toc tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.764	0.9678mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12:15:51 AM
2	6.508	0.9163mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12:18:12 AM

Mean Conc 0.9421mg/L
CV Conc 3.86%



Sample

Sample Name: JC87667-5
Sample ID:
Origin TOCAQ.met
Status Completed
Chk Result

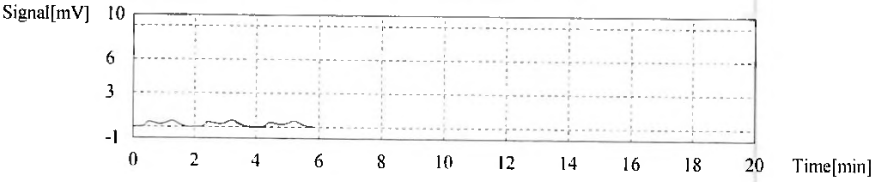
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.1073mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.458	0.1023mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12:26:48 AM
2	2.675	0.1459mg/L	100uL	1.000	E	e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12:28:58 AM
3	2.508	0.1124mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12:31:03 AM

Mean Conc. 0.1073mg/L
CV Conc 6.62%



Sample

Sample Name CCV
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 23.86mg/L

1. Det

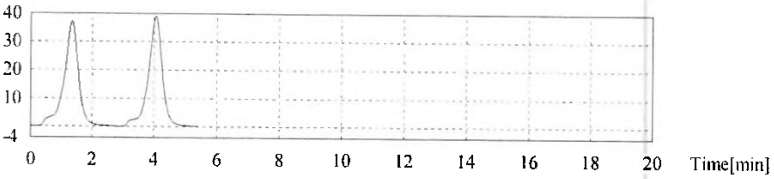
Anal NPOC

TOC-Control L Report

e90517w1 toc tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	120 3	23 79mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12 38 46 AM
2	121 0	23 93mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12 41 41 AM

Mean Conc 23 86mg/L
CV Conc 0 42%



Sample

Sample Name: CCB
Sample ID:
Origin TOCAQ met
Status Completed
Chk Result

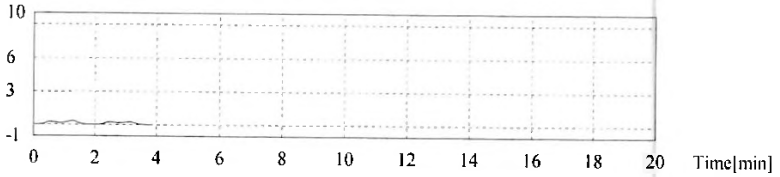
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC -0 1403mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1 304	-0 1296mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12 49 07 AM
2	1 198	-0 1509mg/L	100uL	1 000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 12 51 12 AM

Mean Conc -0 1403mg/L
CV Conc -10 74%



Sample

Sample Name: SPARGERCHK
Sample ID:
Origin TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC -0 2080mg/L

1 Det

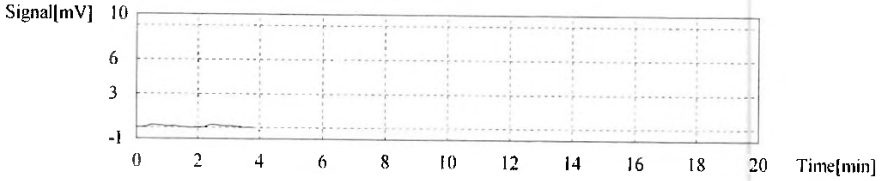
Anal NPOC

TOC-Control L Report

e90517w1 toc tlX

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8753	-0.2158mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 1:00:17 AM
2	0.9532	-0.2001mg/L	100uL	1.000		e90508w1 2019_05_08_11_23_21 cal	5/18/2019 1:02:22 AM

Mean Conc -0.2080mg/L
CV Conc -5.32%



LABORATORY REVIEW SIGNATURE FORM
(To be stored with the raw data)

File ID: E052019W1.NO32 Date Analyzed: 05/20/19 Methods: EPA 353.2/LACHAT
Analyst: KI Run ID: GN95545

The following analyst(s) have reviewd this run and attest that, to the best of their knowledge, this documentation is complete and correct:

Analyst: KI Date 5/20/19

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

The following supervisor or their designee has reviewed this run and attests that, to the best of their knowledge, this documentation is complete and correct:

Supervisor (or designee): _____ Date _____

C052019w1.no32

GN95545

Author: Chemistry

Date : 5/20/2019

Original Run Filename: OM_5-20-2019_11-41-51AM.OMN Created: 5/20/2019 11:41:51 AM
Original Run Author's Signature: [Chemistry]
Current Run Filename: OM_5-20-2019_11-41-51AM.OMN Last Modified: 5/20/2019 2:14:14 PM
Current Run Author's Signature: [Chemistry]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO32 (mg/L)	Detection Time	MDF	%rec
STDA	1	S1	5.00	5/20/2019@11:42:41 AM		
STDB	1	S2	2.50	5/20/2019@11:43:48 AM		
STDC	1	S3	1.00	5/20/2019@11:44:56 AM		
STDD	1	S4	0.500	5/20/2019@11:46:03 AM		
STDE	1	S5	0.200	5/20/2019@11:47:11 AM		
STDF	1	S6	0.100	5/20/2019@11:48:18 AM		
STDG	1	S7	0.00	5/20/2019@11:49:25 AM		
EFFCHK	1	1	1.99	5/20/2019@11:50:33 AM		
	Known Conc:		2.00			99.5
	Calibration:		Table/Fig. : 1			
ICV	1	2	2.01	5/20/2019@11:51:41 AM		
	Known Conc:		2.00			100.5
ICB	1	3	0.0566	5/20/2019@11:52:49 AM		
	Known Conc:		0.00			
CCV	1	S9	2.62	5/20/2019@11:53:56 AM		
	Known Conc:		2.50			104.8
CCB	1	S10	-0.0586	5/20/2019@11:55:04 AM		
	Known Conc:		0.00			
GP21326-MB1	1	4	-0.0319	5/20/2019@11:56:12 AM		
GP21326-B1	1	5	2.12	5/20/2019@11:57:19 AM		106
GP21326-S1	1	6	0.950	5/20/2019@11:58:27 AM		
GP21326-S2	1	7	1.41	5/20/2019@11:59:34 AM		
GP21326-D1	1	8	0.0203	5/20/2019@12:00:42 PM		
JC87579-1	1	9	0.899	5/20/2019@12:01:49 PM		
JC87579-2	1	10	0.444	5/20/2019@12:02:56 PM		
JC87579-4	1	11	0.428	5/20/2019@12:04:03 PM		
JC87579-5	1	12	0.386	5/20/2019@12:05:10 PM		
JC87579-6	1	13	0.410	5/20/2019@12:06:17 PM		
CCV	1	S9	2.63	5/20/2019@12:07:24 PM		
	Known Conc:		2.50			105.2
CCB	1	S10	-0.0515	5/20/2019@12:08:32 PM		
	Known Conc:		0.00			
JC87579-7	1	14	0.442	5/20/2019@12:09:39 PM		
JC87579-8	1	15	0.459	5/20/2019@12:10:46 PM		
JC87579-9	1	16	0.505	5/20/2019@12:11:53 PM		
JC87579-10	1	17	5.72e-3	5/20/2019@12:13:01 PM		
JC87579-11	1	18	0.0144	5/20/2019@12:14:09 PM		
JC87605-1	1	19	-0.0369	5/20/2019@12:15:17 PM		
JC87605-2	1	20	-0.0337	5/20/2019@12:16:24 PM		
JC87605-3	1	21	-0.0128	5/20/2019@12:17:32 PM		
JC85550-1	1	22	1.48	5/20/2019@12:18:39 PM		
JC85550-2	1	23	1.53	5/20/2019@12:19:47 PM		
CCV	1	S9	2.62	5/20/2019@12:20:54 PM		
	Known Conc:		2.50			104.8
CCB	1	S10	-0.0632	5/20/2019@12:22:02 PM		
	Known Conc:		0.00			
JC85550-3	1	24	5.85e-3	5/20/2019@12:23:09 PM		
JC85550-4	1	25	-0.0647	5/20/2019@12:24:16 PM		
JC85550-5	1	26	-0.0270	5/20/2019@12:25:23 PM		
JC85550-6	1	27	1.46	5/20/2019@12:26:30 PM		
JC85550-7 (2)	1	28	8.10	5/20/2019@12:27:37 PM		average, see rerun
GP21327-MB1	1	29	-0.0609	5/20/2019@12:28:44 PM		
GP21327-B1	1	30	1.98	5/20/2019@12:29:50 PM		99
GP21327-S1	1	31	1.04	5/20/2019@12:30:58 PM		
GP21327-S2	1	32	0.967	5/20/2019@12:32:06 PM		
GP21327-D1	1	33	-0.0252	5/20/2019@12:33:14 PM		
CCV	1	S9	2.64	5/20/2019@12:34:21 PM		
	Known Conc:		2.50			105.6
CCB	1	S10	-0.0620	5/20/2019@12:35:29 PM		
	Known Conc:		0.00			

Author: Chemistry

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JC85550-8	1	34	0.0420	5/20/2019@12:36:37 PM	
JC87644-1	1	35	-0.0157	5/20/2019@12:37:44 PM	
JC87644-2	1	36	-0.0311	5/20/2019@12:38:52 PM	
JC87644-3	1	37	-0.0344	5/20/2019@12:40:00 PM	
JC87644-4	1	38	7.27e-3	5/20/2019@12:41:07 PM	
JC87644-6	1	39	-0.0347	5/20/2019@12:42:14 PM	
JC87644-7	1	40	0.0359	5/20/2019@12:43:21 PM	
JC87656-2	1	41	-0.0156	5/20/2019@12:44:28 PM	
JC87656-3	1	42	-0.0357	5/20/2019@12:45:35 PM	
JC87656-4	1	43	0.272	5/20/2019@12:46:41 PM	
CCV	1	S9	2.60	5/20/2019@12:47:49 PM	
	Known Conc:		2.50		
CCB	1	S10	-0.0609	5/20/2019@12:48:56 PM	
	Known Conc:		0.00		
JC87656-6	1	44	-0.0277	5/20/2019@12:50:04 PM	
JC87656-7	1	45	-0.0724	5/20/2019@12:51:10 PM	
JC87660-2	1	46	3.77	5/20/2019@12:52:18 PM	
JC87662-1	1	47	0.0899	5/20/2019@12:53:26 PM	
JC87662-2	1	48	0.0559	5/20/2019@12:54:33 PM	
JC87662-3	1	49	-7.15e-3	5/20/2019@12:55:41 PM	
JC87662-4	1	50	-0.0204	5/20/2019@12:56:49 PM	
JC87662-5	1	51	0.916	5/20/2019@12:57:56 PM	
JC87662-6	1	52	0.180	5/20/2019@12:59:04 PM	
JC87662-7	1	53	0.218	5/20/2019@1:00:11 PM	
CCV	1	S9	2.64	5/20/2019@1:01:19 PM	
	Known Conc:		2.50		
CCB	1	S10	-0.0577	5/20/2019@1:02:27 PM	
	Known Conc:		0.00		
GP21328-MB1	1	54	-7.68e-3	5/20/2019@1:03:34 PM	
GP21328-B1	1	55	1.85	5/20/2019@1:04:41 PM	
GP21328-S1 (2)	1	56	7.44	5/20/2019@1:05:48 PM	
GP21328-S2	1	57	0.953	5/20/2019@1:06:55 PM	
GP21328-D1 (2)	1	58	6.74	5/20/2019@1:08:02 PM	
JC87662-8	1	59	0.0116	5/20/2019@1:09:09 PM	
JC87662-9	1	60	0.450	5/20/2019@1:10:15 PM	
JC87662-10	1	61	4.24	5/20/2019@1:11:23 PM	
JC87662-11	1	62	0.664	5/20/2019@1:12:32 PM	
JC87667-1 (2)	1	63	6.84	5/20/2019@1:13:40 PM	
CCV	1	S9	2.62	5/20/2019@1:14:47 PM	
	Known Conc:		2.50		
CCB	1	S10	-0.0544	5/20/2019@1:15:54 PM	
	Known Conc:		0.00		
JC87667-2 (2)	1	64	8.38	5/20/2019@1:17:02 PM	
JC87667-3 (2)	1	65	9.20	5/20/2019@1:18:10 PM	
JC87667-5	1	66	0.0385	5/20/2019@1:19:18 PM	
JC87668-1	1	67	-4.58e-3	5/20/2019@1:20:25 PM	
JC87668-2	1	68	-0.0336	5/20/2019@1:21:32 PM	
JC87669-1	1	69	-0.0207	5/20/2019@1:22:40 PM	
JC87669-2	1	70	-0.0115	5/20/2019@1:23:47 PM	
JC87751-1	1	71	-0.0185	5/20/2019@1:24:54 PM	
JC87751-2	1	72	0.202	5/20/2019@1:26:01 PM	
JC87751-3	1	73	0.0326	5/20/2019@1:27:08 PM	
CCV	1	S9	2.63	5/20/2019@1:28:15 PM	
	Known Conc:		2.50		
CCB	1	S10	-0.0896	5/20/2019@1:29:22 PM	
	Known Conc:		0.00		
JC87751-4	1	74	0.224	5/20/2019@1:30:29 PM	
JC87751-5	1	75	-0.0367	5/20/2019@1:31:36 PM	
JC88066-1	1	76	-0.0119	5/20/2019@1:32:44 PM	
JC88066-2	1	77	0.0297	5/20/2019@1:33:52 PM	
JC88066-3	1	78	-0.0206	5/20/2019@1:35:00 PM	
GP21329-MB1	1	79	-0.0427	5/20/2019@1:36:08 PM	
GP21329-B1	1	80	1.98	5/20/2019@1:37:15 PM	
GP21329-S1	1	81	1.35	5/20/2019@1:38:23 PM	
GP21329-D1	1	82	0.334	5/20/2019@1:39:30 PM	
JC88066-4	1	83	0.0450	5/20/2019@1:40:38 PM	
CCV	1	S9	2.63	5/20/2019@1:41:45 PM	
	Known Conc:		2.50		

104

105.6

92.5

overrange, see rerun

overrange, see rerun

overrange, see rerun

104.8

overrange, see rerun

105.2

99

105.2

Author: Chemistry

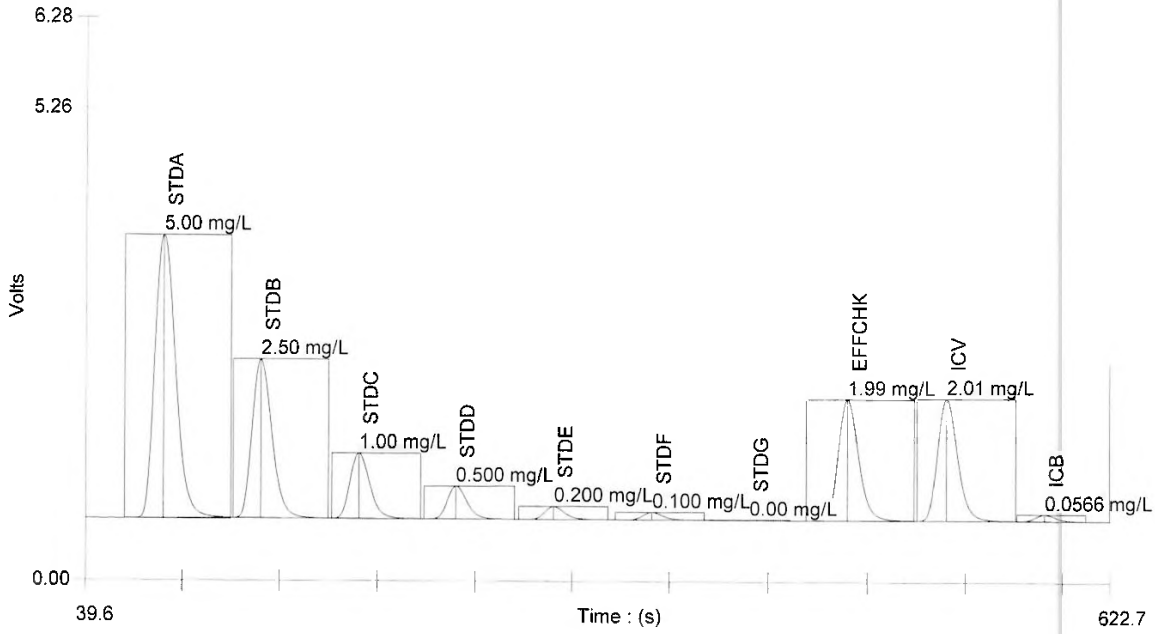
Date : 5/20/2019

CCB	1	S10	-0.0601	5/20/2019@1:42:53 PM	
	Known Conc:		0.00		
JC88066-5	1	84	0.0348	5/20/2019@1:44:00 PM	
JC85550-10	1	85	1.81	5/20/2019@1:45:07 PM	
JC85550-11	1	86	0.342	5/20/2019@1:46:14 PM	
JC85550-12	1	87	0.343	5/20/2019@1:47:21 PM	
JC85550-13	1	88	0.341	5/20/2019@1:48:28 PM	
JC85550-15	1	89	0.0205	5/20/2019@1:49:35 PM	
JC85550-16	1	90	1.50	5/20/2019@1:50:42 PM	
JC88208-1	1	91	0.169	5/20/2019@1:51:50 PM	
JC85550-7	1	92	4.84	5/20/2019@1:52:58 PM	2.00
JC85550-7	1	93	2.53	5/20/2019@1:54:06 PM	4.00
CCV	1	S9	2.61	5/20/2019@1:55:13 PM	
	Known Conc:		2.50		
CCB	1	S10	-0.0528	5/20/2019@1:56:21 PM	
	Known Conc:		0.00		
GP21328-S1	1	94	4.31	5/20/2019@1:57:29 PM	2.00
GP21328-S1	1	95	2.22	5/20/2019@1:58:36 PM	4.00
GP21328-D1	1	96	3.76	5/20/2019@1:59:44 PM	2.00
GP21328-D1	1	97	1.91	5/20/2019@2:00:51 PM	4.00
JC87667-1	1	98	3.81	5/20/2019@2:01:59 PM	2.00
JC87667-1	1	99	1.96	5/20/2019@2:03:06 PM	4.00
JC87667-2	1	100	5.11	5/20/2019@2:04:13 PM	2.00
JC87667-2	1	101	2.69	5/20/2019@2:05:20 PM	4.00
JC87667-3	1	102	5.96	5/20/2019@2:06:27 PM	2.00
JC87667-3	1	103	3.26	5/20/2019@2:07:35 PM	4.00
CCV	1	S9	2.62	5/20/2019@2:10:45 PM	
	Known Conc:		2.50		
CCB	1	S10	-0.0591	5/20/2019@2:11:53 PM	
	Known Conc:		0.00		

104.4

104.7

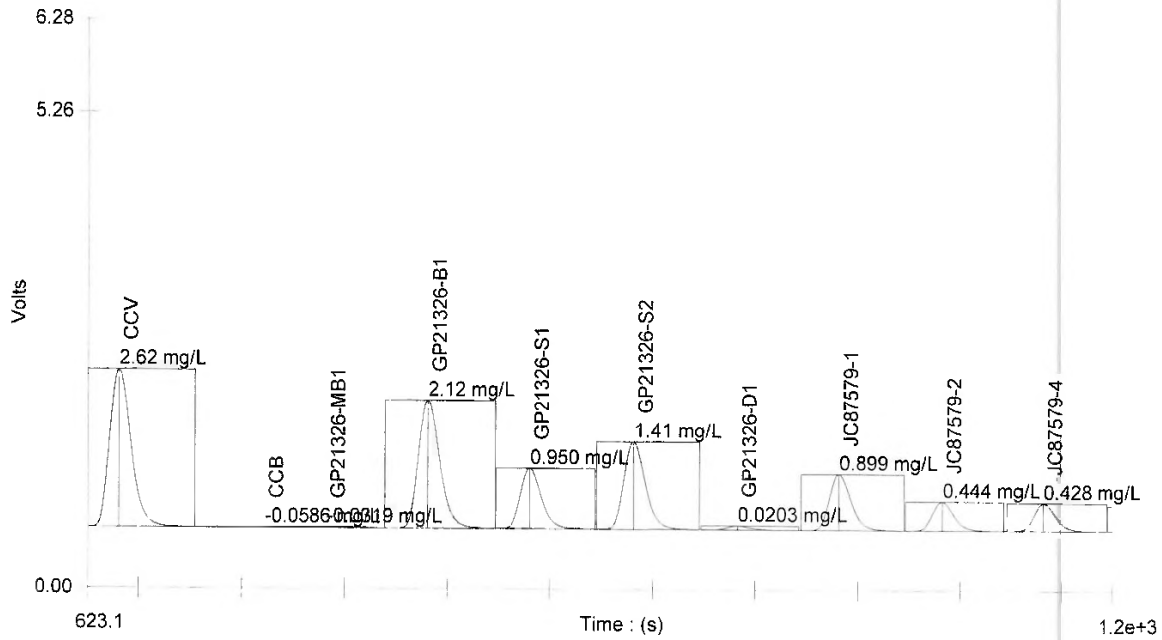
Channel 1 - Set: 1 / 14



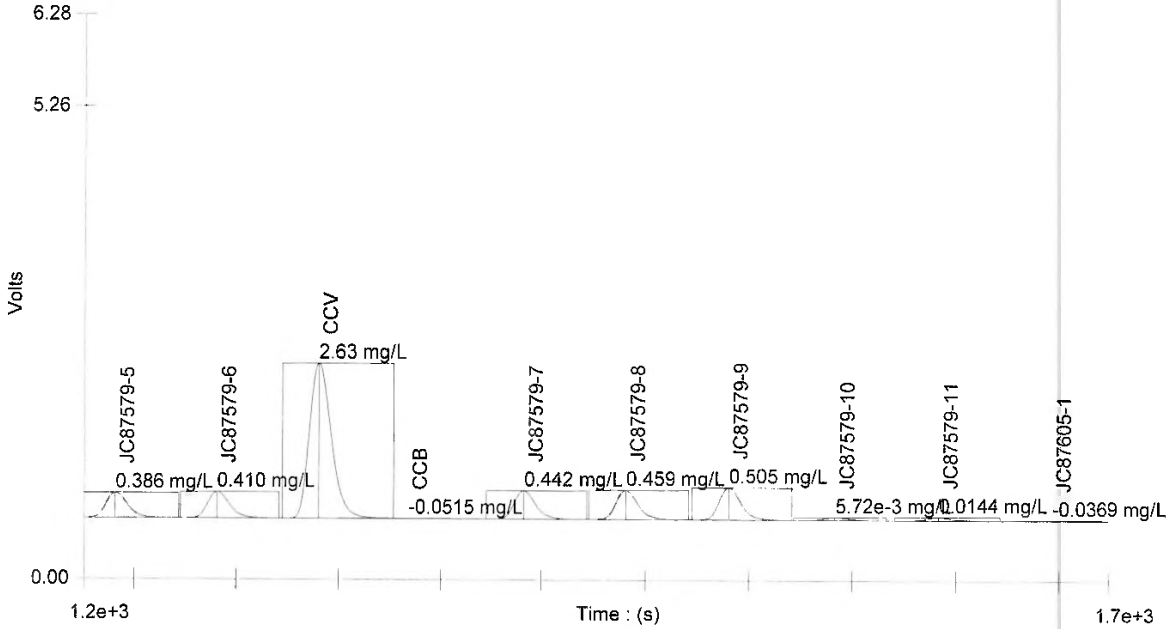
Author: Chemistry

Date : 5/20/2019

Channel 1 - Set: 2 / 14



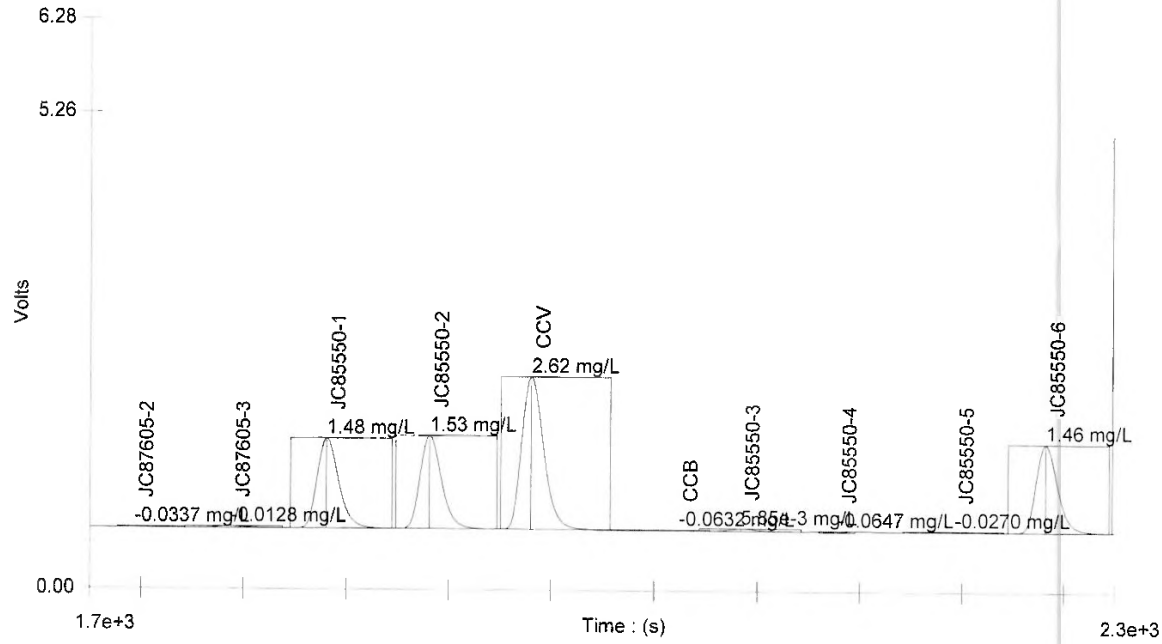
Channel 1 - Set: 3 / 14



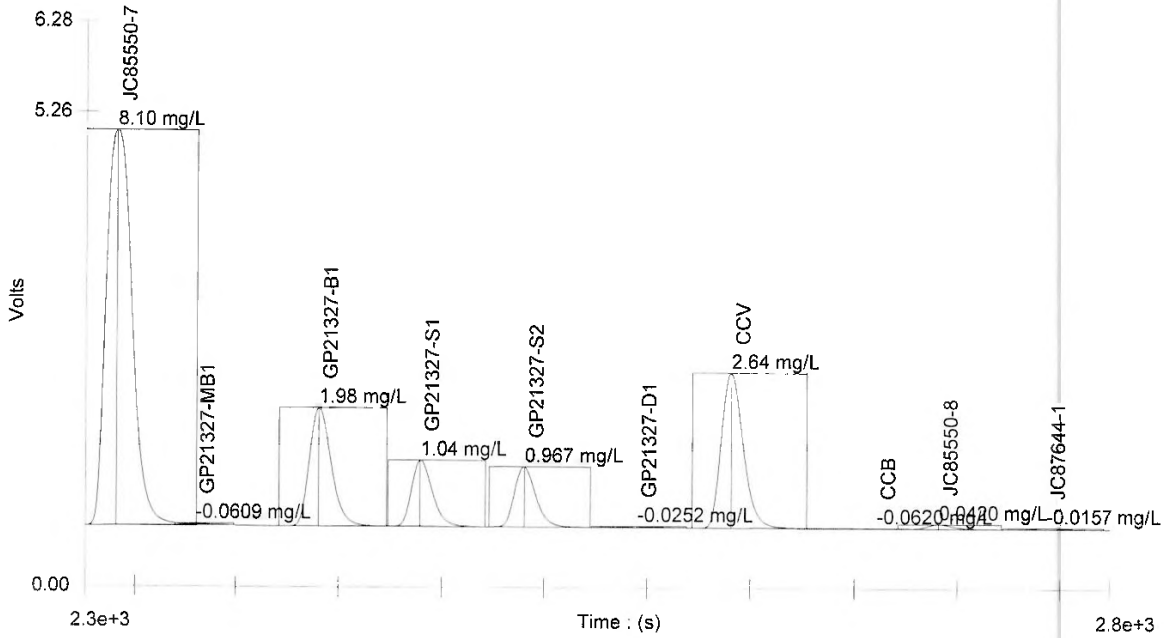
Author: Chemistry

Date : 5/20/2019

Channel 1 - Set: 4 / 14



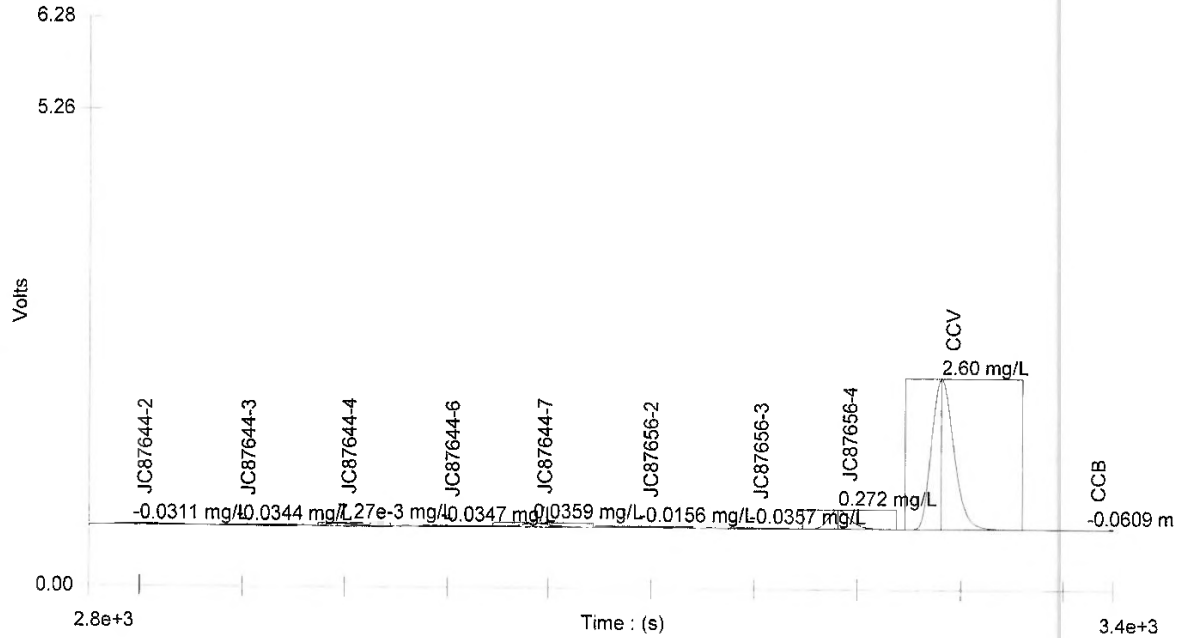
Channel 1 - Set: 5 / 14



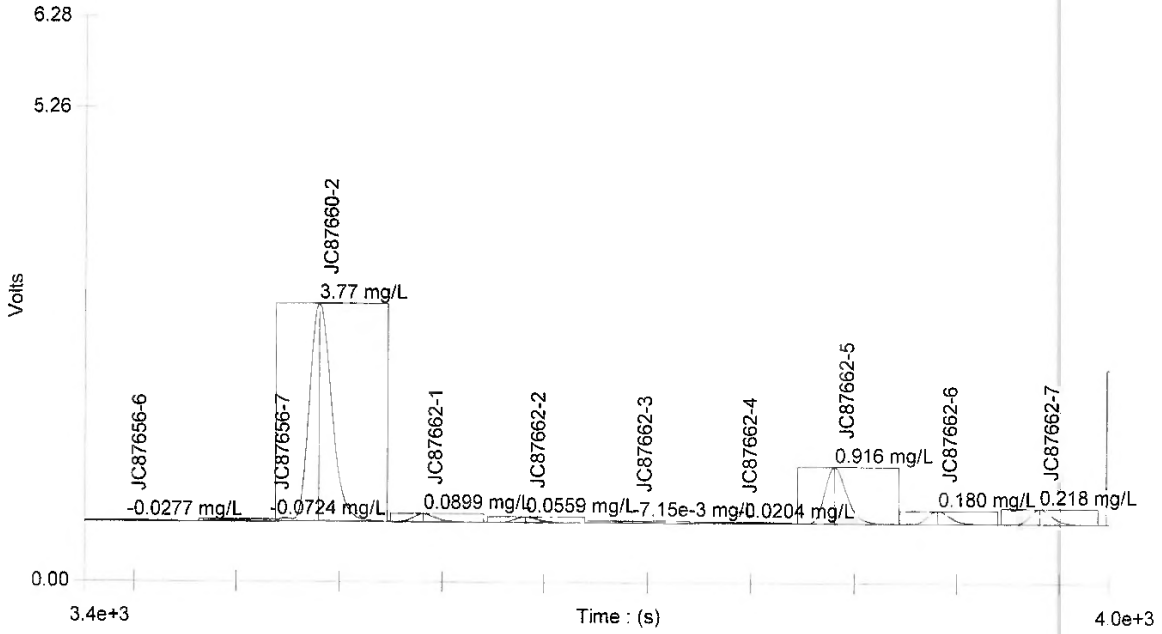
Author: Chemistry

Date : 5/20/2019

Channel 1 - Set: 6 / 14



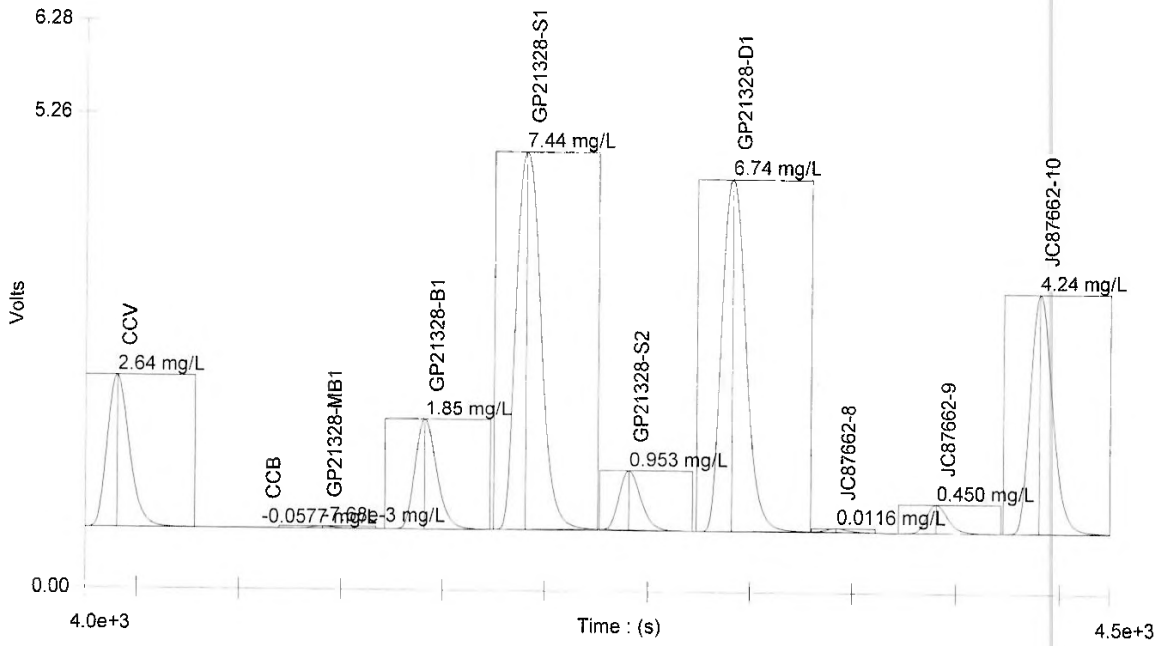
Channel 1 - Set: 7 / 14



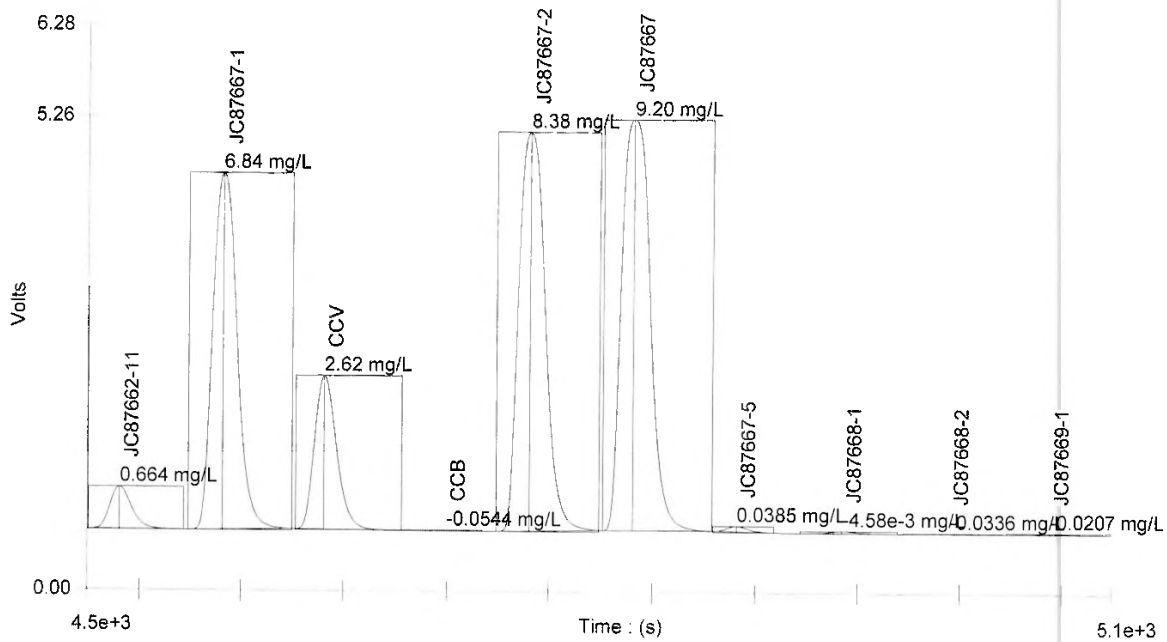
Author: Chemistry

Date : 5/20/2019

Channel 1 - Set: 8 / 14



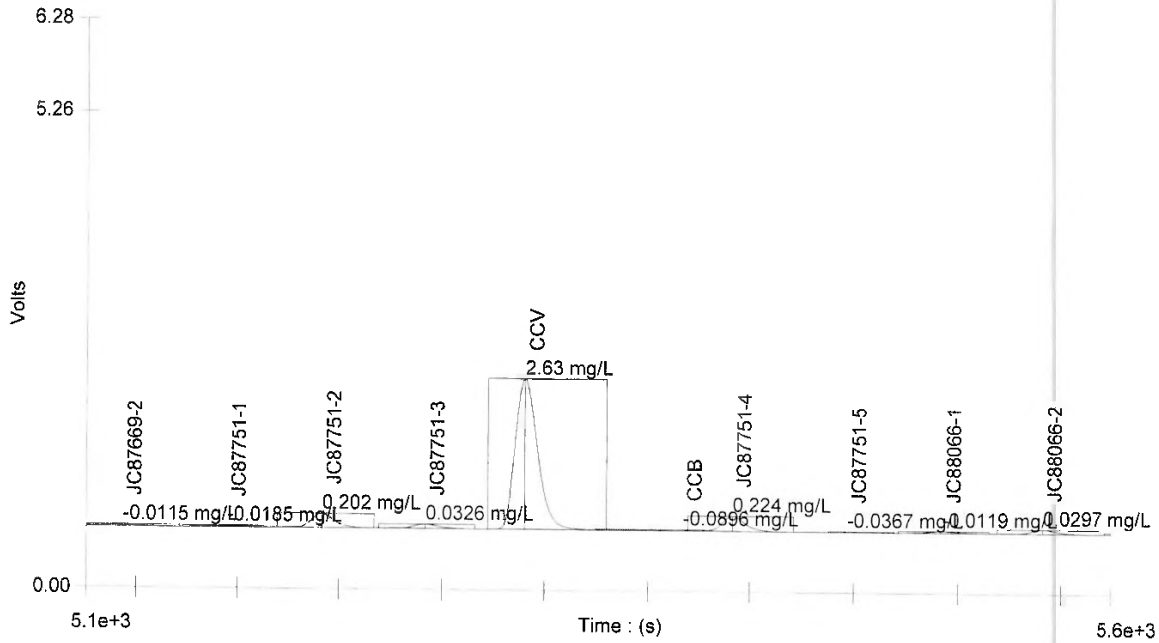
Channel 1 - Set: 9 / 14



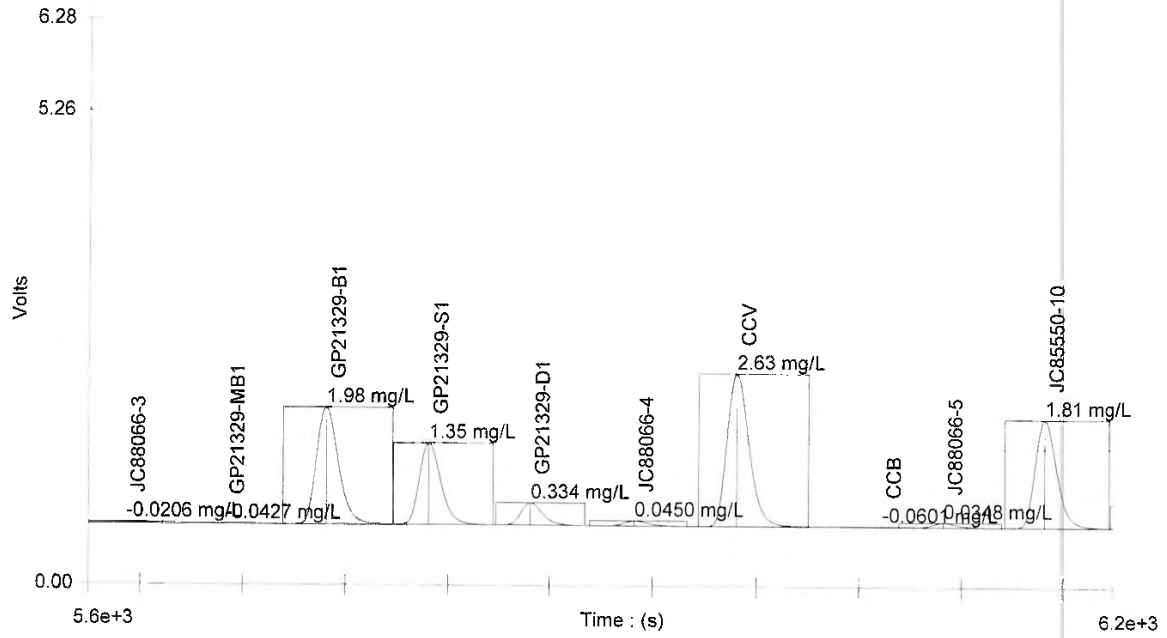
Author: Chemistry

Date : 5/20/2019

Channel 1 - Set: 10 / 14



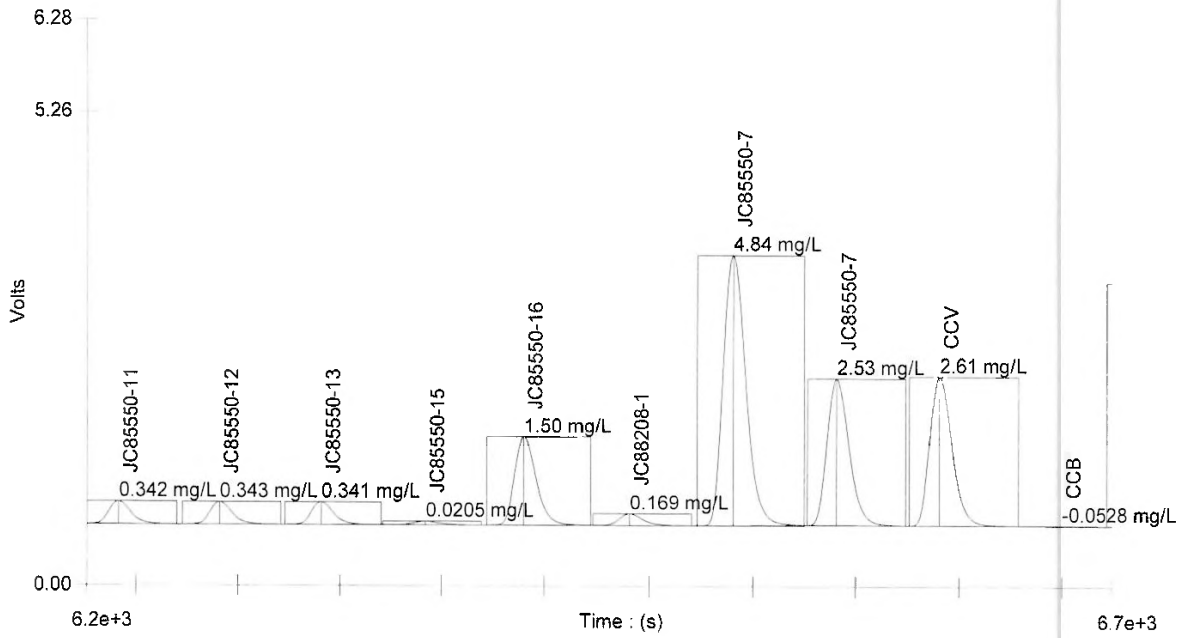
Channel 1 - Set: 11 / 14



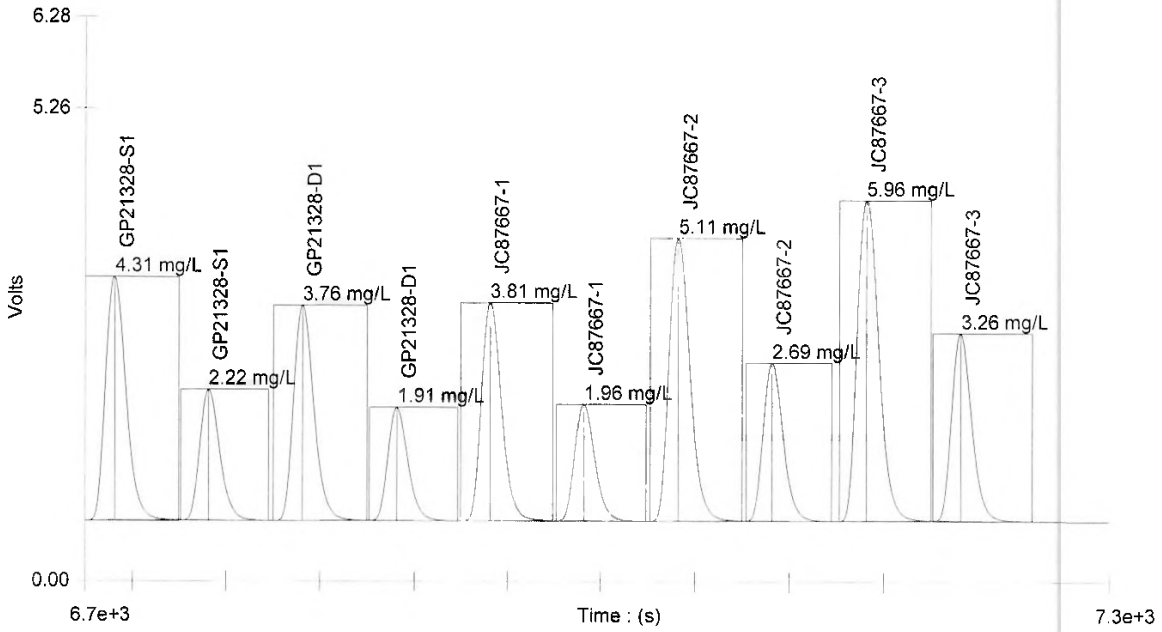
Author: Chemistry

Date : 5/20/2019

Channel 1 - Set: 12 / 14



Channel 1 - Set: 13 / 14



Author: Chemistry

Date : 5/20/2019

Channel 1 - Set: 14 / 14

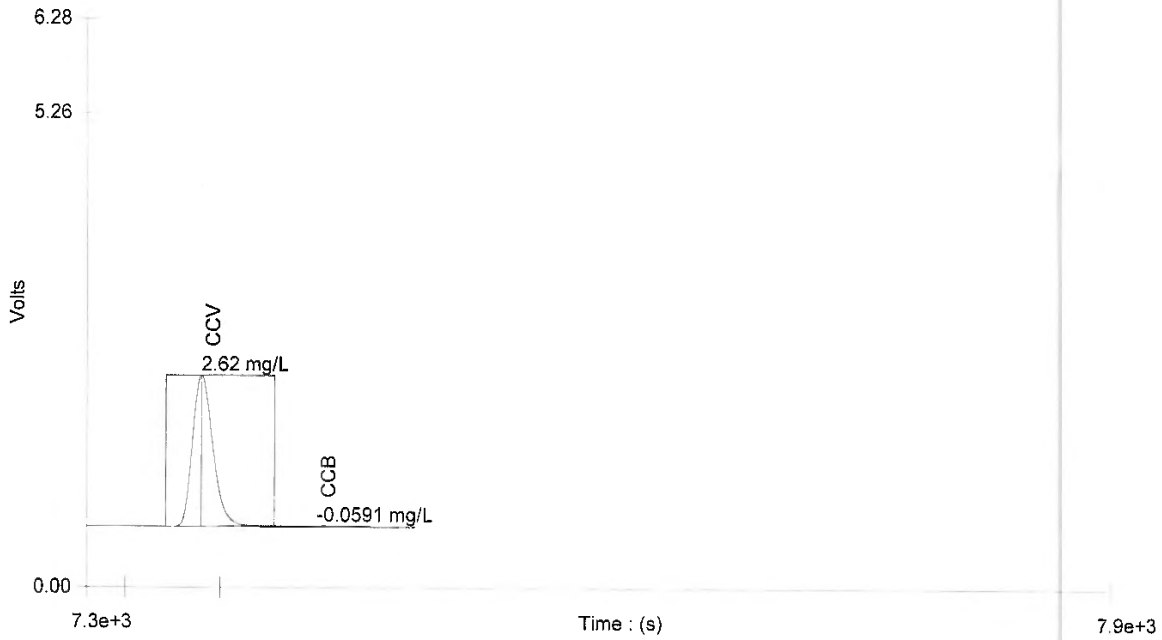
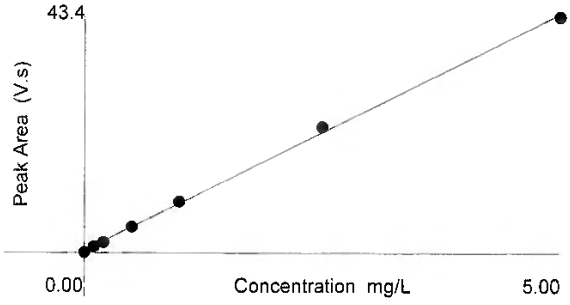


Table : 1 (NO32)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	5.00	1	43.4	3.17	0.0	1.3	4.93	5/20/2019	11:42:41 AM
2	2.50	1	23.2	1.77	0.0	-4.5	2.61	5/20/2019	11:43:48 AM
3	1.00	1	9.51	0.735	0.0	-3.8	1.04	5/20/2019	11:44:56 AM
4	0.500	1	4.78	0.368	0.0	0.5	0.498	5/20/2019	11:46:03 AM
5	0.200	1	1.94	0.149	0.0	11.3	0.173	5/20/2019	11:47:11 AM
6	0.100	1	1.15	0.0872	0.0	13.1	0.0814	5/20/2019	11:48:18 AM
7	0.00	1	0.0934	5.19e-3			-0.0393	5/20/2019	11:49:25 AM

Figure : 1 (NO32)



Area = 8.71 * Conc + 0.449
Conc = 0.115 * Area - 0.0500
Correlation Coefficient (r) = 0.99946

Weighting : None

SGS

Analyst KI Product NO32 Autopipette # 43

Date 5/20/19 Batch ID Class A Vol. Flask

Sample Dilution Prep Log

Sample ID	Dilution	Initial Volume	Final Volume	Comments
JC85550-7	1:2	2	4	
L	1:4	1	4	
GP21328-S1	1:2	2	4	
-S1	1:4	1	4	
-D1	1:2	2	4	
-D1	1:4	1	4	
JC87667-1	1:2	2	4	
-1	1:4	1	4	
-2	1:2	2	4	
-2	1:4	1	4	
-3	1:2	2	4	
-3	1:4	1	4	

QC Reviewer: Date:

Form: GN165-01
Rev. Date: 2/25/03

SGS

Analyst: KI

Product: NO32

Pipette ID: 43

Prep Date: 5/20/19

Balance ID: _____

Batch ID: _____

Sample Prep Log

Sample ID	Initial Sample Amount	Final Volume
GP21326-B1	2mL 100ppm NO32 std	100mL carrier
-S1	.5mL 100ppm	50mL JC85550-3
-S2	↓	50mL JC87579-6
GP21327-B1	2mL 100ppm NO32 std	100mL carrier
-S1	.5mL 100ppm	50mL JC87644-1
-S2	↓	50mL JC87656-2
GP21328-B1	2mL 100ppm NO32 std	100mL carrier
-S1	5mL 100ppm	50mL JC87667-1
-S2	↓	50mL JC87668-1
GP21329-B1	2mL 100ppm NO32 std	100mL carrier
-S1	5mL 100ppm	50mL JC85550-13
~~-S2~~ (KI)		~~50mL~~ (KI)

Reviewer: _____

Date: 5/20/19

Form: GN166-04
Revised: 10/27/16

SGS

Reagent Information Log - Nitrate Lachat Autoanalyzer

GN95545

Reagent	Reagent # or Manufacturer/Lot	Expiration Date
Nitrate Stock Solution	GNE2-57126-NO32	8/4/2019
Ammonium Chloride Buffer Solution	GNE3-57481-NO3	9/12/2019
Sulfanilamide Color Reagent	GNE5-57961-NO32	6/7/2019
1:1 NH4OH	GNE1-57007-NO32	7/21/2019
Carrier Solution	GNE11-56545-NO3	5/28/2019
1000 ppm Nitrite Solution	GNE2-57128-NO32	8/4/2019
Nitrate External Stock Solution	GNE2-57127-NO32	8/4/2019

Reason codes for data corrections: 1-reviewer error correction; 2-transcription error; 3-computer error; 4-analyst error

Form: GN087A-43
Rev. Date: 7/19/06

SGS

GENERAL CHEMISTRY STANDARD PREPARATION LOG FOR NITRATE

GN or GP Number: GN95545

Intermediate Standard Description	Stock used to prepare standard	Stock concentration in mg/l	Stock volume used in ml	Diluent (a)	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
100 ppm NO3 intermediate	GNE2-57126-NO32	1000	10	Carrier	100 ml	100	8/4/2019	BM	2/4/2019
100 ppm NO2 Intermediate	GNE2-57128-NO32	1000	10	Carrier	100 ml	100	8/4/2019	BM	2/4/2019
100 ppm NO3 External	GNE2-57127-NO32	1000	10	Carrier	100 ml	100	8/4/2019	BM	2/4/2019

Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
5.0 mg/l NO3	100 ppm NO3 intermediate	100 mg/l	5.0	Carrier	100 ml	5.0	5/24/2019	KI	5/17/2019
2.5 mg/l NO3	100 ppm NO3 intermediate	100 mg/l	2.5	Carrier	100 ml	2.5	5/24/2019	KI	5/17/2019
1.0 mg/l NO3	100 ppm NO3 intermediate	100 mg/l	1.0	Carrier	100 ml	1.0	5/24/2019	KI	5/17/2019
0.5 mg/l NO3	100 ppm NO3 intermediate	100 mg/l	5.0	Carrier	100 ml	0.5	5/24/2019	KI	5/17/2019
0.2 mg/l NO3	100 ppm NO3 intermediate	100 mg/l	2.0	Carrier	100 ml	0.2	5/24/2019	KI	5/17/2019
0.1 mg/l NO3	100 ppm NO3 intermediate		1.0	Carrier	100 ml	0.1	5/24/2019	KI	5/17/2019
Effcheck 2.0	100 ppm NO2 Intermediate	100 mg/l	2.0	Carrier	100 ml	2.0	5/24/2019	KI	5/17/2019
ICV	100 ppm NO3 External	100 mg/l	2.0	Carrier	100 ml	2.0	5/24/2019	KI	5/17/2019

(a) Diluent reagent reference number_____ Expiration Date_____

**Volume will change with standardization concentration.

Form: GN199-02
Rev. Date: 3/2/18

LABORATORY REVIEW SIGNATURE FORM
(To be stored with the raw data)

File ID: E90521W1.TXT
Analyst: CD

Date Analyzed: 05/21/19
Run ID: GN95595

Methods: SM5310 B-11

The following analyst(s) have reviewd this run and attest that, to the best of their knowledge, this documentation is complete and correct:

Analyst: CZO Date 5/22/19

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

The following supervisor or their designee has reviewed this run and attests that, to the best of their knowledge, this documentation is complete and correct:

Supervisor (or designee): _____ Date 5/22/19

C:\TOC-L\Data\e90521w1.toc.tlx

	Type	Sample Name	Sample ID	Origin	Manual Diluti	Result	Comment	Status
1	Unknown			TOCAQ.met	1.000	NPOC:0.4212		Completed
2	Standard	Untitled	Untitled	e90521w1.2019_0	1.000			Completed
3	Unknown	ICV		TOCAQ.met	1.000	NPOC:18.61		Completed
4	Unknown	ICB		TOCAQ.met	1.000	NPOC:-0.021		Completed
5	Unknown	CCV		TOCAQ.met	1.000	NPOC:24.59		Completed
6	Unknown	CCB		TOCAQ.met	1.000	NPOC:0.0812		Completed
7	Unknown	SPARGERCHK		TOCAQ.met	1.000	NPOC:-0.056		Completed
8	Unknown	GP21321-MB2	TOC	TOCAQ.met	1.000	NPOC:-0.190		Completed
9	Unknown	GP21321-B2		TOCAQ.met	1.000	NPOC:10.12		Completed
10	Unknown	JC87015-12		TOCAQ.met	3.000	NPOC:52.44		Completed
11	Unknown	GP21380-MB1	DOC	TOCAQ.met	1.000	NPOC:0.4536		Completed
12	Unknown	GP21380-B1		TOCAQ.met	1.000	NPOC:10.29		Completed
13	Unknown	JC87667-1F		TOCAQ.met	1.000	NPOC:0.8273		Completed
14	Unknown	JC87667-2F		TOCAQ.met	1.000	NPOC:0.6153		Completed
15	Unknown	JC87667-3F		TOCAQ.met	1.000	NPOC:1.115	average 3	Completed
16	Unknown	JC87667-5F		TOCAQ.met	1.000	NPOC:0.2664		Completed
17	Unknown	CCVA		TOCAQ.met	1.000	NPOC:49.22		Completed
18	Unknown	CCB		TOCAQ.met	1.000	NPOC:0.0833		Completed
19	Unknown	JC87695-1F		TOCAQ.met	1.000	NPOC:27.28		Completed
20	Unknown	JC87695-2F		TOCAQ.met	1.000	NPOC:1.833		Completed
21	Unknown	JC87695-3F		TOCAQ.met	1.000	NPOC:190.2	rerun 1:10	Completed
22	Unknown	JC87695-4F		TOCAQ.met	1.000	NPOC:1.161		Completed
23	Unknown	JC87695-5F		TOCAQ.met	1.000	NPOC:2.189	average 3	Completed
24	Unknown	JC87695-6F		TOCAQ.met	1.000	NPOC:2.153		Completed
25	Unknown	GP21380-S1	JC87695-6F	TOCAQ.met	1.000	NPOC:13.26		Completed
26	Unknown	GP21380-MSD1	JC87695-6F	TOCAQ.met	1.000	NPOC:13.54		Completed
27	Unknown	CCV		TOCAQ.met	1.000	NPOC:24.58		Completed
28	Unknown	CCB		TOCAQ.met	1.000	NPOC:0.1570		Completed
29	Unknown	GP21381-MB1	DOC	TOCAQ.met	1.000	NPOC:-0.051		Completed
30	Unknown	GP21381-B1		TOCAQ.met	1.000	NPOC:9.962		Completed
31	Unknown	JC87695-7F		TOCAQ.met	1.000	NPOC:1.649		Completed
32	Unknown	JC87695-8F		TOCAQ.met	1.000	NPOC:5.053		Completed
33	Unknown	JC87695-9F		TOCAQ.met	1.000	NPOC:541.1	rerun 1:30	Completed
34	Unknown	JC87695-10F		TOCAQ.met	1.000	NPOC:767.4	rerun 1:30	Completed
35	Unknown	JC87695-11F		TOCAQ.met	1.000	NPOC:358.8	rerun 1:20	Completed
36	Unknown	GP21381-S1	JC87695-11F	TOCAQ.met	1.000	NPOC:348.9	rerun 1:30	Completed
37	Unknown	GP21381-MSD1	JC87695-11F	TOCAQ.met	1.000	NPOC:350.2		Completed
38	Unknown	JC87695-12F		TOCAQ.met	1.000	NPOC:3.210		Completed
39	Unknown	CCVA		TOCAQ.met	1.000	NPOC:50.60		Completed
40	Unknown	CCB		TOCAQ.met	1.000	NPOC:0.0814		Completed
41	Unknown	JC87767-11F		TOCAQ.met	1.000	NPOC:6.177		Completed
42	Unknown	JC87767-12F		TOCAQ.met	1.000	NPOC:8.536		Completed
43	Unknown	CCV		TOCAQ.met	1.000	NPOC:25.12		Completed
44	Unknown	CCB		TOCAQ.met	1.000	NPOC:0.0642		Completed
45	Unknown	SPARGERCHK		TOCAQ.met	1.000	NPOC:0.0296		Completed

GN95595 e90521w1.toc
CCV 5/22/19

5/22/2019 10:04:40 AM

SGS

GN Batch ID: GN95595
Date: 5/21/19

Test: **Total Organic Carbon**

Product: **TOC or DOC**

Method: **SM5310 B, C, or D-11, SW846 9060M** e90521w1.toc

Note: Refer to raw data and LIMS for information not shown below.

Autosampler Position #	Sample ID	pH	Diluton Factor	Bottle #	Comments
1	WASHCONF	<2			
2	CRI				
↓					
9	HSTD				
10	ICV				
11	ICB				
12	CCV				
13	CCB				
14	SPARGERCHK				
15	GP21321 MB2	TOC			
16	GP21321 B2				
17	JC87015-12		1:3	18	strong odor
18	GP21380 MB1	OOC			
19	GP21380 B1				
20	JC87667-1F			6	
21	JC87667-2F			6	
22	JC87667-3F			6	
23	JC87667-5F			6	
24	CCVA				
25	CCB				
26	JC87695-1F			8	
27	JC87695-2F			8	
28	JC87695-3F			8	
29	JC87695-4F			8	
30	JC87695-5F			8	
31	JC87695-6F			8	
32	GP21380 S1			8	JC87695-6F
33	GP21380 MSD1	↓		8	JC87695-6F

Analyst: CAO Date: 5/21/19 QCReviewer:_____ Date:_____

Comments: BSP: 500ul of 1000ppm KHP up to 50ml with DI H2O TV= 10 mg/L
MS/MSD: 200ul of 1000ppm KHP up to 20ml with sample TV= 10 mg/L
ICV: 5ml of 100ppm Sucrose up to 25ml with DI H2O TV=20 mg/L

Form: GN054-04
Rev. Date: 2/27/18

GN Batch ID: GN95595
Date: 5/21/19

Test: **Total Organic Carbon**

Product: **TOC or DOC**

Method: **SM5310 B, C, or D-11, SW846 9060M**

Note: Refer to raw data and LIMS for information not shown below.

Autosampler Position #	Sample ID	pH	Diluton Factor	Bottle #	Comments
~~37~~ 34	CCV	6.2			
35	CCB				
36	GP21381 MB1	ooc			
37	GP21381 B1				
38	JC87695-7F			8	
39	JC87695-8F			8	
40	JC87695-9F			8	
41	JC87695-10F			8	
42	JC87695-11F			23	
43	GP21381 S1			23	JC87695-11F
44	GP21381 MS01			23	JC87695-11F
45	JC87695-12F				
46	CCVA				
47	CCB				
48	JC87767-11F			1	
49	JC87767-12F			1	
50	CCV				
51	CCB				
52	SPARGERCHK				

Analyst: CZO Date: 5/21/19 QCReviewer: Date: 5/22/19

Comments:

Form: GN054-04
Rev. Date: 2/27/18

SGS

Analyst CZO Product TOC Autopipette #

Date 5/21/19 Batch ID GN95595 Class A Vol. Flask

Sample Dilution Prep Log

Sample ID	Dilution	Initial Volume	Final Volume	Comments
JC 87015-12	1:3	10	30	

QC Reviewer: Date: 5/21/19

Form: GN165-01
Rev. Date: 2/25/03

GN9559S

Reagent Information Log - TOC/DOC - Water

Reagent	Reagent # or Manufacturer/Lot	Exp. Date
Potassium Hydrogen Phthlate (KHP), Stock Solution 1000 mg/L	GNE3-57653-TOC	6/28/19
Carbonate/Bicarbonate Stock Solution	GNE3-57650-TOC	6/28/19
Sparger Check Solution	GNE4-57849-TOC	5/23/19
CCV Solution	GNE4-57847-TOC	5/23/19
CCVA Solution (50 ppm)	GNE4-57848-TOC	5/23/19
Spiking Solution	GNE3-57653-TOC	6/28/19
CRI Check	GNE4-57851-TOC	5/23/19
HCl	JT Baker 0000217157	3/20/21
pH Hydron paper	hydrion 232516	11/30/19
Sucrose solution	GNE4-57845-TOC	5/23/19
DOC Filter	IC Millex lot# R8BA17691	n/a

All standards and stocks were made as described in the SOP for this method (circle one): Y or N
If no (N), see attached page for standards prep.

Form: GN087A67-04
Rev. Date: 4/6/18

9.6

SGS

GENERAL CHEMISTRY STANDARD PREPARATION LOG

PRODUCT: Toc

(GN) or GP NUMBER: GN9SS9S

Intermediate Standard Description	Stock used to prepare standard	Stock concentration (mg/L)	Stock volume or weight used with units	Balance/ Autopipet ID (*)	Diluent	Final Volume (ml)	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
GNE3-57653-Toc	acros A0376652	KHP	2.125g	B-39	DI H_2O	1000mL	1000 ppm	6/28/19	CZD	4/25/19
GNE4-57850 Toc	GNE3 57653 Toc	1000ppm	20mL	class A pipet	↓	200mL	100 ppm	5/23/19	↓	↓
GNE4-57845-Toc	fisher 173322	sucrose	0.0474g	B-39	↓	200mL	100 ppm	↓	↓	↓

Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration (mg/L)	Intermediate or Stock volume used in ml	Balance/ Autopipet ID (*)	Diluent	Final Volume (ml)	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
KHP STDs										
GNE4-57851 Toc	GNE4-57850 Toc	100ppm	1.0	class A pipet	DI H_2O	100mL	1.0	5/23/19	CZD	4/25/19
GNE4-57852 Toc	↓	↓	2.0	↓	↓	↓	2.0	↓	↓	↓
GNE4-57853 Toc			5.0				5.0			
GNE4-57854 Toc			10.0				10.0			
GNE4-57855 Toc			20.0				20.0			
GNE4-57856 Toc			30.0				30.0			
GNE4-57857- Toc			50.0				50.0			
KHP STDs										
GNE4-57846 - Toc	acros A0383564	KHP	0.2125g	B-39	DI H_2O	100mL	100ppm	5/23/19	CZD	4/25/19
GNE4-57849 Toc	GNE4-57846-Toc	100ppm	50mL	class A pipet	↓	↓	25 ppm	↓	↓	↓
GNE4-57848 Toc	↓	↓	100mL	↓			50 ppm			

* If Class A glass pipets are used, enter an A For balances or autopipets, then enter the appropriate Accutest ID number.

DAYT-WET-0165-05-FORM-STD PREP
REV 9/17/18

TOC-Control L Report

e90521wl.toc tlx

Instr.Information

Instrument Options: TOC/ASI/Sparge Kit/
Catalyst: Regular Sensitivity

Sample

Sample Name:
Sample ID:
Origin: TOCAQ met
Status: Completed
Chk. Result:

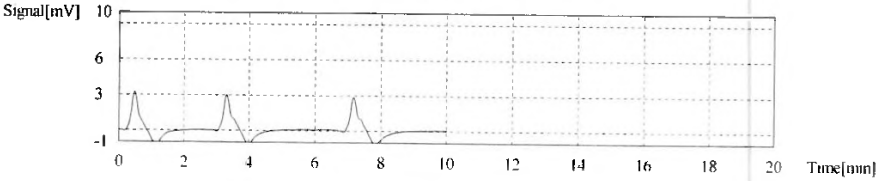
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.4212mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.174	0.4616mg/L	100uL	1.000		e90520w2 2019_05_20_14_02_49 cal	5/21/2019 11:05:45 AM
2	2.690	0.5720mg/L	100uL	1.000	E	e90520w2 2019_05_20_14_02_49 cal	5/21/2019 11:09:47 AM
3	1.796	0.3807mg/L	100uL	1.000		e90520w2 2019_05_20_14_02_49 cal	5/21/2019 11:13:22 AM

Mean Conc.: 0.4212mg/L
CV Conc: 13.57%



Cal. Curve

Sample Name: Untitled
Sample ID: Untitled
Cal. Curve: e90521wl 2019_05_21_11_13_22.cal
Status: Completed

Type	Anal.
Standard	NPOC

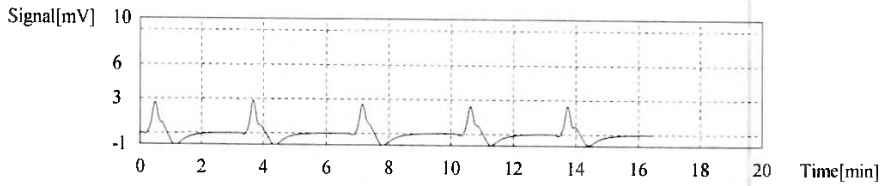
Conc. 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.277	100uL	1.000	*******	E	5/21/2019 11:19:16 AM
2	1.604	100uL	1.000	*******		5/21/2019 11:23:06 AM
3	1.645	100uL	1.000	*******		5/21/2019 11:26:55 AM
4	1.550	100uL	1.000	*******		5/21/2019 11:30:23 AM
5	1.467	100uL	1.000	*******		5/21/2019 11:33:54 AM

TOC-Control L Report

e90521wl toc tlx

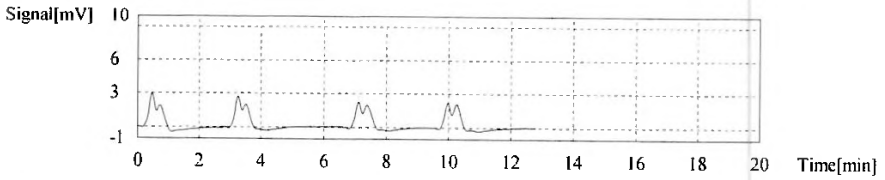
Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 1.567



Conc. 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	5.081	100uL	1.000	*******		5/21/2019 11:39:10 AM
2	5.474	100uL	1.000	*******		5/21/2019 11:43:20 AM
3	5.720	100uL	1.000	*******		5/21/2019 11:46:34 AM
4	5.329	100uL	1.000	*******		5/21/2019 11:50:13 AM

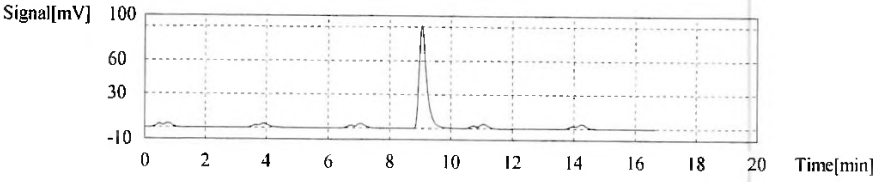
Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 5.401



Conc. 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	9.477	100uL	1.000	*******		5/21/2019 11:56:05 AM
2	10.27	100uL	1.000	*******		5/21/2019 11:59:31 AM
3	163.1	100uL	1.000	*******	E	5/21/2019 12:03:52 PM
4	10.11	100uL	1.000	*******		5/21/2019 12:07:27 PM
5	10.30	100uL	1.000	*******		5/21/2019 12:10:59 PM

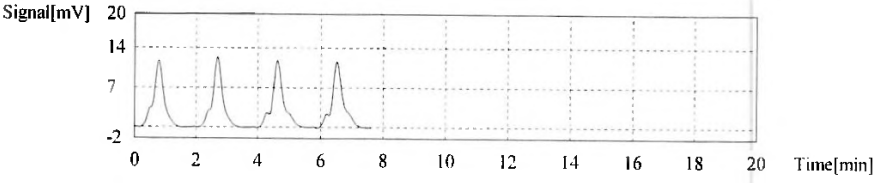
Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 10.04



Conc. 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	27.75	100uL	1.000	*******		5/21/2019 12:15:22 PM
2	28.14	100uL	1.000	*******		5/21/2019 12:17:37 PM
3	28.86	100uL	1.000	*******		5/21/2019 12:19:52 PM
4	28.87	100uL	1.000	*******		5/21/2019 12:22:07 PM

Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 28.41



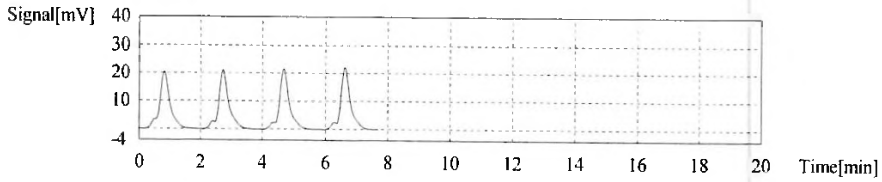
Conc. 10.00mg/L

TOC-Control L Report

e90521wl toc tlv

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	46.68	100uL	1.000	*******		5/21/2019 12:26:44 PM
2	46.98	100uL	1.000	*******		5/21/2019 12:29:01 PM
3	47.11	100uL	1.000	*******		5/21/2019 12:31:19 PM
4	47.57	100uL	1.000	*******		5/21/2019 12:33:34 PM

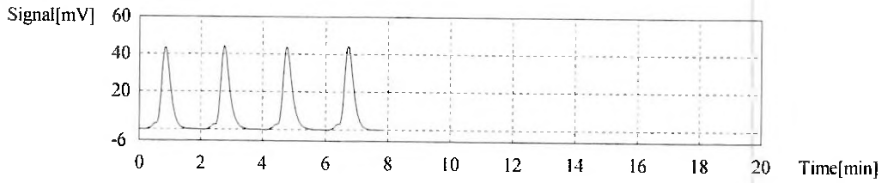
Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 47.08



Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	93.12	100uL	1.000	*******		5/21/2019 12:38:12 PM
2	93.66	100uL	1.000	*******		5/21/2019 12:40:33 PM
3	93.78	100uL	1.000	*******		5/21/2019 12:42:51 PM
4	93.79	100uL	1.000	*******		5/21/2019 12:45:06 PM

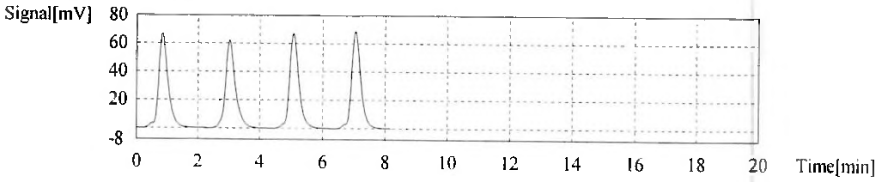
Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 93.59



Conc: 30.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	141.3	100uL	1.000	*******		5/21/2019 12:50:03 PM
2	136.7	100uL	1.000	*******		5/21/2019 12:52:24 PM
3	140.2	100uL	1.000	*******		5/21/2019 12:54:43 PM
4	141.4	100uL	1.000	*******		5/21/2019 12:57:02 PM

Acid Add. 0.000%
Sp. Time 600.0sec
Mean Area 139.9



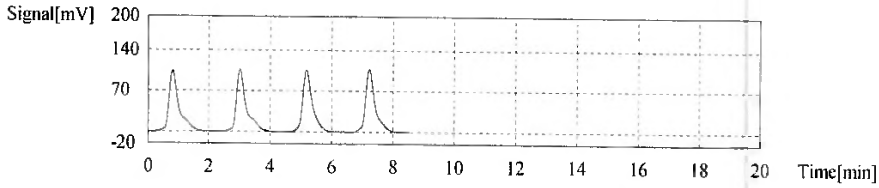
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	237.6	100uL	1.000	*******		5/21/2019 1:01:58 PM
2	238.8	100uL	1.000	*******		5/21/2019 1:04:29 PM
3	231.7	100uL	1.000	*******		5/21/2019 1:06:52 PM
4	234.5	100uL	1.000	*******		5/21/2019 1:09:20 PM

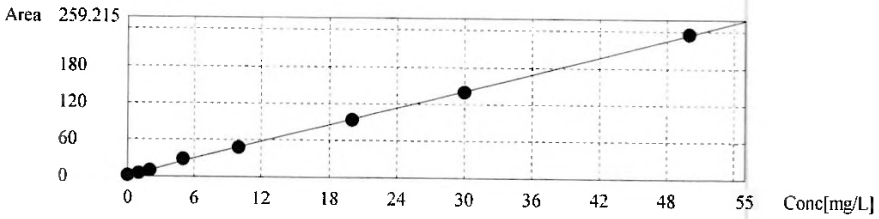
TOC-Control L Report

e90521wl toc tlx

Acid Add.	0.000%
Sp. Time	600.0sec
Mean Area	235.7



Slope	4.661
Intercept	1.453
r^2	0.9996
r	0.9998
Zero Shift	No



Sample

Sample Name:	ICV
Sample ID:	
Origin:	TOCAQ met
Status	Completed
Chk. Result	

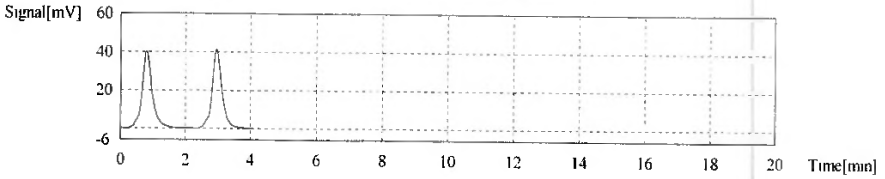
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 18.61mg/L

1. Det

Anal. NPOC

No.	Area	Conc	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	88.16	18.60mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 1:36:58 PM
2	88.20	18.61mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 1:39:05 PM

Mean Conc.	18.61mg/L
CV Conc	0.03%



Sample

Sample Name:	ICB
Sample ID:	
Origin.	TOCAQ met
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC -0.02111mg/L

TOC-Control L Report

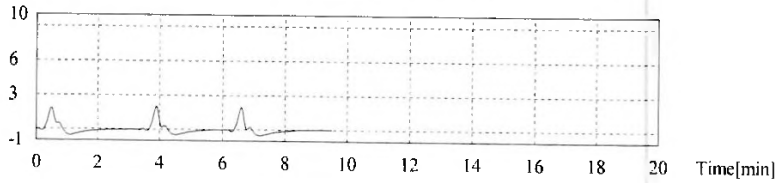
e90521wl toc tlx

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1 973	0 1116mg/L	100uL	1 000	E	e90521wl 2019_05_21_11_13_22 cal	5/21/2019 1 49 22 PM
2	1 499	0 00989mg/L	100uL	1 000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 1 52 15 PM
3	1 210	-0 05212mg/L	100uL	1 000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 1 55 50 PM

Mean Conc. -0 02111mg L
CV Conc -207 64%



Sample

Sample Name: CCV
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

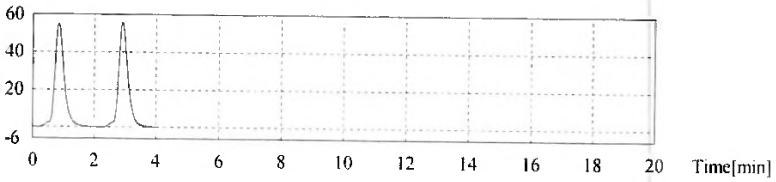
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 24 59mg/L

1 Det

Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	115 9	24 55mg/L	100uL	1 000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 2 00 45 PM
2	116 2	24 62mg/L	100uL	1 000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 2 02 56 PM

Mean Conc. 24 59mg L
CV Conc 0 19%



Sample

Sample Name: CCB
Sample ID:
Origin: TOCAQ met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1 000	NPOC 0 08122mg/L

TOC-Control L Report

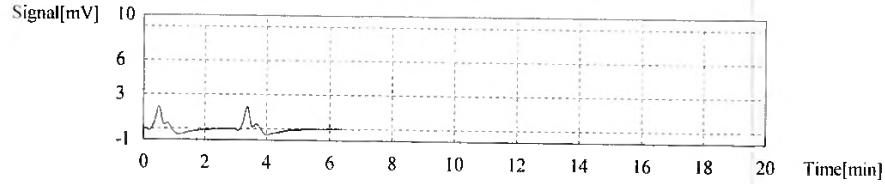
e90521wl toc tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.900	0.09592mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 2:12:44 PM
2	1.763	0.06653mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 2:16:29 PM

Mean Conc 0.08122mg/L
CV Conc 25.59%



Sample

Sample Name: SPARGERCHK
Sample ID:
Origin: TOCAQ met
Status Completed
Chk. Result

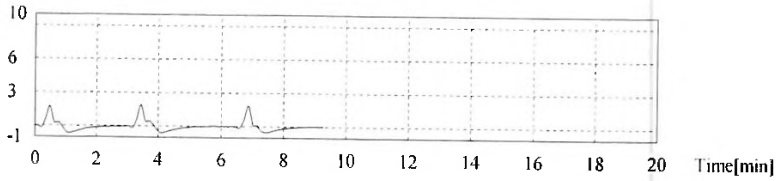
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC -0.05673mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9152	-0.1154mg/L	100uL	1.000	E	e90521wl 2019_05_21_11_13_22 cal	5/21/2019 2:23:57 PM
2	1.181	-0.05834mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 2:27:37 PM
3	1.196	-0.05512mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 2:30:42 PM

Mean Conc. -0.05673mg/L
CV Conc -4.01%



Sample

Sample Name: GP21321-MB2
Sample ID: TOC
Origin TOCAQ met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC -0.1907mg/L

TOC-Control L Report

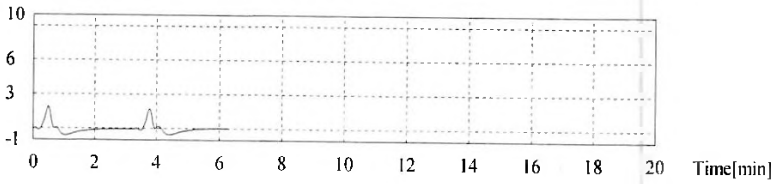
e90521w1 toc tlx

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6035	-0.1822mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 2:36:50 PM
2	0.5250	-0.1991mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 2:40:03 PM

Mean Conc. -0.1907mg/L
CV Conc -6.25%



Sample

Sample Name: GP21321-B2
Sample ID:
Origin: TOCAQ met
Status Completed
Chk Result

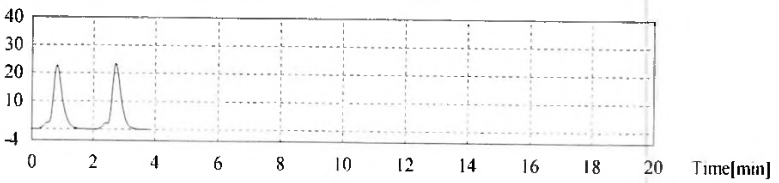
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 10.12mg/L

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.64	10.12mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 2:46:36 PM
2	48.58	10.11mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 2:48:45 PM

Mean Conc. 10.12mg/L
CV Conc 0.09%



Sample

Sample Name: JC87015-12
Sample ID:
Origin: TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	3.000	NPOC 52.44mg/L

TOC-Control L Report

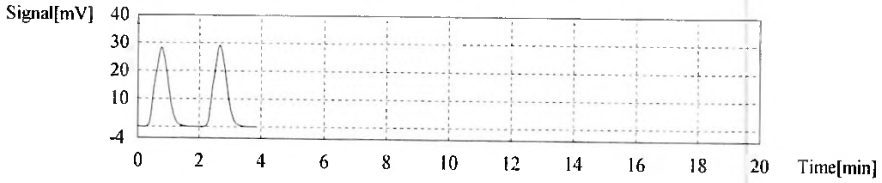
e90521w1 toc tk

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.78	52.34mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 3:38:08 PM
2	83.08	52.54mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 3:40:17 PM

Mean Conc. 52.44mg/L
CV Conc 0.26%



Sample

Sample Name: GP21380-MB1
Sample ID: DOC
Origin: TOCAQ.met
Status Completed
Chk. Result

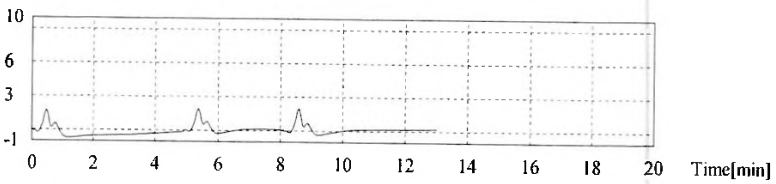
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.4536mg/L

1 Det

Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.3117mg/L	100uL	1.000	E	e90521w1 2019_05_21_11_13_22 cal	5/21/2019 3:52:18 PM
2	3.743	0.4913mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 3:55:46 PM
3	3.391	0.4158mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 4:00:55 PM

Mean Conc. 0.4536mg/L
CV Conc 11.77%



Sample

Sample Name: GP21380-B1
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 10.29mg/L

TOC-Control L Report

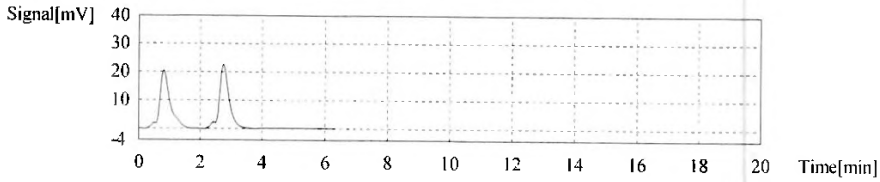
e90521w1 toc tlx

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.51	10.10mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 4:05:41 PM
2	50.30	10.48mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 4:10:15 PM

Mean Conc. 10.29mg/L
CV Conc 2.64%



Sample

Sample Name: JC87667-1F
Sample ID:
Origin: TOCAQ met
Status Completed
Chk Result

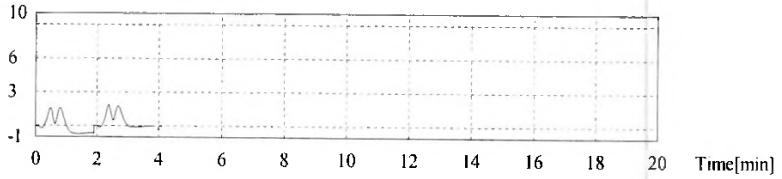
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.8273mg/L

1. Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.395	0.8457mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 4:42:43 PM
2	5.223	0.8088mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 4:44:52 PM

Mean Conc. 0.8273mg/L
CV Conc 3.15%



Sample

Sample Name: JC87667-2F
Sample ID:
Origin: TOCAQ met
Status Completed
Chk Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.6153mg/L

TOC-Control L Report

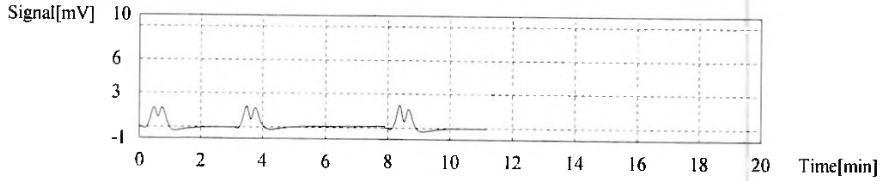
e90521wl toc tk

1. Det

Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.314	0.6138mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 4:54:59 PM
2	4.892	0.7378mg/L	100uL	1.000	E	e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:00:04 PM
3	4.328	0.6168mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:03:34 PM

Mean Conc. 0.6153mg/L
CV Conc 0.35%



Sample

Sample Name: JC87667-3F
Sample ID:
Origin: TOCAQ met
Status Completed
Chk. Result

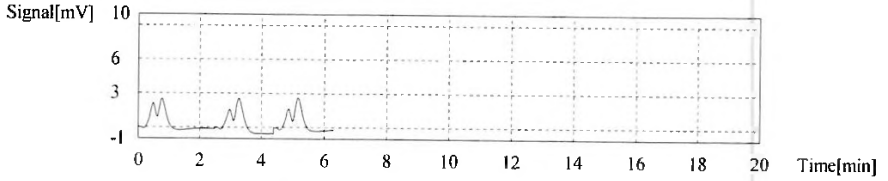
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 1.115mg/L

1. Det

Anal. NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.127	1.003mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:08:53 PM
2	6.975	1.185mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:11:02 PM
3	6.842	1.156mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:13:11 PM

Mean Conc. 1.115mg/L
CV Conc 8.78%



Sample

Sample Name: JC87667-5F
Sample ID:
Origin: TOCAQ met
Status Completed
Chk. Result

TOC-Control L Report

e90521wl toc tlx

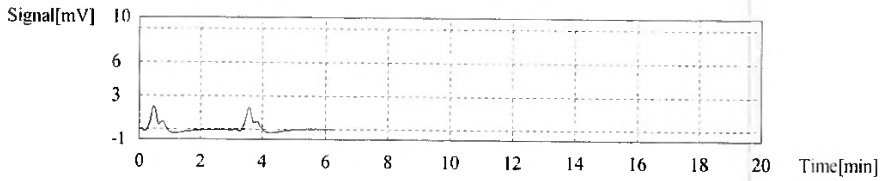
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.2664mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.738	0.2757mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:20:38 PM
2	2.651	0.2570mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:24:02 PM

Mean Conc. 0.2664mg/L
CV Conc 4.95%



Sample

Sample Name: CCVA
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

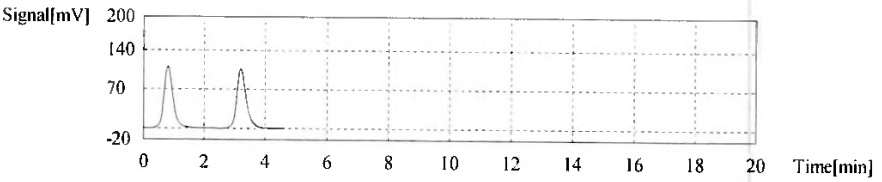
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 49.22mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	230.8	49.20mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:31:08 PM
2	230.9	49.23mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:33:37 PM

Mean Conc. 49.22mg/L
CV Conc 0.03%



Sample

Sample Name: CCB
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

TOC-Control L Report

e90521wl.toc tlx

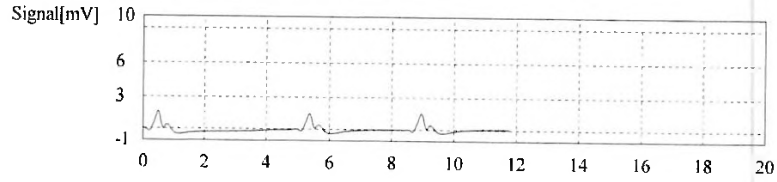
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.08337mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3187	-0.2433mg/L	100uL	1.000	E	e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:44:46 PM
2	1.618	0.03542mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:48:35 PM
3	2.065	0.1313mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:52:04 PM

Mean Conc. 0.08337mg/L
CV Conc 81.34%



Sample

Sample Name: JC87695-1F
Sample ID:
Origin TOCAQ met
Status Completed
Chk. Result

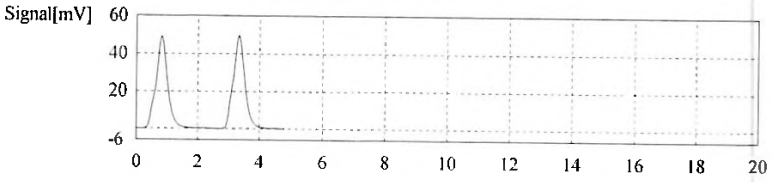
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 27.28mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	128.2	27.19mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:57:27 PM
2	129.0	27.36mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 5:59:56 PM

Mean Conc. 27.28mg/L
CV Conc 0.44%



Sample

Sample Name: JC87695-2F
Sample ID:
Origin TOCAQ met
Status Completed
Chk. Result

TOC-Control L Report

e90521wl.toc.tlx

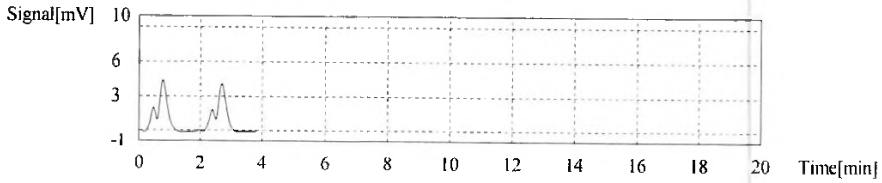
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 1.833mg/L

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.34	1.907mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:07:58 PM
2	9.655	1.760mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:10:07 PM

Mean Conc. 1.833mg/L
CV Conc 5.67%



Sample

Sample Name: JC87695-3F
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

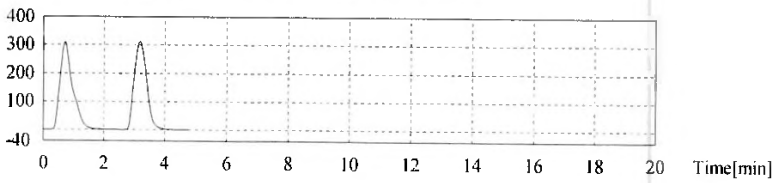
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 190.2mg/L

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	887.6	190.1mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:19:39 PM
2	888.6	190.3mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:22:14 PM

Mean Conc. 190.2mg/L
CV Conc 0.08%



Sample

Sample Name: JC87695-4F
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

TOC-Control L Report

e90521wl toc llx

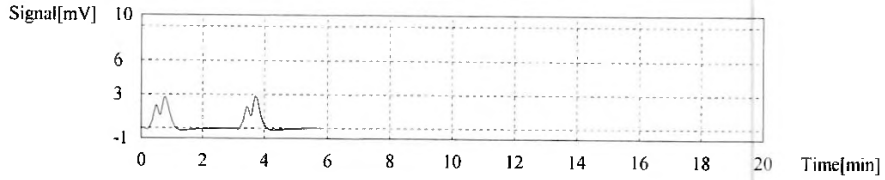
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 1.161mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.014	1.193mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:31:20 PM
2	6.713	1.129mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:34:26 PM

Mean Conc. 1.161mg/L
CV Conc 3.93%



Sample

Sample Name: JC87695-5F
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

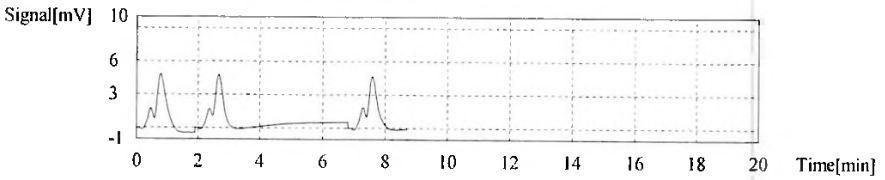
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 2.189mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.73	2.419mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:41:26 PM
2	10.94	2.035mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:46:35 PM
3	11.30	2.113mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 6:48:44 PM

Mean Conc. 2.189mg/L
CV Conc 9.28%



Sample

Sample Name: JC87695-6F
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

TOC-Control L Report

e90521wl toc tlx

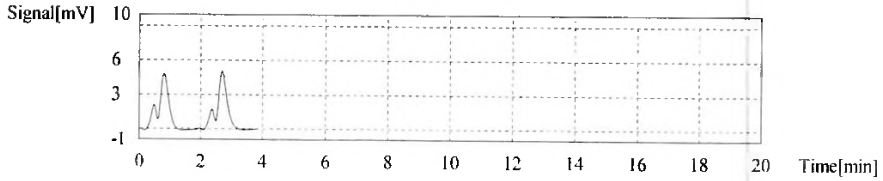
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 2.153mg/L

1 Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.46	2.147mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 7:04:51 PM
2	11.52	2.160mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 7:07:01 PM

Mean Conc. 2.153mg/L
CV Conc 0.42%



Sample

Sample Name: GP21380-S1
Sample ID: JC87695-6F
Origin: TOCAQ met
Status Completed
Chk. Result

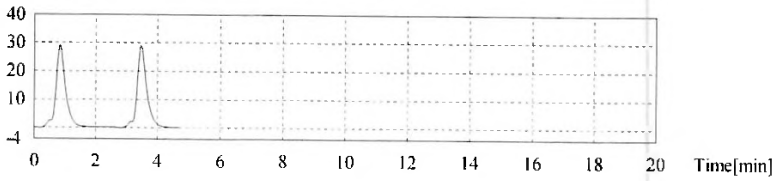
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 13.26mg/L

1 Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	64.01	13.42mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 7:16:46 PM
2	62.52	13.10mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 7:19:02 PM

Mean Conc. 13.26mg/L
CV Conc 1.70%



Sample

Sample Name: GP21380-MSD1
Sample ID: JC87695-6F
Origin: TOCAQ met
Status Completed
Chk. Result

TOC-Control L Report

e90521w1 toc dx

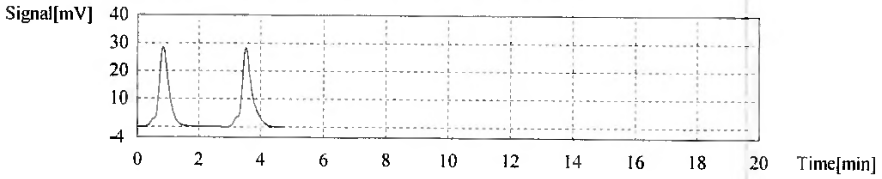
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 13.54mg/L

1 Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	64.83	13.60mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 7:28:01 PM
2	64.31	13.49mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 7:30:18 PM

Mean Conc. 13.54mg/L
CV Conc 0.58%



Sample

Sample Name: CCV
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

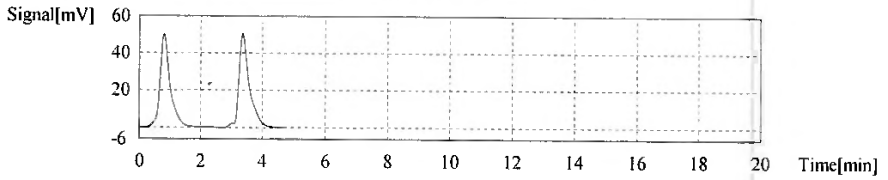
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 24.58mg/L

1 Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	115.1	24.38mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 7:39:00 PM
2	116.9	24.77mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 7:41:27 PM

Mean Conc. 24.58mg/L
CV Conc 1.11%



Sample

Sample Name: CCB
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

TOC-Control L Report

e90521wl.toc tlx

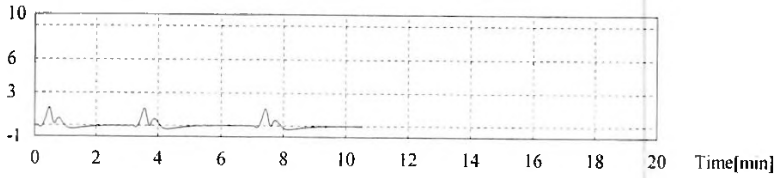
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.1570mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.505	0.2257mg/L	100uL	1.000	E	e90521wl 2019_05_21_11_13_22 cal	5/21/2019 7:50:44 PM
2	2.191	0.1583mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 7:54:50 PM
3	2.178	0.1556mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 7:58:35 PM

Mean Conc. 0.1570mg/L
CV Conc 1.26%



Sample

Sample Name: GP21381-MB1
Sample ID: DOC
Origin: TOCAQ met
Status Completed
Chk. Result

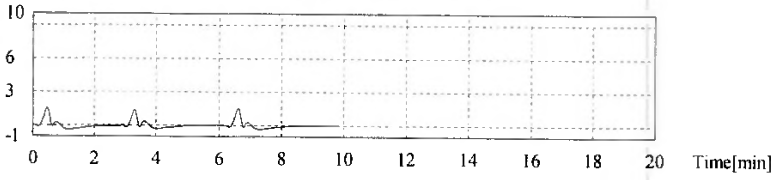
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC -0.05158mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9625	-0.1052mg/L	100uL	1.000	E	e90521wl 2019_05_21_11_13_22 cal	5/21/2019 8:04:17 PM
2	1.156	-0.06370mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 8:07:50 PM
3	1.269	-0.03946mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 8:11:40 PM

Mean Conc. -0.05158mg/L
CV Conc -33.24%



Sample

TOC-Control L Report

e90521wl toc tlx

Sample Name: GP21381-B1
Sample ID:
Origin: TOCAQ met
Status Completed
Chk Result

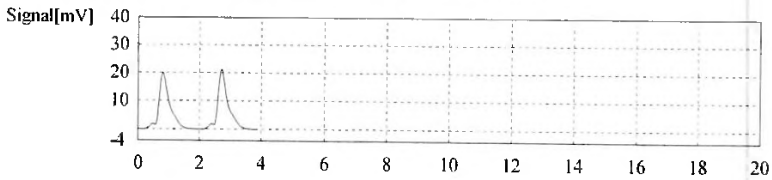
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 9.962mg/L

1 Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	47.70	9.922mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22.cal	5/21/2019 8:16:26 PM
2	48.07	10.00mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22.cal	5/21/2019 8:18:39 PM

Mean Conc. 9.962mg/L
CV Conc 0.56%



Sample

Sample Name: JC87695-7F
Sample ID:
Origin: TOCAQ met
Status Completed
Chk Result

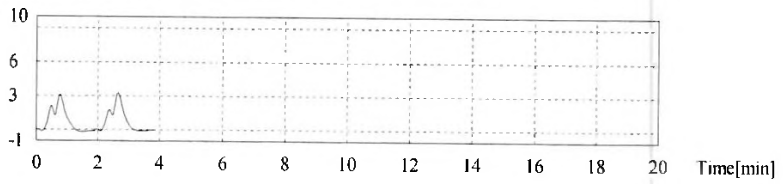
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 1.649mg/L

1 Det

Anal: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.212	1.665mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22.cal	5/21/2019 8:27:35 PM
2	9.065	1.633mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22.cal	5/21/2019 8:29:44 PM

Mean Conc. 1.649mg/L
CV Conc 1.35%



Sample

TOC-Control L Report

e90521w1 toc dx

Sample Name: JC87695-8F
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

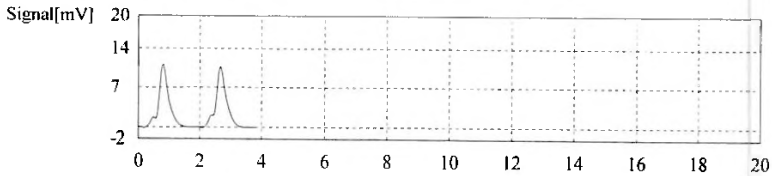
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 5.053mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.00	5.052mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 8:38:45 PM
2	25.01	5.054mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 8:40:54 PM

Mean Conc. 5.053mg/L
CV Conc 0.03%



Sample

Sample Name: JC87695-9F
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

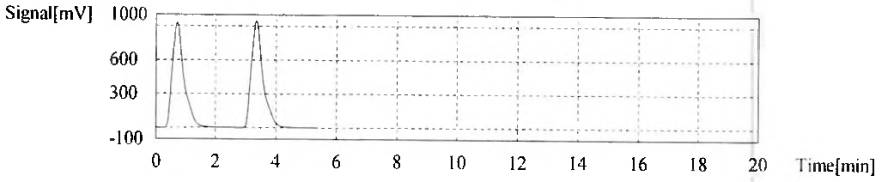
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 541.1mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2517	539.7mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 8:50:40 PM
2	2530	542.5mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 8:54:03 PM

Mean Conc. 541.1mg/L
CV Conc 0.36%



Sample

TOC-Control L Report

e90521w1.toc tlx

Sample Name: JC87695-10F
Sample ID:
Origin: TOCAQ.met
Status: Completed
Chk. Result:

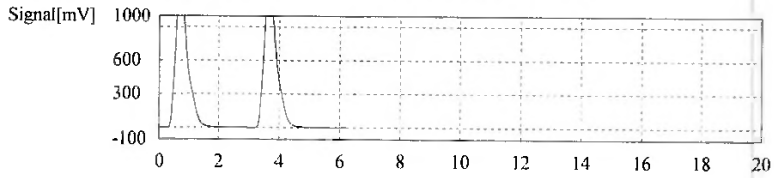
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 767.4mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3573	766.2mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 9:02:09 PM
2	3584	768.6mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 9:06:26 PM

Mean Conc. 767.4mg/L
CV Conc 0.22%



Sample

Sample Name: JC87695-11F
Sample ID:
Origin: TOCAQ.met
Status: Completed
Chk. Result:

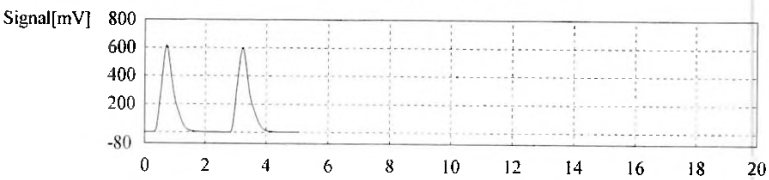
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 358.8mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1671	358.2mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 9:12:52 PM
2	1677	359.5mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 9:15:56 PM

Mean Conc. 358.8mg/L
CV Conc 0.25%



Sample

TOC-Control L Report

e90521w1 toc tlx

Sample Name GP21381-S1
Sample ID JC87695-11F
Origin TOCAQ.met
Status Completed
Chk Result

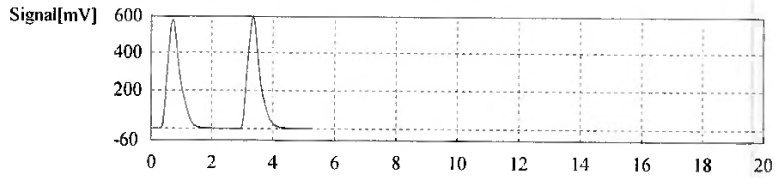
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 348.9mg/L

1. Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1622	347.7mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22.cal	5/21/2019 9:24:10 PM
2	1633	350.0mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22.cal	5/21/2019 9:27:03 PM

Mean Conc. 348.9mg/L
CV Conc 0.48%



Sample

Sample Name GP21381-MSD1
Sample ID JC87695-11F
Origin TOCAQ.met
Status Completed
Chk Result

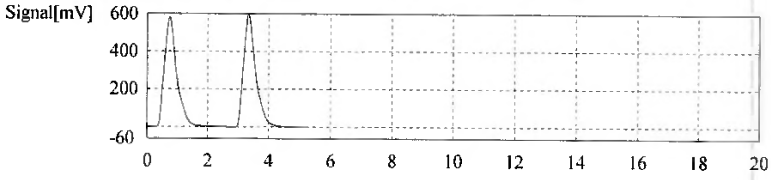
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 350.2mg/L

1 Det

Anal NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1632	349.8mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22.cal	5/21/2019 9:35:19 PM
2	1636	350.7mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22.cal	5/21/2019 9:38:22 PM

Mean Conc. 350.2mg/L
CV Conc 0.17%



Sample

TOC-Control L Report

e90521w1 toc tlx

Sample Name: JC87695-12F
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

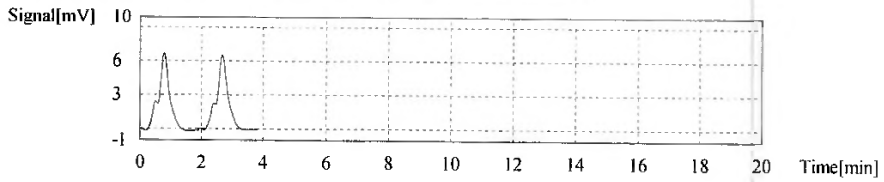
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 3.210mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.64	3.258mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 9:45:46 PM
2	16.19	3.162mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 9:47:55 PM

Mean Conc. 3.210mg/L
CV Conc 2.13%



Sample

Sample Name: CCVA
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

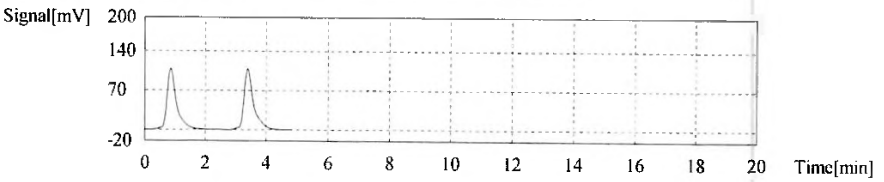
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 50.60mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	237.0	50.53mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 9:57:36 PM
2	237.6	50.66mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:00:05 PM

Mean Conc. 50.60mg/L
CV Conc 0.18%



Sample

TOC-Control L Report

e90521w1 toc tlx

Sample Name: CCB
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

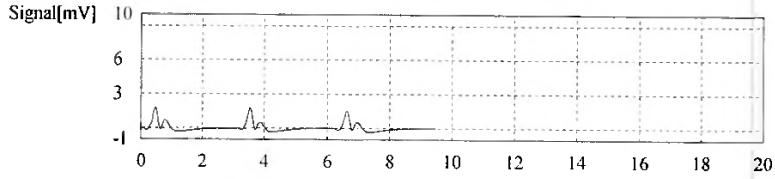
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.08144mg/L

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.695	0.2665mg/L	100uL	1.000	E	e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:09:17 PM
2	2.018	0.1212mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:12:37 PM
3	1.647	0.04164mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:16:07 PM

Mean Conc. 0.08144mg/L
CV Conc 69.11%



Sample

Sample Name: JC87767-11F
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

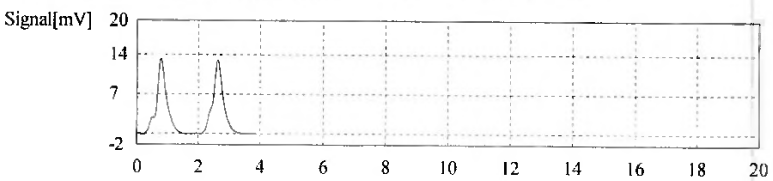
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 6.177mg/L

1 Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.25	6.178mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:20:52 PM
2	30.24	6.176mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:23:02 PM

Mean Conc. 6.177mg/L
CV Conc 0.02%



Sample

TOC-Control L Report

e90521w1 toc tlx

Sample Name: JC87767-12F
Sample ID:
Origin: TOCAQ met
Status Completed
Chk. Result

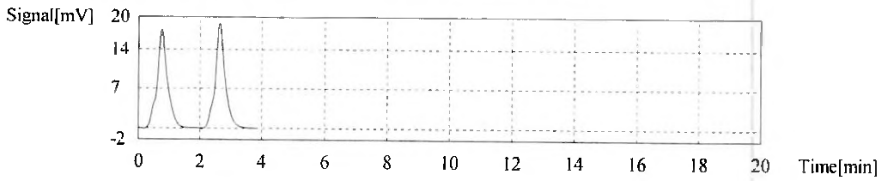
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 8.536mg/L

1. Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.93	8.469mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:32:02 PM
2	41.55	8.602mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:34:07 PM

Mean Conc. 8.536mg/L
CV Conc 1.10%



Sample

Sample Name: CCV
Sample ID:
Origin: TOCAQ met
Status Completed
Chk. Result

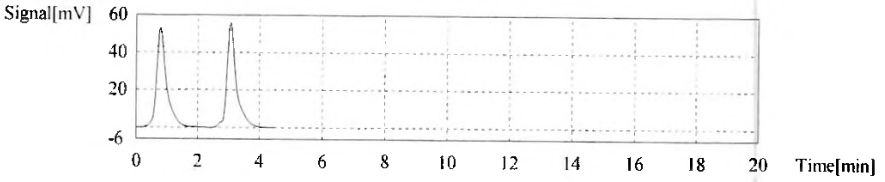
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 25.12mg/L

1. Det

Anal : NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	118.3	25.07mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:43:33 PM
2	118.8	25.18mg/L	100uL	1.000		e90521w1 2019_05_21_11_13_22 cal	5/21/2019 10:46:01 PM

Mean Conc. 25.12mg/L
CV Conc 0.30%



Sample

TOC-Control L Report

e90521wl toc dx

Sample Name: CCB
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

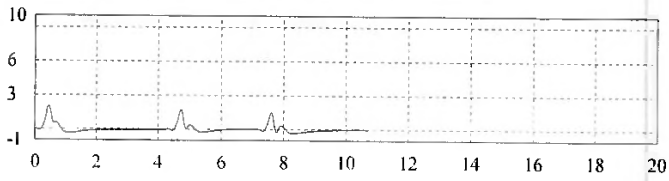
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.06427mg/L

1 Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.653	0.04293mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 10:56:44 PM
2	1.852	0.08562mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 10:59:52 PM
3	1.207	-0.05276mg/L	100uL	1.000	E	e90521wl 2019_05_21_11_13_22 cal	5/21/2019 11:03:37 PM

Mean Conc. 0.06427mg/L
CV Conc 46.97%



Sample

Sample Name: SPARGERCHK
Sample ID:
Origin: TOCAQ.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.02962mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.600	0.03156mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 11:09:58 PM
2	1.582	0.02769mg/L	100uL	1.000		e90521wl 2019_05_21_11_13_22 cal	5/21/2019 11:13:14 PM

Mean Conc. 0.02962mg/L
CV Conc 9.22%