ANALYTICAL REPORT

Job Number: 500-136132-1

Job Description: Ellsworth Industrial Park

For:
Ramboll Environ US Corporation
333 W Wacker Drive
Suite 2700
Chicago, IL 60606

Attention: Ross Jones

Approved for release.
Jim D Knapp
Project Manager II
11/9/2017 12:14 PM

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11/09/2017

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Definitions/Glossary

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
500-136132-1

Comments
No additional comments.

Receipt
The samples were received on 10/24/2017 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1º C.

GC/MS VOA
Method(s) 8260B: Methylene Chloride and Acetone were detected above the reporting limit in the following samples: OMW1D-GW-102317 (500-136132-1), EIP-DUP-102317 (500-136132-2), EIP-TB08-102317 (500-136132-3) and EIP-EB-102317 (500-136132-4). The method blank associated with these samples was non-detect for all compounds. Methylene Chloride and Acetone are known lab contaminant; therefore all low level detects for this compound should be suspected as lab contamination. All detects for Methylene Chloride and Acetone have been flagged with a "cn" flag to denote the suspected lab contamination.

Method(s) 8260B: The laboratory control sample (LCS) for 407232 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

Method(s) 8260B SIM: The BFB tune has the 176 failing at 95.0 percent as compared to the 174 areas. However based on the areas of 176 over 174 the percent works out to 95.048 which is greater than 95.0. Therefor the BFB tune passes. The samples that this tune is linked to are OMW1D-GW-102317 (500-136132-1), EIP-DUP-102317 (500-136132-2), (BFB 240-300683/1), (CCVIS 240-300683/3), (LCS 240-300683/4), (MB 240-300683/5) and (500-136015-A-3 MS).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) RSK-175: The associated RSK samples were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid hold time violations while the SOP is still waiting final approval signatures.

OMW1D-GW-102317 (500-136132-1), EIP-DUP-102317 (500-136132-2), (CCV 240-300908/19), (CCVRT 240-300908/3), (LCS 240-300908/5), (MB 240-300908/4), (240-86686-E-6), (240-86686-E-6 MS) and (240-86686-E-6 MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 300.0, 9056A: The continuing calibration verification (CCV) associated with batch 500-406966 recovered below the lower control limit for Chloride, Sulfate and Nitrate. The samples associated with this CCV were QC that met acceptance criteria for the affected analytes; therefore, the data have been reported. The following sample is impacted: (LCS 500-406966/56).

Method(s) 9056A: The IC5 Chloride and Sulfate matrix spike (MS) recovery for sample OMW1D-GW-102317 (500-136132-1) in analytical batch 500-406966 was outside control limits. The associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Client Sample ID: OMW1D-GW-102317 — Lab Sample ID: 500-136132-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0056	cn	0.0050	0.0017	mg/L	1		8260B	Total/NA
Bromodichloromethane	0.00082	J	0.0010	0.00037	mg/L	1		8260B	Total/NA
Chloroform	0.0049		0.0020	0.00037	mg/L	1		8260B	Total/NA
Methylene Chloride	0.0056	cn	0.0050	0.0016	mg/L	1		8260B	Total/NA
Toluene	0.00050		0.00050	0.00015	mg/L	1		8260B	Total/NA
Methane	1.6		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	0.30	J	1.0	0.10	ug/L	1		RSK-175	Total/NA
Chloride	61		2.0	1.7	mg/L	10		9056A	Total/NA
Sulfate	98	F1	2.0	0.95	mg/L	10		9056A	Total/NA
Total Organic Carbon - Duplicates	1.6		1.0	0.47	mg/L	1		9060A	Total/NA

Client Sample ID: EIP-DUP-102317 — Lab Sample ID: 500-136132-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0054	cn	0.0050	0.0017	mg/L	1		8260B	Total/NA
Bromodichloromethane	0.00081	J	0.0010	0.00037	mg/L	1		8260B	Total/NA
Chloroform	0.0049		0.0020	0.00037	mg/L	1		8260B	Total/NA
Methylene Chloride	0.0055	cn	0.0050	0.0016	mg/L	1		8260B	Total/NA
Toluene	0.00050		0.00050	0.00015	mg/L	1		8260B	Total/NA
Methane	1.4		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	0.37	J	1.0	0.10	ug/L	1		RSK-175	Total/NA
Ethylene	0.26	J	1.0	0.11	ug/L	1		RSK-175	Total/NA
Chloride	61		2.0	1.7	mg/L	10		9056A	Total/NA
Sulfate	90		4.0	1.9	mg/L	20		9056A	Total/NA
Total Organic Carbon - Duplicates	1.6		1.0	0.47	mg/L	1		9060A	Total/NA

Client Sample ID: EIP-TB08-102317 — Lab Sample ID: 500-136132-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0056	cn	0.0050	0.0016	mg/L	1		8260B	Total/NA

Client Sample ID: EIP-EB-102317 — Lab Sample ID: 500-136132-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0057	cn	0.0050	0.0016	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Client Sample ID: OMW1D-GW-102317

Lab Sample ID: 500-136132-1

Date Collected: 10/23/17 12:30

Matrix: Water

Date Received: 10/24/17 11:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.24	ug/L			10/26/17 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 125*		*10/26/17 13:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046	mg/L			10/27/17 13:23	1
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/L			10/27/17 13:23	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/L			10/27/17 13:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046	mg/L			10/27/17 13:23	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/L			10/27/17 13:23	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/L			10/27/17 13:23	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/L			10/27/17 13:23	1
1,1-Dichloropropene	ND		0.0010	0.00030	mg/L			10/27/17 13:23	1
1,2,3-Trichlorobenzene	ND		0.0010	0.00046	mg/L			10/27/17 13:23	1
1,2,3-Trichloropropane	ND		0.0010	0.00041	mg/L			10/27/17 13:23	1
1,2,4-Trichlorobenzene	ND		0.0010	0.00034	mg/L			10/27/17 13:23	1
1,2,4-Trimethylbenzene	ND		0.0010	0.00036	mg/L			10/27/17 13:23	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/L			10/27/17 13:23	1
1,2-Dibromoethane	ND		0.0010	0.00039	mg/L			10/27/17 13:23	1
1,2-Dichlorobenzene	ND		0.0010	0.00033	mg/L			10/27/17 13:23	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/L			10/27/17 13:23	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/L			10/27/17 13:23	1
1,3,5-Trimethylbenzene	ND		0.0010	0.00025	mg/L			10/27/17 13:23	1
1,3-Dichlorobenzene	ND		0.0010	0.00040	mg/L			10/27/17 13:23	1
1,3-Dichloropropane	ND		0.0010	0.00036	mg/L			10/27/17 13:23	1
1,4-Dichlorobenzene	ND		0.0010	0.00036	mg/L			10/27/17 13:23	1
1,4-Dioxane	ND		0.10	0.041	mg/L			10/27/17 13:23	1
2,2-Dichloropropane	ND		0.0010	0.00044	mg/L			10/27/17 13:23	1
2-Chloroethyl vinyl ether	ND		0.0020	0.00077	mg/L			10/27/17 13:23	1
2-Chlorotoluene	ND		0.0010	0.00031	mg/L			10/27/17 13:23	1
2-Hexanone	ND		0.0050	0.0016	mg/L			10/27/17 13:23	1
4-Chlorotoluene	ND		0.0010	0.00035	mg/L			10/27/17 13:23	1
Acetone	**0.0056**	**cn**	0.0050	0.0017	mg/L			10/27/17 13:23	1
Acrolein	ND		0.10	0.023	mg/L			10/27/17 13:23	1
Acrylonitrile	ND		0.020	0.0045	mg/L			10/27/17 13:23	1
Benzene	ND		0.00050	0.00015	mg/L			10/27/17 13:23	1
Bromobenzene	ND		0.0010	0.00036	mg/L			10/27/17 13:23	1
Bromochloromethane	ND		0.0010	0.00043	mg/L			10/27/17 13:23	1
Bromodichloromethane	**0.00082**	**J**	0.0010	0.00037	mg/L			10/27/17 13:23	1
Bromoform	ND		0.0010	0.00048	mg/L			10/27/17 13:23	1
Bromomethane	ND	*	0.0020	0.00080	mg/L			10/27/17 13:23	1
Carbon disulfide	ND		0.0020	0.00045	mg/L			10/27/17 13:23	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/L			10/27/17 13:23	1
Chlorobenzene	ND		0.0010	0.00039	mg/L			10/27/17 13:23	1
Chloroethane	ND		0.0010	0.00051	mg/L			10/27/17 13:23	1
Chloroform	**0.0049**		0.0020	0.00037	mg/L			10/27/17 13:23	1
Chloromethane	ND		0.0010	0.00032	mg/L			10/27/17 13:23	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/L			10/27/17 13:23	1

Client Sample ID: OMW1D-GW-102317

Lab Sample ID: 500-136132-1

Date Collected: 10/23/17 12:30

Matrix: Water

Date Received: 10/24/17 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/L			10/27/17 13:23	1
Cyclohexane	ND		0.0010	0.00049	mg/L			10/27/17 13:23	1
Dibromochloromethane	ND		0.0010	0.00049	mg/L			10/27/17 13:23	1
Dibromomethane	ND		0.0010	0.00027	mg/L			10/27/17 13:23	1
Dichlorodifluoromethane	ND		0.0020	0.00067	mg/L			10/27/17 13:23	1
Ethylbenzene	ND		0.00050	0.00018	mg/L			10/27/17 13:23	1
Iodomethane	ND		0.0025	0.00066	mg/L			10/27/17 13:23	1
Isopropyl ether	ND		0.0010	0.00028	mg/L			10/27/17 13:23	1
Isopropylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 13:23	1
Methyl acetate	ND		0.0050	0.0020	mg/L			10/27/17 13:23	1
Methyl Ethyl Ketone	ND		0.0050	0.0021	mg/L			10/27/17 13:23	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/L			10/27/17 13:23	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/L			10/27/17 13:23	1
Methylcyclohexane	ND		0.0010	0.00032	mg/L			10/27/17 13:23	1
Methylene Chloride	**0.0056**	**cn**	0.0050	0.0016	mg/L			10/27/17 13:23	1
Naphthalene	ND		0.0010	0.00034	mg/L			10/27/17 13:23	1
n-Butylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 13:23	1
N-Propylbenzene	ND		0.0010	0.00041	mg/L			10/27/17 13:23	1
p-Isopropyltoluene	ND		0.0010	0.00036	mg/L			10/27/17 13:23	1
sec-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 13:23	1
Styrene	ND		0.0010	0.00039	mg/L			10/27/17 13:23	1
Tert-amyl methyl ether	ND		0.0010	0.00040	mg/L			10/27/17 13:23	1
tert-Butyl alcohol	ND		0.050	0.012	mg/L			10/27/17 13:23	1
Tert-butyl ethyl ether	ND		0.0010	0.00026	mg/L			10/27/17 13:23	1
tert-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 13:23	1
Tetrachloroethene	ND		0.0010	0.00037	mg/L			10/27/17 13:23	1
Toluene	**0.00050**		0.00050	0.00015	mg/L			10/27/17 13:23	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/L			10/27/17 13:23	1
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/L			10/27/17 13:23	1
trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012	mg/L			10/27/17 13:23	1
Trichloroethene	ND		0.00050	0.00016	mg/L			10/27/17 13:23	1
Trichlorofluoromethane	ND		0.0010	0.00043	mg/L			10/27/17 13:23	1
Vinyl acetate	ND		0.0020	0.00091	mg/L			10/27/17 13:23	1
Vinyl chloride	ND		0.00050	0.00020	mg/L			10/27/17 13:23	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			10/27/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*10/27/17 13:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*10/27/17 13:23*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*10/27/17 13:23*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*10/27/17 13:23*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1.6**		1.0	0.17	ug/L			10/27/17 14:16	1
Ethane	**0.30**	**J**	1.0	0.10	ug/L			10/27/17 14:16	1
Ethylene	ND		1.0	0.11	ug/L			10/27/17 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*87*		*60 - 140*		*10/27/17 14:16*	*1*

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Client Sample ID: OMW1D-GW-102317

Lab Sample ID: 500-136132-1

Date Collected: 10/23/17 12:30

Matrix: Water

Date Received: 10/24/17 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61**		2.0	1.7	mg/L			10/24/17 22:55	10
Nitrate as N	ND		0.20	0.068	mg/L			10/24/17 22:43	1
Sulfate	**98**	**F1**	2.0	0.95	mg/L			10/24/17 22:55	10
Total Organic Carbon - Duplicates	**1.6**		1.0	0.47	mg/L			10/27/17 05:01	1
Sulfide	ND		1.0	0.23	mg/L			10/26/17 08:53	1

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Client Sample ID: EIP-DUP-102317

Lab Sample ID: 500-136132-2

Date Collected: 10/23/17 12:30
Matrix: Water
Date Received: 10/24/17 11:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.24	ug/L			10/26/17 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 125*		*10/26/17 13:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046	mg/L			10/27/17 13:48	1
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/L			10/27/17 13:48	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/L			10/27/17 13:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046	mg/L			10/27/17 13:48	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/L			10/27/17 13:48	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/L			10/27/17 13:48	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/L			10/27/17 13:48	1
1,1-Dichloropropene	ND		0.0010	0.00030	mg/L			10/27/17 13:48	1
1,2,3-Trichlorobenzene	ND		0.0010	0.00046	mg/L			10/27/17 13:48	1
1,2,3-Trichloropropane	ND		0.0010	0.00041	mg/L			10/27/17 13:48	1
1,2,4-Trichlorobenzene	ND		0.0010	0.00034	mg/L			10/27/17 13:48	1
1,2,4-Trimethylbenzene	ND		0.0010	0.00036	mg/L			10/27/17 13:48	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/L			10/27/17 13:48	1
1,2-Dibromoethane	ND		0.0010	0.00039	mg/L			10/27/17 13:48	1
1,2-Dichlorobenzene	ND		0.0010	0.00033	mg/L			10/27/17 13:48	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/L			10/27/17 13:48	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/L			10/27/17 13:48	1
1,3,5-Trimethylbenzene	ND		0.0010	0.00025	mg/L			10/27/17 13:48	1
1,3-Dichlorobenzene	ND		0.0010	0.00040	mg/L			10/27/17 13:48	1
1,3-Dichloropropane	ND		0.0010	0.00036	mg/L			10/27/17 13:48	1
1,4-Dichlorobenzene	ND		0.0010	0.00036	mg/L			10/27/17 13:48	1
1,4-Dioxane	ND		0.10	0.041	mg/L			10/27/17 13:48	1
2,2-Dichloropropane	ND		0.0010	0.00044	mg/L			10/27/17 13:48	1
2-Chloroethyl vinyl ether	ND		0.0020	0.00077	mg/L			10/27/17 13:48	1
2-Chlorotoluene	ND		0.0010	0.00031	mg/L			10/27/17 13:48	1
2-Hexanone	ND		0.0050	0.0016	mg/L			10/27/17 13:48	1
4-Chlorotoluene	ND		0.0010	0.00035	mg/L			10/27/17 13:48	1
Acetone	**0.0054**	**cn**	0.0050	0.0017	mg/L			10/27/17 13:48	1
Acrolein	ND		0.10	0.023	mg/L			10/27/17 13:48	1
Acrylonitrile	ND		0.020	0.0045	mg/L			10/27/17 13:48	1
Benzene	ND		0.00050	0.00015	mg/L			10/27/17 13:48	1
Bromobenzene	ND		0.0010	0.00036	mg/L			10/27/17 13:48	1
Bromochloromethane	ND		0.0010	0.00043	mg/L			10/27/17 13:48	1
Bromodichloromethane	**0.00081**	**J**	0.0010	0.00037	mg/L			10/27/17 13:48	1
Bromoform	ND		0.0010	0.00048	mg/L			10/27/17 13:48	1
Bromomethane	ND	*	0.0020	0.00080	mg/L			10/27/17 13:48	1
Carbon disulfide	ND		0.0020	0.00045	mg/L			10/27/17 13:48	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/L			10/27/17 13:48	1
Chlorobenzene	ND		0.0010	0.00039	mg/L			10/27/17 13:48	1
Chloroethane	ND		0.0010	0.00051	mg/L			10/27/17 13:48	1
Chloroform	**0.0049**		0.0020	0.00037	mg/L			10/27/17 13:48	1
Chloromethane	ND		0.0010	0.00032	mg/L			10/27/17 13:48	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/L			10/27/17 13:48	1

Client Sample ID: EIP-DUP-102317

Date Collected: 10/23/17 12:30
Date Received: 10/24/17 11:00

Lab Sample ID: 500-136132-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/L			10/27/17 13:48	1
Cyclohexane	ND		0.0010	0.00049	mg/L			10/27/17 13:48	1
Dibromochloromethane	ND		0.0010	0.00049	mg/L			10/27/17 13:48	1
Dibromomethane	ND		0.0010	0.00027	mg/L			10/27/17 13:48	1
Dichlorodifluoromethane	ND		0.0020	0.00067	mg/L			10/27/17 13:48	1
Ethylbenzene	ND		0.00050	0.00018	mg/L			10/27/17 13:48	1
Iodomethane	ND		0.0025	0.00066	mg/L			10/27/17 13:48	1
Isopropyl ether	ND		0.0010	0.00028	mg/L			10/27/17 13:48	1
Isopropylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 13:48	1
Methyl acetate	ND		0.0050	0.0020	mg/L			10/27/17 13:48	1
Methyl Ethyl Ketone	ND		0.0050	0.0021	mg/L			10/27/17 13:48	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/L			10/27/17 13:48	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/L			10/27/17 13:48	1
Methylcyclohexane	ND		0.0010	0.00032	mg/L			10/27/17 13:48	1
Methylene Chloride	**0.0055**	**cn**	0.0050	0.0016	mg/L			10/27/17 13:48	1
Naphthalene	ND		0.0010	0.00034	mg/L			10/27/17 13:48	1
n-Butylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 13:48	1
N-Propylbenzene	ND		0.0010	0.00041	mg/L			10/27/17 13:48	1
p-Isopropyltoluene	ND		0.0010	0.00036	mg/L			10/27/17 13:48	1
sec-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 13:48	1
Styrene	ND		0.0010	0.00039	mg/L			10/27/17 13:48	1
Tert-amyl methyl ether	ND		0.0010	0.00040	mg/L			10/27/17 13:48	1
tert-Butyl alcohol	ND		0.050	0.012	mg/L			10/27/17 13:48	1
Tert-butyl ethyl ether	ND		0.0010	0.00026	mg/L			10/27/17 13:48	1
tert-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 13:48	1
Tetrachloroethene	ND		0.0010	0.00037	mg/L			10/27/17 13:48	1
Toluene	**0.00050**		0.00050	0.00015	mg/L			10/27/17 13:48	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/L			10/27/17 13:48	1
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/L			10/27/17 13:48	1
trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012	mg/L			10/27/17 13:48	1
Trichloroethene	ND		0.00050	0.00016	mg/L			10/27/17 13:48	1
Trichlorofluoromethane	ND		0.0010	0.00043	mg/L			10/27/17 13:48	1
Vinyl acetate	ND		0.0020	0.00091	mg/L			10/27/17 13:48	1
Vinyl chloride	ND		0.00050	0.00020	mg/L			10/27/17 13:48	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			10/27/17 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*10/27/17 13:48*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*10/27/17 13:48*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*10/27/17 13:48*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*10/27/17 13:48*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1.4**		1.0	0.17	ug/L			10/27/17 14:33	1
Ethane	**0.37**	**J**	1.0	0.10	ug/L			10/27/17 14:33	1
Ethylene	**0.26**	**J**	1.0	0.11	ug/L			10/27/17 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*86*		*60 - 140*		*10/27/17 14:33*	*1*

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Client Sample ID: EIP-DUP-102317

Lab Sample ID: 500-136132-2

Date Collected: 10/23/17 12:30

Matrix: Water

Date Received: 10/24/17 11:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61**		2.0	1.7	mg/L			10/25/17 00:09	10
Nitrate as N	ND		0.20	0.068	mg/L			10/24/17 23:57	1
Sulfate	**90**		4.0	1.9	mg/L			11/04/17 16:51	20
Total Organic Carbon - Duplicates	**1.6**		1.0	0.47	mg/L			10/27/17 05:20	1
Sulfide	ND		1.0	0.23	mg/L			10/26/17 08:56	1

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Client Sample ID: EIP-TB08-102317

Date Collected: 10/23/17 00:00
Date Received: 10/24/17 11:00

Lab Sample ID: 500-136132-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046	mg/L			10/27/17 14:13	1
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/L			10/27/17 14:13	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/L			10/27/17 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046	mg/L			10/27/17 14:13	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/L			10/27/17 14:13	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/L			10/27/17 14:13	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/L			10/27/17 14:13	1
1,1-Dichloropropene	ND		0.0010	0.00030	mg/L			10/27/17 14:13	1
1,2,3-Trichlorobenzene	ND		0.0010	0.00046	mg/L			10/27/17 14:13	1
1,2,3-Trichloropropane	ND		0.0010	0.00041	mg/L			10/27/17 14:13	1
1,2,4-Trichlorobenzene	ND		0.0010	0.00034	mg/L			10/27/17 14:13	1
1,2,4-Trimethylbenzene	ND		0.0010	0.00036	mg/L			10/27/17 14:13	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/L			10/27/17 14:13	1
1,2-Dibromoethane	ND		0.0010	0.00039	mg/L			10/27/17 14:13	1
1,2-Dichlorobenzene	ND		0.0010	0.00033	mg/L			10/27/17 14:13	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/L			10/27/17 14:13	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/L			10/27/17 14:13	1
1,3,5-Trimethylbenzene	ND		0.0010	0.00025	mg/L			10/27/17 14:13	1
1,3-Dichlorobenzene	ND		0.0010	0.00040	mg/L			10/27/17 14:13	1
1,3-Dichloropropane	ND		0.0010	0.00036	mg/L			10/27/17 14:13	1
1,4-Dichlorobenzene	ND		0.0010	0.00036	mg/L			10/27/17 14:13	1
1,4-Dioxane	ND		0.10	0.041	mg/L			10/27/17 14:13	1
2,2-Dichloropropane	ND		0.0010	0.00044	mg/L			10/27/17 14:13	1
2-Chloroethyl vinyl ether	ND		0.0020	0.00077	mg/L			10/27/17 14:13	1
2-Chlorotoluene	ND		0.0010	0.00031	mg/L			10/27/17 14:13	1
2-Hexanone	ND		0.0050	0.0016	mg/L			10/27/17 14:13	1
4-Chlorotoluene	ND		0.0010	0.00035	mg/L			10/27/17 14:13	1
Acetone	ND		0.0050	0.0017	mg/L			10/27/17 14:13	1
Acrolein	ND		0.10	0.023	mg/L			10/27/17 14:13	1
Acrylonitrile	ND		0.020	0.0045	mg/L			10/27/17 14:13	1
Benzene	ND		0.00050	0.00015	mg/L			10/27/17 14:13	1
Bromobenzene	ND		0.0010	0.00036	mg/L			10/27/17 14:13	1
Bromochloromethane	ND		0.0010	0.00043	mg/L			10/27/17 14:13	1
Bromodichloromethane	ND		0.0010	0.00037	mg/L			10/27/17 14:13	1
Bromoform	ND		0.0010	0.00048	mg/L			10/27/17 14:13	1
Bromomethane	ND	*	0.0020	0.00080	mg/L			10/27/17 14:13	1
Carbon disulfide	ND		0.0020	0.00045	mg/L			10/27/17 14:13	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/L			10/27/17 14:13	1
Chlorobenzene	ND		0.0010	0.00039	mg/L			10/27/17 14:13	1
Chloroethane	ND		0.0010	0.00051	mg/L			10/27/17 14:13	1
Chloroform	ND		0.0020	0.00037	mg/L			10/27/17 14:13	1
Chloromethane	ND		0.0010	0.00032	mg/L			10/27/17 14:13	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/L			10/27/17 14:13	1
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/L			10/27/17 14:13	1
Cyclohexane	ND		0.0010	0.00049	mg/L			10/27/17 14:13	1
Dibromochloromethane	ND		0.0010	0.00049	mg/L			10/27/17 14:13	1
Dibromomethane	ND		0.0010	0.00027	mg/L			10/27/17 14:13	1
Dichlorodifluoromethane	ND		0.0020	0.00067	mg/L			10/27/17 14:13	1
Ethylbenzene	ND		0.00050	0.00018	mg/L			10/27/17 14:13	1

Client Sample ID: EIP-TB08-102317

Date Collected: 10/23/17 00:00
Date Received: 10/24/17 11:00

Lab Sample ID: 500-136132-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		0.0025	0.00066	mg/L			10/27/17 14:13	1
Isopropyl ether	ND		0.0010	0.00028	mg/L			10/27/17 14:13	1
Isopropylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 14:13	1
Methyl acetate	ND		0.0050	0.0020	mg/L			10/27/17 14:13	1
Methyl Ethyl Ketone	ND		0.0050	0.0021	mg/L			10/27/17 14:13	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/L			10/27/17 14:13	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/L			10/27/17 14:13	1
Methylcyclohexane	ND		0.0010	0.00032	mg/L			10/27/17 14:13	1
Methylene Chloride	**0.0056**	**cn**	0.0050	0.0016	mg/L			10/27/17 14:13	1
Naphthalene	ND		0.0010	0.00034	mg/L			10/27/17 14:13	1
n-Butylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 14:13	1
N-Propylbenzene	ND		0.0010	0.00041	mg/L			10/27/17 14:13	1
p-Isopropyltoluene	ND		0.0010	0.00036	mg/L			10/27/17 14:13	1
sec-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 14:13	1
Styrene	ND		0.0010	0.00039	mg/L			10/27/17 14:13	1
Tert-amyl methyl ether	ND		0.0010	0.00040	mg/L			10/27/17 14:13	1
tert-Butyl alcohol	ND		0.050	0.012	mg/L			10/27/17 14:13	1
Tert-butyl ethyl ether	ND		0.0010	0.00026	mg/L			10/27/17 14:13	1
tert-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 14:13	1
Tetrachloroethene	ND		0.0010	0.00037	mg/L			10/27/17 14:13	1
Toluene	ND		0.00050	0.00015	mg/L			10/27/17 14:13	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/L			10/27/17 14:13	1
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/L			10/27/17 14:13	1
trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012	mg/L			10/27/17 14:13	1
Trichloroethene	ND		0.00050	0.00016	mg/L			10/27/17 14:13	1
Trichlorofluoromethane	ND		0.0010	0.00043	mg/L			10/27/17 14:13	1
Vinyl acetate	ND		0.0020	0.00091	mg/L			10/27/17 14:13	1
Vinyl chloride	ND		0.00050	0.00020	mg/L			10/27/17 14:13	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			10/27/17 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*10/27/17 14:13*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*10/27/17 14:13*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*10/27/17 14:13*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*10/27/17 14:13*	*1*

Client Sample ID: EIP-EB-102317

Lab Sample ID: 500-136132-4

Date Collected: 10/23/17 13:50

Matrix: Water

Date Received: 10/24/17 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046	mg/L			10/27/17 14:38	1
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/L			10/27/17 14:38	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/L			10/27/17 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046	mg/L			10/27/17 14:38	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/L			10/27/17 14:38	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/L			10/27/17 14:38	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/L			10/27/17 14:38	1
1,1-Dichloropropene	ND		0.0010	0.00030	mg/L			10/27/17 14:38	1
1,2,3-Trichlorobenzene	ND		0.0010	0.00046	mg/L			10/27/17 14:38	1
1,2,3-Trichloropropane	ND		0.0010	0.00041	mg/L			10/27/17 14:38	1
1,2,4-Trichlorobenzene	ND		0.0010	0.00034	mg/L			10/27/17 14:38	1
1,2,4-Trimethylbenzene	ND		0.0010	0.00036	mg/L			10/27/17 14:38	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/L			10/27/17 14:38	1
1,2-Dibromoethane	ND		0.0010	0.00039	mg/L			10/27/17 14:38	1
1,2-Dichlorobenzene	ND		0.0010	0.00033	mg/L			10/27/17 14:38	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/L			10/27/17 14:38	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/L			10/27/17 14:38	1
1,3,5-Trimethylbenzene	ND		0.0010	0.00025	mg/L			10/27/17 14:38	1
1,3-Dichlorobenzene	ND		0.0010	0.00040	mg/L			10/27/17 14:38	1
1,3-Dichloropropane	ND		0.0010	0.00036	mg/L			10/27/17 14:38	1
1,4-Dichlorobenzene	ND		0.0010	0.00036	mg/L			10/27/17 14:38	1
1,4-Dioxane	ND		0.10	0.041	mg/L			10/27/17 14:38	1
2,2-Dichloropropane	ND		0.0010	0.00044	mg/L			10/27/17 14:38	1
2-Chloroethyl vinyl ether	ND		0.0020	0.00077	mg/L			10/27/17 14:38	1
2-Chlorotoluene	ND		0.0010	0.00031	mg/L			10/27/17 14:38	1
2-Hexanone	ND		0.0050	0.0016	mg/L			10/27/17 14:38	1
4-Chlorotoluene	ND		0.0010	0.00035	mg/L			10/27/17 14:38	1
Acetone	ND		0.0050	0.0017	mg/L			10/27/17 14:38	1
Acrolein	ND		0.10	0.023	mg/L			10/27/17 14:38	1
Acrylonitrile	ND		0.020	0.0045	mg/L			10/27/17 14:38	1
Benzene	ND		0.00050	0.00015	mg/L			10/27/17 14:38	1
Bromobenzene	ND		0.0010	0.00036	mg/L			10/27/17 14:38	1
Bromochloromethane	ND		0.0010	0.00043	mg/L			10/27/17 14:38	1
Bromodichloromethane	ND		0.0010	0.00037	mg/L			10/27/17 14:38	1
Bromoform	ND		0.0010	0.00048	mg/L			10/27/17 14:38	1
Bromomethane	ND	*	0.0020	0.00080	mg/L			10/27/17 14:38	1
Carbon disulfide	ND		0.0020	0.00045	mg/L			10/27/17 14:38	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/L			10/27/17 14:38	1
Chlorobenzene	ND		0.0010	0.00039	mg/L			10/27/17 14:38	1
Chloroethane	ND		0.0010	0.00051	mg/L			10/27/17 14:38	1
Chloroform	ND		0.0020	0.00037	mg/L			10/27/17 14:38	1
Chloromethane	ND		0.0010	0.00032	mg/L			10/27/17 14:38	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/L			10/27/17 14:38	1
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/L			10/27/17 14:38	1
Cyclohexane	ND		0.0010	0.00049	mg/L			10/27/17 14:38	1
Dibromochloromethane	ND		0.0010	0.00049	mg/L			10/27/17 14:38	1
Dibromomethane	ND		0.0010	0.00027	mg/L			10/27/17 14:38	1
Dichlorodifluoromethane	ND		0.0020	0.00067	mg/L			10/27/17 14:38	1
Ethylbenzene	ND		0.00050	0.00018	mg/L			10/27/17 14:38	1

Client Sample Results

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Client Sample ID: EIP-EB-102317

Lab Sample ID: 500-136132-4

Date Collected: 10/23/17 13:50
Matrix: Water
Date Received: 10/24/17 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		0.0025	0.00066	mg/L			10/27/17 14:38	1
Isopropyl ether	ND		0.0010	0.00028	mg/L			10/27/17 14:38	1
Isopropylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 14:38	1
Methyl acetate	ND		0.0050	0.0020	mg/L			10/27/17 14:38	1
Methyl Ethyl Ketone	ND		0.0050	0.0021	mg/L			10/27/17 14:38	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/L			10/27/17 14:38	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/L			10/27/17 14:38	1
Methylcyclohexane	ND		0.0010	0.00032	mg/L			10/27/17 14:38	1
Methylene Chloride	**0.0057**	**cn**	0.0050	0.0016	mg/L			10/27/17 14:38	1
Naphthalene	ND		0.0010	0.00034	mg/L			10/27/17 14:38	1
n-Butylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 14:38	1
N-Propylbenzene	ND		0.0010	0.00041	mg/L			10/27/17 14:38	1
p-Isopropyltoluene	ND		0.0010	0.00036	mg/L			10/27/17 14:38	1
sec-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 14:38	1
Styrene	ND		0.0010	0.00039	mg/L			10/27/17 14:38	1
Tert-amyl methyl ether	ND		0.0010	0.00040	mg/L			10/27/17 14:38	1
tert-Butyl alcohol	ND		0.050	0.012	mg/L			10/27/17 14:38	1
Tert-butyl ethyl ether	ND		0.0010	0.00026	mg/L			10/27/17 14:38	1
tert-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 14:38	1
Tetrachloroethene	ND		0.0010	0.00037	mg/L			10/27/17 14:38	1
Toluene	ND		0.00050	0.00015	mg/L			10/27/17 14:38	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/L			10/27/17 14:38	1
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/L			10/27/17 14:38	1
trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012	mg/L			10/27/17 14:38	1
Trichloroethene	ND		0.00050	0.00016	mg/L			10/27/17 14:38	1
Trichlorofluoromethane	ND		0.0010	0.00043	mg/L			10/27/17 14:38	1
Vinyl acetate	ND		0.0020	0.00091	mg/L			10/27/17 14:38	1
Vinyl chloride	ND		0.00050	0.00020	mg/L			10/27/17 14:38	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			10/27/17 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*10/27/17 14:38*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*10/27/17 14:38*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*10/27/17 14:38*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*10/27/17 14:38*	*1*

Default Detection Limits

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,4-Dioxane	2.0	0.24	ug/L	8260B SIM

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1,2-Tetrachloroethane	0.0010	0.00046	mg/L	8260B
1,1,1-Trichloroethane	0.0010	0.00038	mg/L	8260B
1,1,2,2-Tetrachloroethane	0.0010	0.00040	mg/L	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	0.00046	mg/L	8260B
1,1,2-Trichloroethane	0.0010	0.00035	mg/L	8260B
1,1-Dichloroethane	0.0010	0.00041	mg/L	8260B
1,1-Dichloroethene	0.0010	0.00039	mg/L	8260B
1,1-Dichloropropene	0.0010	0.00030	mg/L	8260B
1,2,3-Trichlorobenzene	0.0010	0.00046	mg/L	8260B
1,2,3-Trichloropropane	0.0010	0.00041	mg/L	8260B
1,2,4-Trichlorobenzene	0.0010	0.00034	mg/L	8260B
1,2,4-Trimethylbenzene	0.0010	0.00036	mg/L	8260B
1,2-Dibromo-3-Chloropropane	0.0050	0.0020	mg/L	8260B
1,2-Dibromoethane	0.0010	0.00039	mg/L	8260B
1,2-Dichlorobenzene	0.0010	0.00033	mg/L	8260B
1,2-Dichloroethane	0.0010	0.00039	mg/L	8260B
1,2-Dichloropropane	0.0010	0.00043	mg/L	8260B
1,3,5-Trimethylbenzene	0.0010	0.00025	mg/L	8260B
1,3-Dichlorobenzene	0.0010	0.00040	mg/L	8260B
1,3-Dichloropropane	0.0010	0.00036	mg/L	8260B
1,4-Dichlorobenzene	0.0010	0.00036	mg/L	8260B
1,4-Dioxane	0.10	0.041	mg/L	8260B
2,2-Dichloropropane	0.0010	0.00044	mg/L	8260B
2-Chloroethyl vinyl ether	0.0020	0.00077	mg/L	8260B
2-Chlorotoluene	0.0010	0.00031	mg/L	8260B
2-Hexanone	0.0050	0.0016	mg/L	8260B
4-Chlorotoluene	0.0010	0.00035	mg/L	8260B
Acetone	0.0050	0.0017	mg/L	8260B
Acrolein	0.10	0.023	mg/L	8260B
Acrylonitrile	0.020	0.0045	mg/L	8260B
Benzene	0.00050	0.00015	mg/L	8260B
Bromobenzene	0.0010	0.00036	mg/L	8260B
Bromochloromethane	0.0010	0.00043	mg/L	8260B
Bromodichloromethane	0.0010	0.00037	mg/L	8260B
Bromoform	0.0010	0.00048	mg/L	8260B
Bromomethane	0.0020	0.00080	mg/L	8260B
Carbon disulfide	0.0020	0.00045	mg/L	8260B
Carbon tetrachloride	0.0010	0.00038	mg/L	8260B
Chlorobenzene	0.0010	0.00039	mg/L	8260B
Chloroethane	0.0010	0.00051	mg/L	8260B
Chloroform	0.0020	0.00037	mg/L	8260B
Chloromethane	0.0010	0.00032	mg/L	8260B
cis-1,2-Dichloroethene	0.0010	0.00041	mg/L	8260B
cis-1,3-Dichloropropene	0.0010	0.00042	mg/L	8260B
Cyclohexane	0.0010	0.00049	mg/L	8260B
Dibromochloromethane	0.0010	0.00049	mg/L	8260B
Dibromomethane	0.0010	0.00027	mg/L	8260B

Default Detection Limits

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	RL	MDL	Units	Method
Dichlorodifluoromethane	0.0020	0.00067	mg/L	8260B
Ethylbenzene	0.00050	0.00018	mg/L	8260B
Iodomethane	0.0025	0.00066	mg/L	8260B
Isopropyl ether	0.0010	0.00028	mg/L	8260B
Isopropylbenzene	0.0010	0.00039	mg/L	8260B
Methyl acetate	0.0050	0.0020	mg/L	8260B
Methyl Ethyl Ketone	0.0050	0.0021	mg/L	8260B
methyl isobutyl ketone	0.0050	0.0022	mg/L	8260B
Methyl tert-butyl ether	0.0010	0.00039	mg/L	8260B
Methylcyclohexane	0.0010	0.00032	mg/L	8260B
Methylene Chloride	0.0050	0.0016	mg/L	8260B
Naphthalene	0.0010	0.00034	mg/L	8260B
n-Butylbenzene	0.0010	0.00039	mg/L	8260B
N-Propylbenzene	0.0010	0.00041	mg/L	8260B
p-Isopropyltoluene	0.0010	0.00036	mg/L	8260B
sec-Butylbenzene	0.0010	0.00040	mg/L	8260B
Styrene	0.0010	0.00039	mg/L	8260B
Tert-amyl methyl ether	0.0010	0.00040	mg/L	8260B
tert-Butyl alcohol	0.050	0.012	mg/L	8260B
Tert-butyl ethyl ether	0.0010	0.00026	mg/L	8260B
tert-Butylbenzene	0.0010	0.00040	mg/L	8260B
Tetrachloroethene	0.0010	0.00037	mg/L	8260B
Toluene	0.00050	0.00015	mg/L	8260B
trans-1,2-Dichloroethene	0.0010	0.00035	mg/L	8260B
trans-1,3-Dichloropropene	0.0010	0.00036	mg/L	8260B
trans-1,4-Dichloro-2-butene	0.0050	0.0012	mg/L	8260B
Trichloroethene	0.00050	0.00016	mg/L	8260B
Trichlorofluoromethane	0.0010	0.00043	mg/L	8260B
Vinyl acetate	0.0020	0.00091	mg/L	8260B
Vinyl chloride	0.00050	0.00020	mg/L	8260B
Xylenes, Total	0.0010	0.00022	mg/L	8260B

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units	Method
Ethane	1.0	0.10	ug/L	RSK-175
Ethylene	1.0	0.11	ug/L	RSK-175
Methane	1.0	0.17	ug/L	RSK-175

General Chemistry

Analyte	RL	MDL	Units	Method
Chloride	0.20	0.17	mg/L	9056A
Nitrate as N	0.20	0.068	mg/L	9056A
Sulfate	0.20	0.095	mg/L	9056A
Total Organic Carbon - Duplicates	1.0	0.47	mg/L	9060A
Sulfide	1.0	0.23	mg/L	SM 4500 S2 F

Surrogate Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-136132-1	OMW1D-GW-102317	85	93	87	90
500-136132-2	EIP-DUP-102317	84	94	87	90
500-136132-3	EIP-TB08-102317	85	95	87	90
500-136132-4	EIP-EB-102317	86	94	86	91
LCS 500-407232/4	Lab Control Sample	78	92	88	95
MB 500-407232/6	Method Blank	78	96	85	91

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DCE
Lab Sample ID	Client Sample ID	(63-125)
500-136132-1	OMW1D-GW-102317	91
500-136132-2	EIP-DUP-102317	98
LCS 240-300683/4	Lab Control Sample	94
MB 240-300683/5	Method Blank	95

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		rifluoroet
Lab Sample ID	Client Sample ID	(60-140)
500-136132-1	OMW1D-GW-102317	87
500-136132-2	EIP-DUP-102317	86
LCS 240-300908/5	Lab Control Sample	90
MB 240-300908/4	Method Blank	91

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-407232/6
Matrix: Water
Analysis Batch: 407232

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046	mg/L			10/27/17 10:02	1
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/L			10/27/17 10:02	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/L			10/27/17 10:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046	mg/L			10/27/17 10:02	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/L			10/27/17 10:02	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/L			10/27/17 10:02	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/L			10/27/17 10:02	1
1,1-Dichloropropene	ND		0.0010	0.00030	mg/L			10/27/17 10:02	1
1,2,3-Trichlorobenzene	ND		0.0010	0.00046	mg/L			10/27/17 10:02	1
1,2,3-Trichloropropane	ND		0.0010	0.00041	mg/L			10/27/17 10:02	1
1,2,4-Trichlorobenzene	ND		0.0010	0.00034	mg/L			10/27/17 10:02	1
1,2,4-Trimethylbenzene	ND		0.0010	0.00036	mg/L			10/27/17 10:02	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/L			10/27/17 10:02	1
1,2-Dibromoethane	ND		0.0010	0.00039	mg/L			10/27/17 10:02	1
1,2-Dichlorobenzene	ND		0.0010	0.00033	mg/L			10/27/17 10:02	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/L			10/27/17 10:02	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/L			10/27/17 10:02	1
1,3,5-Trimethylbenzene	ND		0.0010	0.00025	mg/L			10/27/17 10:02	1
1,3-Dichlorobenzene	ND		0.0010	0.00040	mg/L			10/27/17 10:02	1
1,3-Dichloropropane	ND		0.0010	0.00036	mg/L			10/27/17 10:02	1
1,4-Dichlorobenzene	ND		0.0010	0.00036	mg/L			10/27/17 10:02	1
1,4-Dioxane	ND		0.10	0.041	mg/L			10/27/17 10:02	1
2,2-Dichloropropane	ND		0.0010	0.00044	mg/L			10/27/17 10:02	1
2-Chloroethyl vinyl ether	ND		0.0020	0.00077	mg/L			10/27/17 10:02	1
2-Chlorotoluene	ND		0.0010	0.00031	mg/L			10/27/17 10:02	1
2-Hexanone	ND		0.0050	0.0016	mg/L			10/27/17 10:02	1
4-Chlorotoluene	ND		0.0010	0.00035	mg/L			10/27/17 10:02	1
Acetone	ND		0.0050	0.0017	mg/L			10/27/17 10:02	1
Acrolein	ND		0.10	0.023	mg/L			10/27/17 10:02	1
Acrylonitrile	ND		0.020	0.0045	mg/L			10/27/17 10:02	1
Benzene	ND		0.00050	0.00015	mg/L			10/27/17 10:02	1
Bromobenzene	ND		0.0010	0.00036	mg/L			10/27/17 10:02	1
Bromochloromethane	ND		0.0010	0.00043	mg/L			10/27/17 10:02	1
Bromodichloromethane	ND		0.0010	0.00037	mg/L			10/27/17 10:02	1
Bromoform	ND		0.0010	0.00048	mg/L			10/27/17 10:02	1
Bromomethane	ND		0.0020	0.00080	mg/L			10/27/17 10:02	1
Carbon disulfide	ND		0.0020	0.00045	mg/L			10/27/17 10:02	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/L			10/27/17 10:02	1
Chlorobenzene	ND		0.0010	0.00039	mg/L			10/27/17 10:02	1
Chloroethane	ND		0.0010	0.00051	mg/L			10/27/17 10:02	1
Chloroform	ND		0.0020	0.00037	mg/L			10/27/17 10:02	1
Chloromethane	ND		0.0010	0.00032	mg/L			10/27/17 10:02	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/L			10/27/17 10:02	1
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/L			10/27/17 10:02	1
Cyclohexane	ND		0.0010	0.00049	mg/L			10/27/17 10:02	1
Dibromochloromethane	ND		0.0010	0.00049	mg/L			10/27/17 10:02	1
Dibromomethane	ND		0.0010	0.00027	mg/L			10/27/17 10:02	1
Dichlorodifluoromethane	ND		0.0020	0.00067	mg/L			10/27/17 10:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-407232/6
Matrix: Water
Analysis Batch: 407232

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00050	0.00018	mg/L			10/27/17 10:02	1
Iodomethane	ND		0.0025	0.00066	mg/L			10/27/17 10:02	1
Isopropyl ether	ND		0.0010	0.00028	mg/L			10/27/17 10:02	1
Isopropylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 10:02	1
Methyl acetate	ND		0.0050	0.0020	mg/L			10/27/17 10:02	1
Methyl Ethyl Ketone	ND		0.0050	0.0021	mg/L			10/27/17 10:02	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/L			10/27/17 10:02	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/L			10/27/17 10:02	1
Methylcyclohexane	ND		0.0010	0.00032	mg/L			10/27/17 10:02	1
Methylene Chloride	ND		0.0050	0.0016	mg/L			10/27/17 10:02	1
Naphthalene	ND		0.0010	0.00034	mg/L			10/27/17 10:02	1
n-Butylbenzene	ND		0.0010	0.00039	mg/L			10/27/17 10:02	1
N-Propylbenzene	ND		0.0010	0.00041	mg/L			10/27/17 10:02	1
p-Isopropyltoluene	ND		0.0010	0.00036	mg/L			10/27/17 10:02	1
sec-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 10:02	1
Styrene	ND		0.0010	0.00039	mg/L			10/27/17 10:02	1
Tert-amyl methyl ether	ND		0.0010	0.00040	mg/L			10/27/17 10:02	1
tert-Butyl alcohol	ND		0.050	0.012	mg/L			10/27/17 10:02	1
Tert-butyl ethyl ether	ND		0.0010	0.00026	mg/L			10/27/17 10:02	1
tert-Butylbenzene	ND		0.0010	0.00040	mg/L			10/27/17 10:02	1
Tetrachloroethene	ND		0.0010	0.00037	mg/L			10/27/17 10:02	1
Toluene	ND		0.00050	0.00015	mg/L			10/27/17 10:02	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/L			10/27/17 10:02	1
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/L			10/27/17 10:02	1
trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012	mg/L			10/27/17 10:02	1
Trichloroethene	ND		0.00050	0.00016	mg/L			10/27/17 10:02	1
Trichlorofluoromethane	ND		0.0010	0.00043	mg/L			10/27/17 10:02	1
Vinyl acetate	ND		0.0020	0.00091	mg/L			10/27/17 10:02	1
Vinyl chloride	ND		0.00050	0.00020	mg/L			10/27/17 10:02	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			10/27/17 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*75 - 126*		*10/27/17 10:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*10/27/17 10:02*	*1*
Dibromofluoromethane	*85*		*75 - 120*		*10/27/17 10:02*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*10/27/17 10:02*	*1*

Lab Sample ID: LCS 500-407232/4
Matrix: Water
Analysis Batch: 407232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0421		mg/L		84	70 - 125
1,1,1-Trichloroethane	0.0500	0.0488		mg/L		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0386		mg/L		77	67 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0484		mg/L		97	70 - 123
1,1,2-Trichloroethane	0.0500	0.0391		mg/L		78	70 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407232/4
Matrix: Water
Analysis Batch: 407232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.0500	0.0450		mg/L		90	70 - 125
1,1-Dichloroethene	0.0500	0.0460		mg/L		92	67 - 122
1,1-Dichloropropene	0.0500	0.0487		mg/L		97	70 - 121
1,2,3-Trichlorobenzene	0.0500	0.0340		mg/L		68	55 - 140
1,2,3-Trichloropropane	0.0500	0.0358		mg/L		72	50 - 133
1,2,4-Trichlorobenzene	0.0500	0.0373		mg/L		75	66 - 127
1,2,4-Trimethylbenzene	0.0500	0.0473		mg/L		95	70 - 123
1,2-Dibromo-3-Chloropropane	0.0500	0.0281		mg/L		56	56 - 123
1,2-Dibromoethane	0.0500	0.0373		mg/L		75	70 - 125
1,2-Dichlorobenzene	0.0500	0.0424		mg/L		85	70 - 125
1,2-Dichloroethane	0.0500	0.0394		mg/L		79	68 - 127
1,2-Dichloropropane	0.0500	0.0466		mg/L		93	67 - 130
1,3,5-Trimethylbenzene	0.0500	0.0489		mg/L		98	70 - 123
1,3-Dichlorobenzene	0.0500	0.0449		mg/L		90	70 - 125
1,3-Dichloropropane	0.0500	0.0401		mg/L		80	62 - 136
1,4-Dichlorobenzene	0.0500	0.0451		mg/L		90	70 - 120
1,4-Dioxane	1.00	0.954		mg/L		95	70 - 129
2,2-Dichloropropane	0.0500	0.0561		mg/L		112	58 - 129
2-Chloroethyl vinyl ether	0.0500	0.0371		mg/L		74	52 - 136
2-Chlorotoluene	0.0500	0.0522		mg/L		104	70 - 125
2-Hexanone	0.0500	0.0345		mg/L		69	56 - 135
4-Chlorotoluene	0.0500	0.0475		mg/L		95	68 - 124
Acetone	0.0500	0.0414		mg/L		83	40 - 143
Acrolein	2.00	1.32		mg/L		66	40 - 150
Acrylonitrile	0.500	0.402		mg/L		80	67 - 140
Benzene	0.0500	0.0496		mg/L		99	70 - 120
Bromobenzene	0.0500	0.0448		mg/L		90	70 - 122
Bromochloromethane	0.0500	0.0435		mg/L		87	65 - 122
Bromodichloromethane	0.0500	0.0427		mg/L		85	69 - 120
Bromoform	0.0500	0.0352		mg/L		70	56 - 132
Bromomethane	0.0500	0.0738	*	mg/L		148	40 - 130
Carbon disulfide	0.0500	0.0464		mg/L		93	66 - 120
Carbon tetrachloride	0.0500	0.0488		mg/L		98	65 - 122
Chlorobenzene	0.0500	0.0468		mg/L		94	70 - 120
Chloroethane	0.0500	0.0594		mg/L		119	45 - 127
Chloroform	0.0500	0.0433		mg/L		87	70 - 120
Chloromethane	0.0500	0.0445		mg/L		89	54 - 147
cis-1,2-Dichloroethene	0.0500	0.0460		mg/L		92	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0393		mg/L		79	64 - 127
Cyclohexane	0.0500	0.0519		mg/L		104	69 - 142
Dibromochloromethane	0.0500	0.0375		mg/L		75	68 - 125
Dibromomethane	0.0500	0.0407		mg/L		81	70 - 120
Dichlorodifluoromethane	0.0500	0.0303		mg/L		61	40 - 150
Ethylbenzene	0.0500	0.0483		mg/L		97	70 - 120
Iodomethane	0.0500	0.0474		mg/L		95	61 - 136
Isopropylbenzene	0.0500	0.0495		mg/L		99	70 - 126
Methyl acetate	0.100	0.0759		mg/L		76	56 - 150
Methyl Ethyl Ketone	0.0500	0.0378		mg/L		76	53 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407232/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
methyl isobutyl ketone	0.0500	0.0361		mg/L		72	56 - 133
Methyl tert-butyl ether	0.0500	0.0373		mg/L		75	70 - 120
Methylcyclohexane	0.0500	0.0495		mg/L		99	70 - 120
Methylene Chloride	0.0500	0.0483		mg/L		97	69 - 125
Naphthalene	0.0500	0.0307		mg/L		61	59 - 130
n-Butylbenzene	0.0500	0.0475		mg/L		95	68 - 125
N-Propylbenzene	0.0500	0.0494		mg/L		99	69 - 127
p-Isopropyltoluene	0.0500	0.0485		mg/L		97	70 - 125
sec-Butylbenzene	0.0500	0.0486		mg/L		97	70 - 123
Styrene	0.0500	0.0469		mg/L		94	70 - 120
tert-Butyl alcohol	0.500	0.473		mg/L		95	70 - 125
tert-Butylbenzene	0.0500	0.0487		mg/L		97	70 - 121
Tetrachloroethene	0.0500	0.0499		mg/L		100	70 - 128
Toluene	0.0500	0.0496		mg/L		99	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0469		mg/L		94	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0370		mg/L		74	62 - 128
trans-1,4-Dichloro-2-butene	0.0500	0.0317		mg/L		63	60 - 130
Trichloroethene	0.0500	0.0485		mg/L		97	70 - 125
Trichlorofluoromethane	0.0500	0.0407		mg/L		81	70 - 126
Vinyl acetate	0.0500	0.0377		mg/L		75	43 - 133
Vinyl chloride	0.0500	0.0413		mg/L		83	64 - 126
Xylenes, Total	0.100	0.0973		mg/L		97	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*75 - 126*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane	*88*		*75 - 120*
Toluene-d8 (Surr)	*95*		*75 - 120*

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-300683/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.24	ug/L			10/26/17 10:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 125*		*10/26/17 10:09*	*1*

Lab Sample ID: LCS 240-300683/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 300683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	10.6		ug/L		106	59 - 131

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-300683/4
Matrix: Water
Analysis Batch: 300683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 125*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-300908/4
Matrix: Water
Analysis Batch: 300908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		1.0	0.17	ug/L			10/27/17 11:42	1
Ethane	ND		1.0	0.10	ug/L			10/27/17 11:42	1
Ethylene	ND		1.0	0.11	ug/L			10/27/17 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,1,1-Trifluoroethane	*91*		*60 - 140*		*10/27/17 11:42*	*1*

Lab Sample ID: LCS 240-300908/5
Matrix: Water
Analysis Batch: 300908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	285	292		ug/L		103	80 - 120
Ethane	536	583		ug/L		109	80 - 120
Ethylene	501	542		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,1,1-Trifluoroethane	*90*		*60 - 140*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 500-406966/3
Matrix: Water
Analysis Batch: 406966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20	0.17	mg/L			10/24/17 22:18	1
Nitrate as N	ND		0.20	0.068	mg/L			10/24/17 22:18	1
Sulfate	ND		0.20	0.095	mg/L			10/24/17 22:18	1

Lab Sample ID: LCS 500-406966/56
Matrix: Water
Analysis Batch: 406966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	2.72		mg/L		91	80 - 120
Nitrate as N	2.00	1.85		mg/L		92	80 - 120
Sulfate	5.00	5.42		mg/L		108	80 - 120

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-136132-1 MS — **Client Sample ID: OMW1D-GW-102317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	ND		1.00	0.952		mg/L		95	80 - 120		

Lab Sample ID: 500-136132-1 MS — **Client Sample ID: OMW1D-GW-102317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	61		10.0	67.1	4	mg/L		61	80 - 120		
Sulfate	98	F1	25.0	118	F1	mg/L		79	80 - 120		

Lab Sample ID: 500-136132-1 MSD — **Client Sample ID: OMW1D-GW-102317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		1.00	0.980		mg/L		98	80 - 120	3	15

Lab Sample ID: 500-136132-1 MSD — **Client Sample ID: OMW1D-GW-102317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 406966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	61		10.0	70.9	4	mg/L		99	80 - 120	5	15
Sulfate	98	F1	25.0	120		mg/L		85	80 - 120	1	15

Lab Sample ID: MB 500-408534/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.20	0.095	mg/L			11/04/17 15:36	1

Lab Sample ID: LCS 500-408534/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408534

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			5.00	5.11		mg/L		102	80 - 120		

Lab Sample ID: 500-136132-2 MS — **Client Sample ID: EIP-DUP-102317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	90		50.0	147		mg/L		114	80 - 120		

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-136132-2 MSD — **Client Sample ID: EIP-DUP-102317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	90		50.0	146		mg/L		113	80 - 120	0	15

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 500-407343/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0	0.47	mg/L			10/26/17 22:47	1

Lab Sample ID: LCS 500-407343/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	10.0	9.37		mg/L		94	80 - 120
TOC Result 1	10.0	9.37		mg/L		94	80 - 120
TOC Result 2	10.0	9.36		mg/L		94	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-407023/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.23	mg/L			10/26/17 08:14	1

Lab Sample ID: LCS 500-407023/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 407023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.28	3.29		mg/L		100	85 - 115

QC Association Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

GC/MS VOA

Analysis Batch: 300683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136132-1	OMW1D-GW-102317	Total/NA	Water	8260B SIM	
500-136132-2	EIP-DUP-102317	Total/NA	Water	8260B SIM	
MB 240-300683/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-300683/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Analysis Batch: 407232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136132-1	OMW1D-GW-102317	Total/NA	Water	8260B	
500-136132-2	EIP-DUP-102317	Total/NA	Water	8260B	
500-136132-3	EIP-TB08-102317	Total/NA	Water	8260B	
500-136132-4	EIP-EB-102317	Total/NA	Water	8260B	
MB 500-407232/6	Method Blank	Total/NA	Water	8260B	
LCS 500-407232/4	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 300908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136132-1	OMW1D-GW-102317	Total/NA	Water	RSK-175	
500-136132-2	EIP-DUP-102317	Total/NA	Water	RSK-175	
MB 240-300908/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-300908/5	Lab Control Sample	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 406966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136132-1	OMW1D-GW-102317	Total/NA	Water	9056A	
500-136132-1	OMW1D-GW-102317	Total/NA	Water	9056A	
500-136132-2	EIP-DUP-102317	Total/NA	Water	9056A	
500-136132-2	EIP-DUP-102317	Total/NA	Water	9056A	
MB 500-406966/3	Method Blank	Total/NA	Water	9056A	
LCS 500-406966/56	Lab Control Sample	Total/NA	Water	9056A	
500-136132-1 MS	OMW1D-GW-102317	Total/NA	Water	9056A	
500-136132-1 MS	OMW1D-GW-102317	Total/NA	Water	9056A	
500-136132-1 MSD	OMW1D-GW-102317	Total/NA	Water	9056A	
500-136132-1 MSD	OMW1D-GW-102317	Total/NA	Water	9056A	

Analysis Batch: 407023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136132-1	OMW1D-GW-102317	Total/NA	Water	SM 4500 S2 F	
500-136132-2	EIP-DUP-102317	Total/NA	Water	SM 4500 S2 F	
MB 500-407023/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-407023/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 407343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136132-1	OMW1D-GW-102317	Total/NA	Water	9060A	
500-136132-2	EIP-DUP-102317	Total/NA	Water	9060A	
MB 500-407343/4	Method Blank	Total/NA	Water	9060A	

General Chemistry (Continued)

Analysis Batch: 407343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-407343/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 408534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136132-2	EIP-DUP-102317	Total/NA	Water	9056A	
MB 500-408534/3	Method Blank	Total/NA	Water	9056A	
LCS 500-408534/4	Lab Control Sample	Total/NA	Water	9056A	
500-136132-2 MS	EIP-DUP-102317	Total/NA	Water	9056A	
500-136132-2 MSD	EIP-DUP-102317	Total/NA	Water	9056A	

Lab Chronicle

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Client Sample ID: OMW1D-GW-102317 — Lab Sample ID: 500-136132-1

Date Collected: 10/23/17 12:30
Matrix: Water
Date Received: 10/24/17 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	407232	10/27/17 13:23	JJH	TAL CHI
Total/NA	Analysis	8260B SIM		1	300683	10/26/17 13:27	SAM	TAL CAN
Total/NA	Analysis	RSK-175		1	300908	10/27/17 14:16	BPM	TAL CAN
Total/NA	Analysis	9056A		1	406966	10/24/17 22:43	EAT	TAL CHI
Total/NA	Analysis	9056A		10	406966	10/24/17 22:55	EAT	TAL CHI
Total/NA	Analysis	9060A		1	407343	10/27/17 05:01	HMW	TAL CHI
Total/NA	Analysis	SM 4500 S2 F		1	407023		CLB	TAL CHI
					(Start)	10/26/17 08:53		
					(End)	10/26/17 08:56		

Client Sample ID: EIP-DUP-102317 — Lab Sample ID: 500-136132-2

Date Collected: 10/23/17 12:30
Matrix: Water
Date Received: 10/24/17 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	407232	10/27/17 13:48	JJH	TAL CHI
Total/NA	Analysis	8260B SIM		1	300683	10/26/17 13:51	SAM	TAL CAN
Total/NA	Analysis	RSK-175		1	300908	10/27/17 14:33	BPM	TAL CAN
Total/NA	Analysis	9056A		1	406966	10/24/17 23:57	EAT	TAL CHI
Total/NA	Analysis	9056A		10	406966	10/25/17 00:09	EAT	TAL CHI
Total/NA	Analysis	9056A		20	408534	11/04/17 16:51	EAT	TAL CHI
Total/NA	Analysis	9060A		1	407343	10/27/17 05:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 S2 F		1	407023		CLB	TAL CHI
					(Start)	10/26/17 08:56		
					(End)	10/26/17 08:59		

Client Sample ID: EIP-TB08-102317 — Lab Sample ID: 500-136132-3

Date Collected: 10/23/17 00:00
Matrix: Water
Date Received: 10/24/17 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	407232	10/27/17 14:13	JJH	TAL CHI

Client Sample ID: EIP-EB-102317 — Lab Sample ID: 500-136132-4

Date Collected: 10/23/17 13:50
Matrix: Water
Date Received: 10/24/17 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	407232	10/27/17 14:38	JJH	TAL CHI

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,4-Dioxane
8260B		Water	Cyclohexane
8260B		Water	Methyl acetate
8260B		Water	Methylcyclohexane
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol
8260B		Water	Tert-butyl ethyl ether

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
9056A	Anions, Ion Chromatography	SW846	TAL CHI
9060A	Organic Carbon, Total (TOC)	SW846	TAL CHI
SM 4500 S2 F	Sulfide, Total	SM	TAL CHI

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ramboll Environ US Corporation
Project/Site: Ellsworth Industrial Park

TestAmerica Job ID: 500-136132-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-136132-1	OMW1D-GW-102317	Water	10/23/17 12:30	10/24/17 11:00
500-136132-2	EIP-DUP-102317	Water	10/23/17 12:30	10/24/17 11:00
500-136132-3	EIP-TB08-102317	Water	10/23/17 00:00	10/24/17 11:00
500-136132-4	EIP-EB-102317	Water	10/23/17 13:50	10/24/17 11:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: CMS18 Analysis Batch Number: 391473

Lab Sample ID: STD03AP 500-391473/14 I Client Sample ID:

Date Analyzed: 06/30/17 18:41 Lab File ID: 18J0630C.d GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.92	Baseline	alikpalae	06/30/17 19:51

Lab Sample ID: STD05AP 500-391473/16 I Client Sample ID:

Date Analyzed: 06/30/17 19:30 Lab File ID: 18J0630E.d GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.92	Peak Tail	alikpalae	06/30/17 19:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Instrument ID: A3UX2 Analysis Batch Number: 297993

Lab Sample ID: ICIS 240-297993/6 Client Sample ID:

Date Analyzed: 10/06/17 16:31 Lab File ID: X21220.D GC Column: ZB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	6.07	Poor chromatography	macenczaks	10/09/17 08:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Instrument ID: A3UX2 Analysis Batch Number: 300683

Lab Sample ID: LCS 240-300683/4 Client Sample ID:

Date Analyzed: 10/26/17 09:44 Lab File ID: X21334.D GC Column: ZB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	6.08	Poor chromatography	macenczaks	10/26/17 10:23

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Instrument ID: ZPID Analysis Batch Number: 299071

Lab Sample ID: STD1 240-299071/3 IC Client Sample ID:

Date Analyzed: 10/15/17 12:40 Lab File ID: RSK1015003.D GC Column: HP-PLOT/Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propane	4.56	Incomplete Integration	matthewsb	10/16/17 07:07

Lab Sample ID: STD2 240-299071/4 IC Client Sample ID:

Date Analyzed: 10/15/17 12:57 Lab File ID: RSK1015004.D GC Column: HP-PLOT/Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propane	4.56	Incomplete Integration	matthewsb	10/16/17 07:08

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
2ETTOL WK STD_00031	07/10/17	06/26/17	METHANOL, Lot 127999	2 mL	2ETTOL PT STD_00008	200 uL	2-Ethyltoluene	100 ug/mL
.2ETTOL PT STD_00008	08/03/17	05/03/17	METHANOL, Lot NA	1 mL	2ETHYLTOL STD_00002	1 mL	2-Ethyltoluene	1000 ug/mL
..2ETHYLTOL STD_00002	07/01/21	ABSOLUTE STD, Lot 070116			(Purchased Reagent)		2-Ethyltoluene	1000 ug/mL
8260 23DCP WK_00097	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260 23DCP PT_00027	200 uL	2,3-Dichloro-1-propene	100 ug/mL
.8260 23DCP PT_00027	09/19/17	06/19/17	METHANOL, Lot NA	1 mL	2,3DICL1PRPEN_00004	1 mL	2,3-Dichloro-1-propene	1000 ug/mL
..2,3DICL1PRPEN_00004	03/15/19	ABSOLUTE STD, Lot 031516			(Purchased Reagent)		2,3-Dichloro-1-propene	1000 ug/mL
8260 ACR SPK_00129	07/12/17	07/05/17	Water, Lot NA	1 mL	8260 ACRPTSPK_00032	100 uL	Acrolein	2000 ug/mL
.8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
..ACROLN SK STK_00026	09/30/17	Restek, Lot A0125594			(Purchased Reagent)		Acrolein	20000 ug/mL
8260 GAS SPK_00129	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260 GASSPKPT_00033	40 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.8260 GASSPKPT_00033	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	GASES SPK STK_00011	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..GASES SPK STK_00011	11/30/18	Restek, Lot A0115484			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260 KET SPK_00100	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260KETSPKPT_00028	8 uL	2-Hexanone	50 ug/mL
							Acetone	50 ug/mL
							Methyl Ethyl Ketone	50 ug/mL
							methyl isobutyl ketone	50 ug/mL
.8260KETSPKPT_00028	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	KET SPK STK_00010	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..KET SPK STK_00010	03/31/19	Restek, Lot A0118013			(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260 LOWIS1_00108	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	1,4DIOX-d8 IS_00012	1000 uL	1,4-Dioxane-d8	1000 ug/mL
					8260A IS PT_00026	40 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
					T-BUOH-d9 PT_00026	100 uL	TBA-d9 (IS)	1000 ug/mL
.1,4DIOX-d8 IS_00012	06/30/19	Restek, Lot A0120108			(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
.8260A IS PT_00026	09/30/17	06/26/17	n/a, Lot NA	1 mL	8260A IS SK_00007	1 mL	1,4-Dichlorobenzene-d4	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
..8260A IS SK_00007	02/28/21		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
.T-BUOH-d9 PT_00026	09/26/17	06/26/17	n/a, Lot NA	1 mL	T-BUOH-d9 IS_00006	1 mL	TBA-d9 (IS)	20000 ug/mL
..T-BUOH-d9 IS_00006	03/31/19		Restek, Lot A0117777		(Purchased Reagent)		TBA-d9 (IS)	20000 ug/mL
8260 LOWSS1_00133	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260/624 SSPT_00002	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260/624 SSPT_00002	09/26/17	06/26/17	na, Lot NA	5 mL	8260 SS PT_00040	5 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00040	10/31/20		Restek, Lot A0114901		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 MEGA SPK_00104	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260MEGASPKPT_00029	40 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.8260MEGASPKPT_00029	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	MEGA SPK STK_00011	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..MEGA SPK STK_00011	07/31/18		Restek, Lot A0120604		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624ACRWK_00334	07/12/17	07/05/17	Water, Lot NA	2 mL	8260 ACRPTSPK_00032	400 uL	Acrolein	4000 ug/mL
.8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
..ACROLN SK STK_00026	09/30/17		Restek, Lot A0125594		(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624ACRWK_00358	10/27/17	10/20/17	Water, Lot NA	2 mL	8260/624ACRPT_00136	400 uL	Acrolein	4000 ug/mL
.8260/624ACRPT_00136	11/30/17	10/20/17	Water, Lot NA	1 mL	8260 ACROLEIN_00038	1 mL	Acrolein	20000 ug/mL
..8260 ACROLEIN_00038	11/30/17		Restek, Lot A0127476		(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624GASWK_00457	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASPT_00084	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00084	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_00475	10/31/17	10/24/17	METHANOL, Lot 177891	2 mL	8260/624GASPT_00088	80 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00088	01/04/18	10/04/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624KETWK_00262	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260/624KETPT_00045	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00045	08/06/17	05/06/17	na, Lot na	1 mL	8260/624 KET_00011	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00011	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624KETWK_00282	10/27/17	10/13/17	METHANOL, Lot 177891	2 mL	8260/624KETPT_00051	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00051	01/04/18	10/04/17	na, Lot na	1 mL	8260/624 KET_00013	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00013	01/31/20		Restek, Lot A0123890		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							methyl isobutyl ketone	12500 ug/mL
8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							p-Isopropyltoluene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butyl alcohol	1000 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	Xylenes, Total	5000 ug/mL
..8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_00416	11/08/17	10/25/17	METHANOL, Lot 177891	2 mL	8260/624MEGPT_00078	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Iodomethane	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							p-Isopropyltoluene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butyl alcohol	1000 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.8260/624MEGPT_00078	01/23/18	10/23/17	na, Lot na	1 mL	8260/624 Mega_00017	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..8260/624 Mega_00017	12/31/18		Restek, Lot A01237		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624STD2_00162	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260 MENAP PT_00012	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					8260PENTCLEPT_00011	80 uL	Pentachloroethane	100 ug/mL
.8260 MENAP PT_00012	08/07/17	05/07/17	METHANOL, Lot NA	1 mL	8260 MENAPH_00001	1 mL	1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..8260 MENAPH_00001	12/31/17		Restek, Lot A0116084		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
.8260PENTCLEPT_00011	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	8260 PENTACLE_00001	1 mL	Pentachloroethane	2500 ug/mL
..8260 PENTACLE_00001	12/31/17		Restek, Lot A0116076		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
8260ADDS 2016_00046	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260LIST2/6PT_00011	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					8260LIST2/7PT_00011	80 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL
.8260LIST2/6PT_00011	08/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00002	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260 LIST2/#6_00002	06/30/18	Restek, Lot A01123685			(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.8260LIST2/7PT_00011	08/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00002	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..8260 LIST2/#7_00002	01/31/18	Restek, Lot A0120639			(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
8260CYCHXWK_00167	07/10/17	06/26/17	Water, Lot NA	2 mL	8260 CYCHX PT_00032	800 uL	Cyclohexanone	10000 ug/mL
.8260 CYCHX PT_00032	03/31/19	Restek, Lot A0118487			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
8260LOW IS/SS_00146	07/14/17	06/30/17	METHANOL, Lot 147462	20 mL	8260 IS/SS SK_00034	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00034	01/31/22	Restek, Lot A0124018			(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260LOW IS/SS_00146	07/14/17	06/30/17	METHANOL, Lot 147462	20 mL	8260 IS/SS SK_00034	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00034	01/31/22		Restek, Lot A0124018		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00155	11/06/17	10/23/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00155	11/06/17	10/23/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260POLR ADDS_00121	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260POLRADDPT_00026	80 uL	Acetonitrile	1000 ug/mL
							Ethanol	4000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
.8260POLRADDPT_00026	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	8260POLARADDS_00006	1 mL	Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
..8260POLARADDS_00006	10/31/17		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260POLR ADDS_00130	11/01/17	10/18/17	METHANOL, Lot 177891	2 mL	8260POLRADDPT_00029	80 uL	Isopropyl ether	100 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260POLRADDPT_00029	01/01/18	10/04/17	METHANOL, Lot NA	1 mL	8260POLARADDS_00007	1 mL	Isopropyl ether	2500 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
..8260POLARADDS_00007	12/31/18		Restek, Lot A0123796		(Purchased Reagent)		Isopropyl ether	2500 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260VA/2CEVE_00276	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00051	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00044	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT_00051	09/30/17	05/30/17	METHANOL, Lot NA	1 mL	8260/624 VA_00023	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA_00023	09/30/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260/624CEVPT_00044	09/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
8260VA/2CEVE_00297	11/01/17	10/25/17	METHANOL, Lot 177891	2 mL	8260/624 VAPT_00056	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00048	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT_00056	12/31/17	10/04/17	METHANOL, Lot NA	1 mL	8260/624 VA_00024	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA_00024	12/31/17		Restek, Lot A0128793		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260/624CEVPT_00048	01/04/18	10/04/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
BFB STD WK_00154							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00040	25 uL	BFB	25 ug/mL
.BFB WK PT_00040	08/17/17	05/17/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL
..BFB STD SK_00008	11/30/17		ultra scientific, Lot CH-3248A		(Purchased Reagent)		BFB	2000 ug/mL
BFB STD WK_00166							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00043	25 uL	BFB	25 ug/mL
.BFB WK PT_00043	11/30/17	10/08/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL
..BFB STD SK_00008	11/30/17		ultra scientific, Lot CH-3248A		(Purchased Reagent)		BFB	2000 ug/mL
LEVEL1 8260_00001	12/31/17	01/15/13	1, Lot DH247	1 mL	8260/624STD_00001	5 uL	Vinyl chloride	0.5 ug/mL
							Benzene	0.5 ug/mL
							Ethylbenzene	0.5 ug/mL
							m-Xylene & p-Xylene	0.5 ug/mL
							o-Xylene	0.5 ug/mL
							Toluene	0.5 ug/mL
							Trichloroethene	0.5 ug/mL
.8260/624STD_00001	12/31/17	01/15/13	METHANOL, Lot DH247	2 mL	8260/624L1GAS_00001	100 uL	Vinyl chloride	100 ug/mL
					8260/624L1MEG_00001	100 uL	Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	100 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624L1GAS_00001	12/31/17		Restek, Lot A092242		(Purchased Reagent)		Vinyl chloride	2000 ug/mL
..8260/624L1MEG_00001	12/31/17		Restek, Lot A092262		(Purchased Reagent)		Benzene	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Toluene	2000 ug/mL
							Trichloroethene	2000 ug/mL
LO8260/624STD_00259	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASWK_00457	100 uL	Bromomethane	5 ug/mL
							Butadiene	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					8260/624KETWK_00263	100 uL	2-Hexanone	5 ug/mL
							Acetone	5 ug/mL
							Methyl Ethyl Ketone	5 ug/mL
							methyl isobutyl ketone	5 ug/mL
					8260/624MEGWK_00391	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromochloromethane	5 ug/mL
							Bromodichloromethane	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromochloromethane	5 ug/mL
							Dibromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	25 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							p-Isopropyltoluene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butyl alcohol	50 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
					8260VA/2CEVE_00276	100 uL	Vinyl acetate	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloroethyl vinyl ether	5 ug/mL
.8260/624GASWK_00457	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASPT_00084	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
..8260/624GASPT_00084	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
...8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260/624KETWK_00263	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624KETPT_00046	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
..8260/624KETPT_00046	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 KET_00012	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
...8260/624 KET_00012	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	100 ug/mL
							p-Isopropyltoluene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butyl alcohol	1000 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
...8260/624 Mega_00016	03/31/18	Restek, Lot A0108177			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00276	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00051	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00044	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
..8260/624 VAPT_00051	09/30/17	05/30/17	METHANOL, Lot NA	1 mL	8260/624 VA_00023	1 mL	Vinyl acetate	5000 ug/mL
...8260/624 VA_00023	09/30/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..8260/624CEVPT_00044	09/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
...8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LO8260ADDS_00030	07/10/17	06/26/17	METHANOL, Lot 147462	1 mL	8260ADDS 2016_00046	50 uL	1,2,3-Trimethylbenzene	5 ug/mL
							1,3,5-Trichlorobenzene	5 ug/mL
							1-Chlorohexane	5 ug/mL
							2-Chloro-1,3-butadiene	5 ug/mL
							2-Nitropropane	10 ug/mL
							Benzyl chloride	5 ug/mL
							Isooctane	5 ug/mL
							Isopropyl alcohol	50 ug/mL
							Methacrylonitrile	50 ug/mL
							n-Butanol	125 ug/mL
							Ethyl acetate	10 ug/mL
							Ethyl acrylate	5 ug/mL
							Methyl methacrylate	10 ug/mL
							n-Butyl acetate	5 ug/mL
.8260ADDS 2016_00046	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260LIST2/6PT_00011	80 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					8260LIST2/7PT_00011	80 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..8260LIST2/6PT_00011	08/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260 LIST2/#6_00002	1 mL	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
...8260 LIST2/#6_00002	06/30/18		Restek, Lot A01123685		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..8260LIST2/7PT_00011	08/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260 LIST2/#7_00002	1 mL	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
...8260 LIST2/#7_00002	01/31/18		Restek, Lot A0120639		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
LO8260POLRADD_00089	07/10/17	06/26/17	METHANOL, Lot 147462	1 mL	8260POLR ADDS_00121	50 uL	Acetonitrile	50 ug/mL
							Ethanol	200 ug/mL
							Isopropyl ether	5 ug/mL
							Propionitrile	50 ug/mL
							Tert-amyl methyl ether	5 ug/mL
							Tert-butyl ethyl ether	5 ug/mL
.8260POLR ADDS_00121	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260POLRADDPT_00026	80 uL	Acetonitrile	1000 ug/mL
							Ethanol	4000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
..8260POLRADDPT_00026	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	8260POLARADDS_00006	1 mL	Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
...8260POLARADDS_00006	10/31/17		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
LOW2,3-DICP_00060	07/10/17	06/26/17	METHANOL, Lot 147462	1 mL	8260 23DCP WK_00097	50 uL	2,3-Dichloro-1-propene	5 ug/mL
.8260 23DCP WK_00097	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260 23DCP PT_00027	200 uL	2,3-Dichloro-1-propene	100 ug/mL
..8260 23DCP PT_00027	09/19/17	06/19/17	METHANOL, Lot NA	1 mL	2,3DICL1PRPEN_00004	1 mL	2,3-Dichloro-1-propene	1000 ug/mL
...2,3DICL1PRPEN_00004	03/15/19	ABSOLUTE STD, Lot 031516			(Purchased Reagent)		2,3-Dichloro-1-propene	1000 ug/mL
LOW2ETTOL STD_00015	07/10/17	06/26/17	METHANOL, Lot 147462	1 mL	2ETTOL WK STD_00031	50 uL	2-Ethyltoluene	5 ug/mL
.2ETTOL WK STD_00031	07/10/17	06/26/17	METHANOL, Lot 127999	2 mL	2ETTOL PT STD_00008	200 uL	2-Ethyltoluene	100 ug/mL
..2ETTOL PT STD_00008	08/03/17	05/03/17	METHANOL, Lot NA	1 mL	2ETHYLTOL STD_00002	1 mL	2-Ethyltoluene	1000 ug/mL
...2ETHYLTOL STD_00002	07/01/21	ABSOLUTE STD, Lot 070116			(Purchased Reagent)		2-Ethyltoluene	1000 ug/mL
LOW8260ACR_00173	07/12/17	07/05/17	Water, Lot NA	1 mL	8260/624ACRWK_00334	50 uL	Acrolein	200 ug/mL
.8260/624ACRWK_00334	07/12/17	07/05/17	Water, Lot NA	2 mL	8260 ACRPTSPK_00032	400 uL	Acrolein	4000 ug/mL
..8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
...ACROLN SK STK_00026	09/30/17	Restek, Lot A0125594			(Purchased Reagent)		Acrolein	20000 ug/mL
LOW8260STD2_00147	07/10/17	06/26/17	METHANOL, Lot 147462	1 mL	8260/624STD2_00162	50 uL	1-Methylnaphthalene	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							Pentachloroethane	5 ug/mL
.8260/624STD2_00162	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260 MENAP PT_00012	80 uL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					8260PENTCLEPT_00011	80 uL	Pentachloroethane	100 ug/mL
..8260 MENAP PT_00012	08/07/17	05/07/17	METHANOL, Lot NA	1 mL	8260 MENAPH_00001	1 mL	1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
...8260 MENAPH_00001	12/31/17	Restek, Lot A0116084			(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..8260PENTCLEPT_00011	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	8260 PENTACLE_00001	1 mL	Pentachloroethane	2500 ug/mL
...8260 PENTACLE_00001	12/31/17	Restek, Lot A0116076			(Purchased Reagent)		Pentachloroethane	2500 ug/mL
LOWCYCHXWK_00149	07/10/17	06/26/17	Water, Lot NA	1 mL	8260CYCHXWK_00167	50 uL	Cyclohexanone	500 ug/mL
.8260CYCHXWK_00167	07/10/17	06/26/17	Water, Lot NA	2 mL	8260 CYCHX PT_00032	800 uL	Cyclohexanone	10000 ug/mL
..8260 CYCHX PT_00032	03/31/19	Restek, Lot A0118487			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
VA/2CEVE SPK_00114	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260 VASPKPT_00039	20 uL	Vinyl acetate	50 ug/mL
					8260CEVESPKPT_00027	40 uL	2-Chloroethyl vinyl ether	50 ug/mL
.8260 VASPKPT_00039	08/23/17	05/23/17	METHANOL, Lot NA	1 mL	VA SPK STK_00019	1 mL	Vinyl acetate	5000 ug/mL
..VA SPK STK_00019	09/30/17	Restek, Lot A0126061			(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260CEVESPKPT_00027	08/23/17	05/23/17	METHANOL, Lot NA	1 mL	CEVE SPK STK_00009	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..CEVE SPK STK_00009	11/30/18	Restek, Lot A0115500			(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
WCSTTC1_00122	11/09/17	Macron, Lot 0000123337			(Purchased Reagent)		TOC Result 1	2000 mg/L
							TOC Result 2	2000 mg/L
							Total Organic Carbon - Duplicates	2000 mg/L
WCSTTC2_00132	11/09/17	J.T Baker, Lot 0000123024			(Purchased Reagent)		TOC Result 1	2000 mg/L
							TOC Result 2	2000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Total Organic Carbon - Duplicates	2000 mg/L
WSTICCL1_00016	05/31/18	ERA, Lot 180516			(Purchased Reagent)		Chloride	1000 mg/L
WSTICCL2_00016	03/31/19	RICCA, Lot 1703J22			(Purchased Reagent)		Chloride	1000 mg/L
WSTICN031_00007	11/30/17	ERA, Lot 031115			(Purchased Reagent)		Nitrate as N	1000 mg/L
WSTICNO32_00014	11/30/18	RICCA, Lot 2705D50			(Purchased Reagent)		Nitrate as N	1000 mg/L
WSTICS1_00010	06/30/19	ERA, Lot 210617			(Purchased Reagent)		Sulfate	1000 mg/L
WSTICS2_00012	08/31/18	RICCA, Lot 2603747			(Purchased Reagent)		Sulfate	1000 mg/L
WSTSF1_00070	10/13/18	Na2Scrystal_3/1.5g, Lot 0.5MZnAcetat 34/20mL			(Purchased Reagent)		Sulfide	163.84 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SAICALSURR_00012	10/03/18	Matheson Trigas, Lot 109-46-10609			(Purchased Reagent)		1,1,1-Trifluoroethane	172158 ug/L
SARSK2NDSRCE_00010	10/13/18	Air Liquide-Scott Specialty gases, Lot 403-120156			(Purchased Reagent)		Ethane	12338 ug/L
							Ethylene	11518 ug/L
							Methane	6558 ug/L
SARSKHIGHCALP_00008	10/08/18	Matheson Trigas, Lot 109-66-14469			(Purchased Reagent)		Acetylene	10657 ug/L
							Ethane	12338 ug/L
							Ethylene	11518 ug/L
							Methane	6558 ug/L
							Propane	18077 ug/L
SARSKLOWCAL_00009	09/27/18	MATHESON TRI-GAS INC., Lot 109-56-13136			(Purchased Reagent)		Acetylene	1066 ug/L
							Ethane	1234 ug/L
							Ethylene	1152 ug/L
							Methane	656 ug/L
							Propane	1808 ug/L
SARSKSURR_00010	11/22/17	Matheson Trigas, Lot 9302603973			(Purchased Reagent)		1,1,1-Trifluoroethane	11190 ug/L
vm150is_00060	11/01/17	09/01/17	MEOH, Lot +191720000177891JR	5 mL	VM568718_00008	3 mL	Dioxane-d8 (IS)	3000 ug/mL
							Fluorobenzene	150 ug/mL
.VM568718_00008	03/31/21	restek, Lot A0118105			(Purchased Reagent)		Dioxane-d8 (IS)	5000 ug/mL
							Fluorobenzene	250 ug/mL
vm150is_00062	01/05/18	10/05/17	MEOH, Lot +191720000177891JR	5 mL	VM568718_00008	3 mL	Dioxane-d8 (IS)	3000 ug/mL
							Fluorobenzene	150 ug/mL
.VM568718_00008	03/31/21	restek, Lot A0118105			(Purchased Reagent)		Dioxane-d8 (IS)	5000 ug/mL
							Fluorobenzene	250 ug/mL
vm150is_00064	01/23/18	10/23/17	MEOH, Lot +191720000177891JR	5 mL	VM568718_00008	3 mL	Dioxane-d8 (IS)	3000 ug/mL
							Fluorobenzene	150 ug/mL
.VM568718_00008	03/31/21	restek, Lot A0118105			(Purchased Reagent)		Dioxane-d8 (IS)	5000 ug/mL
							Fluorobenzene	250 ug/mL
vm150ss_00006	12/06/17	07/06/17	MEOH, Lot +181520000147462JF	100 mL	VM567650_00026	6 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
.VM567650_00026	12/31/20	Restek, Lot A0115812			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
vm150ss_00007	01/22/18	10/22/17	MEOH, Lot +191720000177891JR	50 mL	VM567650_00027	3 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
.VM567650_00027	07/31/21	Restek, Lot A0120212			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
vm50ss_00299	10/10/17	10/03/17	MEOH, Lot na	4 mL	vm50ss_stk_00075	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
.vm50ss_stk_00075	03/08/18	09/08/17	MEOH, Lot 0000136118	200 mL	VM567650_00024	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
..VM567650_00024	07/31/20	Restek, Lot A0112455			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
vmbfb_00018							Tentatively Identified Compound	
					vm30026_00001	1.25 mL	BFB	50 ug/mL
.vm30026_00001	03/31/20	restek, Lot A0109427			(Purchased Reagent)		BFB	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vmdiox_spike_00121	10/12/17	10/05/17	MEOH, Lot na	1 mL	VMSIMSTOSPIKE_00010	1 mL	1,4-Dioxane	50 ug/mL
.VMSIMSTOSPIKE_00010	02/01/18	08/01/17	MEOH, Lot +181520000147462JF	100 mL	VMNSIMIX2_00006	100 uL	1,4-Dioxane	50 ug/mL
..VMNSIMIX2_00006	06/30/18	NSI Soln, Inc., Lot 062217			(Purchased Reagent)		1,4-Dioxane	50000 ug/mL
vmdiox_spike_00123	10/30/17	10/23/17	MEOH, Lot na	1 mL	VMSIMSTOSPIKE_00010	1 mL	1,4-Dioxane	50 ug/mL
.VMSIMSTOSPIKE_00010	02/01/18	08/01/17	MEOH, Lot +181520000147462JF	100 mL	VMNSIMIX2_00006	100 uL	1,4-Dioxane	50 ug/mL
..VMNSIMIX2_00006	06/30/18	NSI Soln, Inc., Lot 062217			(Purchased Reagent)		1,4-Dioxane	50000 ug/mL
vmdioxanew_00108	10/12/17	10/05/17	MEOH, Lot na	1 mL	vmdioxane_00021	1 mL	1,4-Dioxane	100 ug/mL
.vmdioxane_00021	12/18/17	06/18/17	MEOH, Lot +181520000147462JF	50 mL	VM30287_00014	2.5 mL	1,4-Dioxane	100 ug/mL
..VM30287_00014	02/28/21	Restek, Lot A0117572			(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
vmdioxanew_00110	10/30/17	10/23/17	MEOH, Lot na	1 mL	vmdioxane_00021	1 mL	1,4-Dioxane	100 ug/mL
.vmdioxane_00021	12/18/17	06/18/17	MEOH, Lot +181520000147462JF	50 mL	VM30287_00014	2.5 mL	1,4-Dioxane	100 ug/mL
..VM30287_00014	02/28/21	Restek, Lot A0117572			(Purchased Reagent)		1,4-Dioxane	2000 ug/mL

Reagent

SARSK2NDSRCE_00010

Scott™

2357148
ID: SARSK2NDSRCE_00010
Exp:10/13/18 Prpd:BPM Opn:01/08/16
1%,20% varluos gases

Shipped From: 6141 Easton Road
Plumsteadville, PA 18949
Phone: 215-766-8860
Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA
TESTAMERICA-1
4101 Shuffel St NW
NORTH CANTON, OH 44720-6900
US

Sales Order # : 505422
P.O. #.: 2621142
Item No.: A0911317
Date: 14Oct2015

Cylinder #: ST0000153189
Fill Pressure: 240 PSIG
CGA: 600

Product Expiration: 13Oct2018
Lot #: 403-120156

Blend Type: CERTIFIED SCOTTY

Component Name	Requested Gas Conc (Moles)	Analysis (Mole)	Accuracy (+ / - %)
ACETYLENE	1.00 %	1.00 %	5
ETHANE	1.00 %	1.01 %	5
ETHYLENE	1.00 %	1.01 %	5
METHANE	1.00 %	0.990 %	5
PROPANE	1.00 %	0.998 %	5
HELIUM	BALANCE	BALANCE	

APPROVED BY: Lynn Matonis
Lynn Matonis

DATE: 12Oct2015

AIR LIQUIDE

Reagent

SARSKHIGHCALP_00008

MATHESON TRI-GAS INC
1650 Enterprise Pkwy
Twinsburg, OH 44087
1-215-648-4000

RCVD
10/14/16

CERTIFICATE OF ANALYSIS

Test America

Ref Po# 092916TB

17 LITER DISPOSABLE

LOT NUMBER: 109-66-14469

COMPONENT	CONCENTRATION	
ethane	1.00	%
propane	0.999	%
ethylene	0.999	%
acetylene	1.00	%
methane	1.00	%
helium	BAL	

ITEM NUMBER: GMT2690244TB

CGA: 600

PSIG: 240

FILL DATE: 10/07/16

EXPIRATION DATE: 10/08/18

Above are the results of the analysis you requested, as reported by our laboratory. Results are in mole percent, unless otherwise indicated. Mixture accuracy is ± 2%. NIST traceable by weights or gaseous standards.

Amanda Miller, Lab Technician

10/10/2016
DATE

Reagent

vm30026_00001

Rec: 8/10/25

VM30026-00001

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30026 **Lot No.:** A0109427

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,009.0 µg/mL	+/- 11.7899 µg/mL +/- 22.7110 µg/mL +/- 26.1178 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM30287_00014

VM 30287-00014 Rec: 7/8/16 (10)

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30287 **Lot No.:** A0117572

Description : 1,4-Dioxane Standard

1,4-Dioxane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane	2,014.4 µg/mL	+/- 11.8216 µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBG1461V)		+/- 43.1585 µg/mL	Unstressed
	Purity 99%		+/- 44.4114 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00024

VM567650_00024

Rec: 9/16/15

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0112455

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,509.6 µg/mL	+/- 14.5910	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 022012)		+/- 28.2993	µg/mL	Unstressed
	Purity 99%			+/- 32.5644	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,507.5 µg/mL	+/- 14.5788	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot 14C-191)		+/- 28.2757	µg/mL	Unstressed
	Purity 99%			+/- 32.5371	µg/mL	Stressed
3	Toluene-d8		2,509.0 µg/mL	+/- 14.5875	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-26282)		+/- 28.2926	µg/mL	Unstressed
	Purity 99%			+/- 32.5566	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,506.0 µg/mL	+/- 14.5701	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KOV)		+/- 28.2587	µg/mL	Unstressed
	Purity 99%			+/- 32.5176	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00026

VM567650-00026

Rec: 1/26/16

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Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

33

Catalog No. : 567650 **Lot No.:** A0115812

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 022012) **Purity** 99%	2,503.1 µg/mL	+/- 14.5534 µg/mL +/- 140.3482 µg/mL +/- 143.6322 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 14C-191) **Purity** 99%	2,500.1 µg/mL	+/- 14.5360 µg/mL +/- 140.1800 µg/mL +/- 143.4600 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-26282) **Purity** 99%	2,505.0 µg/mL	+/- 14.5643 µg/mL +/- 140.4529 µg/mL +/- 143.7393 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 140.2361 µg/mL +/- 143.5174 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00027

VM567650-00027 Rec: 4/10/17 (39)

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Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0120212

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 032015) **Purity** 99%	2,521.3 µg/mL	+/- 14.6591 µg/mL +/- 141.3668 µg/mL +/- 144.6746 µg/mL		Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 14C-191) **Purity** 99%	2,523.7 µg/mL	+/- 14.6730 µg/mL +/- 141.5014 µg/mL +/- 144.8123 µg/mL		Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-26623) **Purity** 99%	2,523.6 µg/mL	+/- 14.6724 µg/mL +/- 141.4957 µg/mL +/- 144.8066 µg/mL		Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,510.9 µg/mL	+/- 14.5986 µg/mL +/- 140.7837 µg/mL +/- 144.0778 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568718_00008

VM568718_00008 Rec: 7/12/16

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0118105

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 **Purity** 99%	(Lot I201P6)	5,023.8 µg/mL	+/- 29.2073 µg/mL +/- 107.5597 µg/mL +/- 110.6867 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone-d5 **CAS #** 24313-50-6 **Purity** 99%	(Lot M276)	1,251.1 µg/mL	+/- 7.2740 µg/mL +/- 26.7862 µg/mL +/- 27.5649 µg/mL		Gravimetric Unstressed Stressed
3	Fluorobenzene **CAS #** 462-06-6 **Purity** 99%	(Lot BCBK8171V)	250.2 µg/mL	+/- 1.4578 µg/mL +/- 5.3567 µg/mL +/- 5.5123 µg/mL		Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 **Purity** 99%	(Lot I-19239)	5,005.7 µg/mL	+/- 29.1020 µg/mL +/- 107.1722 µg/mL +/- 110.2879 µg/mL		Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 **CAS #** 3114-55-4 **Purity** 99%	(Lot PR-23926)	250.1 µg/mL	+/- 1.4575 µg/mL +/- 5.3556 µg/mL +/- 5.5112 µg/mL		Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 **Purity** 99%	(Lot PR-18488)	250.0 µg/mL	+/- 1.4566 µg/mL +/- 5.3524 µg/mL +/- 5.5079 µg/mL		Gravimetric Unstressed Stressed

Reagent

VMNSIMIX2_00006

nsi lab solutions
protect more. test more.
7212 ACC Blvd. | Raleigh, NC 27617 | 800.234.7837

Certificate of Analysis

8260 Extras Mix 2

Catalog Number: Q-3383
Lot Number: 062217
Manufacture Date: 06/22/17

Expiration: 06/30/2018
Solvent: Methanol/Water
Hazards: Irritant, Toxic

Analyte	CAS	Analyte Purity	Gravimetric Concentration (ug/mL)
Ethylene oxide	75-21-8	99.0%	25000.0 ± 176
Epichlorohydrin	106-89-8	99.9%	9998.2 ± 70
Propylene oxide	75-56-9	99.0%	10000.8 ± 71
1,4-Dioxane	123-91-1	100%	50001.9 ± 353

Packaging, Storage, Instructions For Use

This standard is packaged in a flame-sealed ampule and **must be stored at -15 to -30°C.** To use this standard, allow it to reach room temperature. Mix it gently by inversion. Inspect for precipitate. If present, sonicate for a few minutes to redissolve. Open the ampule and withdraw an aliquot appropriate for your application.

Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this standard. The actual purity is referenced above.

Method: This standard was verified gravimetrically.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our standards is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
OMW1D-GW-102317	500-136132-1	87	85	90	93
EIP-DUP-102317	500-136132-2	87	84	90	94
EIP-TB08-102317	500-136132-3	87	85	90	95
EIP-EB-102317	500-136132-4	86	86	91	94
	MB 500-407232/6	85	78	91	96
	LCS 500-407232/4	88	78	95	92

	QC LIMITS
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-126
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	72-124

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18S1027.d

Lab ID: LCS 500-407232/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	0.0500	0.0421	84	70-125	
1,1,1-Trichloroethane	0.0500	0.0488	98	70-125	
1,1,2,2-Tetrachloroethane	0.0500	0.0386	77	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0484	97	70-123	
1,1,2-Trichloroethane	0.0500	0.0391	78	70-122	
1,1-Dichloroethane	0.0500	0.0450	90	70-125	
1,1-Dichloroethene	0.0500	0.0460	92	67-122	
1,1-Dichloropropene	0.0500	0.0487	97	70-121	
1,2,3-Trichlorobenzene	0.0500	0.0340	68	55-140	
1,2,3-Trichloropropane	0.0500	0.0358	72	50-133	
1,2,4-Trichlorobenzene	0.0500	0.0373	75	66-127	
1,2,4-Trimethylbenzene	0.0500	0.0473	95	70-123	
1,2-Dibromo-3-Chloropropane	0.0500	0.0281	56	56-123	
1,2-Dibromoethane	0.0500	0.0373	75	70-125	
1,2-Dichlorobenzene	0.0500	0.0424	85	70-125	
1,2-Dichloroethane	0.0500	0.0394	79	68-127	
1,2-Dichloropropane	0.0500	0.0466	93	67-130	
1,3,5-Trimethylbenzene	0.0500	0.0489	98	70-123	
1,3-Dichlorobenzene	0.0500	0.0449	90	70-125	
1,3-Dichloropropane	0.0500	0.0401	80	62-136	
1,4-Dichlorobenzene	0.0500	0.0451	90	70-120	
1,4-Dioxane	1.00	0.954	95	70-129	
2,2-Dichloropropane	0.0500	0.0561	112	58-129	
2-Chloroethyl vinyl ether	0.0500	0.0371	74	52-136	
2-Chlorotoluene	0.0500	0.0522	104	70-125	
2-Hexanone	0.0500	0.0345	69	56-135	
4-Chlorotoluene	0.0500	0.0475	95	68-124	
Acetone	0.0500	0.0414	83	40-143	
Acrolein	2.00	1.32	66	40-150	
Acrylonitrile	0.500	0.402	80	67-140	
Benzene	0.0500	0.0496	99	70-120	
Bromobenzene	0.0500	0.0448	90	70-122	
Bromochloromethane	0.0500	0.0435	87	65-122	
Bromodichloromethane	0.0500	0.0427	85	69-120	
Bromoform	0.0500	0.0352	70	56-132	
Bromomethane	0.0500	0.0738	148	40-130	*
Carbon disulfide	0.0500	0.0464	93	66-120	
Carbon tetrachloride	0.0500	0.0488	98	65-122	
Chlorobenzene	0.0500	0.0468	94	70-120	
Chloroethane	0.0500	0.0594	119	45-127	
Chloroform	0.0500	0.0433	87	70-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18S1027.d

Lab ID: LCS 500-407232/4 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	0.0500	0.0445	89	54-147	
cis-1,2-Dichloroethene	0.0500	0.0460	92	70-125	
cis-1,3-Dichloropropene	0.0500	0.0393	79	64-127	
Cyclohexane	0.0500	0.0519	104	69-142	
Dibromochloromethane	0.0500	0.0375	75	68-125	
Dibromomethane	0.0500	0.0407	81	70-120	
Dichlorodifluoromethane	0.0500	0.0303	61	40-150	
Ethylbenzene	0.0500	0.0483	97	70-120	
Iodomethane	0.0500	0.0474	95	61-136	
Isopropylbenzene	0.0500	0.0495	99	70-126	
Methyl acetate	0.100	0.0759	76	56-150	
Methyl Ethyl Ketone	0.0500	0.0378	76	53-141	
methyl isobutyl ketone	0.0500	0.0361	72	56-133	
Methyl tert-butyl ether	0.0500	0.0373	75	70-120	
Methylcyclohexane	0.0500	0.0495	99	70-120	
Methylene Chloride	0.0500	0.0483	97	69-125	
Naphthalene	0.0500	0.0307	61	59-130	
n-Butylbenzene	0.0500	0.0475	95	68-125	
N-Propylbenzene	0.0500	0.0494	99	69-127	
p-Isopropyltoluene	0.0500	0.0485	97	70-125	
sec-Butylbenzene	0.0500	0.0486	97	70-123	
Styrene	0.0500	0.0469	94	70-120	
tert-Butyl alcohol	0.500	0.473	95	70-125	
tert-Butylbenzene	0.0500	0.0487	97	70-121	
Tetrachloroethene	0.0500	0.0499	100	70-128	
Toluene	0.0500	0.0496	99	70-125	
trans-1,2-Dichloroethene	0.0500	0.0469	94	70-125	
trans-1,3-Dichloropropene	0.0500	0.0370	74	62-128	
trans-1,4-Dichloro-2-butene	0.0500	0.0317	63	60-130	
Trichloroethene	0.0500	0.0485	97	70-125	
Trichlorofluoromethane	0.0500	0.0407	81	70-126	
Vinyl acetate	0.0500	0.0377	75	43-133	
Vinyl chloride	0.0500	0.0413	83	64-126	
Xylenes, Total	0.100	0.0973	97	70-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab File ID: 18M1027.d Lab Sample ID: MB 500-407232/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CMS18 Date Analyzed: 10/27/2017 10:02

GC Column: DB624 ID: 0.2(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-407232/4	18S1027.d	10/27/2017 09:11
OMW1D-GW-102317	500-136132-1	500-136132-g-1.d	10/27/2017 13:23
EIP-DUP-102317	500-136132-2	500-136132-g-2.d	10/27/2017 13:48
EIP-TB08-102317	500-136132-3	500-136132-a-3.d	10/27/2017 14:13
EIP-EB-102317	500-136132-4	500-136132-a-4.d	10/27/2017 14:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab File ID: 18B0630.d BFB Injection Date: 06/30/2017

Instrument ID: CMS18 BFB Injection Time: 12:41

Analysis Batch No.: 391473

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.8	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	89.5	
175	5.0 - 9.0 % of mass 174	7.5	(8.3) 1
176	95.0 - 101.0 % of mass 174	88.1	(98.5) 1
177	5.0 - 9.0 % of mass 176	6.3	(7.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD03AP 500-391473/14	18J0630C.d	06/30/2017	18:41
	STD04AP 500-391473/15	18J0630D.d	06/30/2017	19:05
	STD05AP 500-391473/16	18J0630E.d	06/30/2017	19:30
	STD06AP 500-391473/17	18J0630F.d	06/30/2017	20:19
	STD07AP 500-391473/18	18J0630G.d	06/30/2017	20:44
	STD08AP 500-391473/19	18J0630H.d	06/30/2017	21:10
	STD09AP 500-391473/20	18J0630I.d	06/30/2017	21:35
	STD10AP 500-391473/21	18J0630J.d	06/30/2017	22:00

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab File ID: 18B0705C.d BFB Injection Date: 07/05/2017

Instrument ID: CMS18 BFB Injection Time: 12:47

Analysis Batch No.: 391894

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.1
75	30.0 - 60.0 % of mass 95	45.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	87.6
175	5.0 - 9.0 % of mass 174	7.3 (8.3) 1
176	95.0 - 101.0 % of mass 174	86.5 (98.7) 1
177	5.0 - 9.0 % of mass 176	6.5 (7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD01 500-391894/2	18I0705A.d	07/05/2017	13:26
	STD02 500-391894/3	18I0705B.d	07/05/2017	13:52
	STD03 500-391894/4	18I0705C.d	07/05/2017	14:16
	STD04 500-391894/5	18I0705D.d	07/05/2017	14:41
	STD05 500-391894/6	18I0705E.d	07/05/2017	15:06
	STD06 500-391894/7	18I0705F.d	07/05/2017	15:31
	STD07 500-391894/8	18I0705G.d	07/05/2017	15:56
	STD08 500-391894/9	18I0705H.d	07/05/2017	16:21
	STD09 500-391894/10	18I0705I.d	07/05/2017	16:46
	STD10 500-391894/11	18I0705J.d	07/05/2017	17:12
	ICV 500-391894/14	18S0705ICV1.d	07/05/2017	18:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab File ID: 18B1027.d BFB Injection Date: 10/27/2017

Instrument ID: CMS18 BFB Injection Time: 07:56

Analysis Batch No.: 407232

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.8	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	90.9	
175	5.0 - 9.0 % of mass 174	7.5	(8.3) 1
176	95.0 - 101.0 % of mass 174	91.5	(100.7) 1
177	5.0 - 9.0 % of mass 176	7.2	(7.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-407232/2	18C1027.d	10/27/2017	08:21
	CCV 500-407232/3	18D1027.d	10/27/2017	08:46
	LCS 500-407232/4	18S1027.d	10/27/2017	09:11
	MB 500-407232/6	18M1027.d	10/27/2017	10:02
OMW1D-GW-102317	500-136132-1	500-136132-g-1.d	10/27/2017	13:23
EIP-DUP-102317	500-136132-2	500-136132-g-2.d	10/27/2017	13:48
EIP-TB08-102317	500-136132-3	500-136132-a-3.d	10/27/2017	14:13
EIP-EB-102317	500-136132-4	500-136132-a-4.d	10/27/2017	14:38

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Sample No.: STD07 500-391894/8 Date Analyzed: 07/05/2017 15:56

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18I0705G.d Heated Purge: (Y/N) N

Calibration ID: 24901

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		180389	3.75	801683	6.14	18119	6.83
UPPER LIMIT		360778	4.25	1603366	6.64	36238	7.33
LOWER LIMIT		90195	3.25	400842	5.64	9060	6.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-391894/14		175585	3.75	774889	6.14	18363	6.83
CCVIS 500-407232/2		96130	3.74	703322	6.14	12872	6.83
CCV 500-407232/3		99154	3.74	781877	6.14	13870	6.83
LCS 500-407232/4		98936	3.74	751188	6.14	14077	6.83
MB 500-407232/6		104747	3.74	807434	6.14	13773	6.83
500-136132-1	OMW1D-GW-102317	120251	3.74	750243	6.14	14644	6.83
500-136132-2	EIP-DUP-102317	124288	3.74	741728	6.14	14878	6.83
500-136132-3	EIP-TB08-102317	122341	3.74	752685	6.14	14521	6.83
500-136132-4	EIP-EB-102317	126431	3.74	737373	6.14	16187	6.83

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Sample No.: STD07 500-391894/8 Date Analyzed: 07/05/2017 15:56

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18I0705G.d Heated Purge: (Y/N) N

Calibration ID: 24901

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		569472	9.41	326186	12.83		
UPPER LIMIT		1138944	9.91	652372	13.33		
LOWER LIMIT		284736	8.91	163093	12.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-391894/14		555755	9.41	311287	12.84		
CCVIS 500-407232/2		540821	9.41	299358	12.83		
CCV 500-407232/3		605204	9.41	310538	12.83		
LCS 500-407232/4		568842	9.41	309179	12.83		
MB 500-407232/6		642542	9.41	296647	12.83		
500-136132-1	OMW1D-GW-102317	583005	9.41	287000	12.83		
500-136132-2	EIP-DUP-102317	580500	9.41	287682	12.83		
500-136132-3	EIP-TB08-102317	584014	9.41	284551	12.83		
500-136132-4	EIP-EB-102317	572250	9.41	280186	12.83		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Sample No.: CCVIS 500-407232/2 Date Analyzed: 10/27/2017 08:21

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18C1027.d Heated Purge: (Y/N) N

Calibration ID: 24901

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		96130	3.74	703322	6.14	12872	6.83
UPPER LIMIT		192260	4.24	1406644	6.64	25744	7.33
LOWER LIMIT		48065	3.24	351661	5.64	6436	6.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 500-407232/3		99154	3.74	781877	6.14	13870	6.83
LCS 500-407232/4		98936	3.74	751188	6.14	14077	6.83
MB 500-407232/6		104747	3.74	807434	6.14	13773	6.83
500-136132-1	OMW1D-GW-102317	120251	3.74	750243	6.14	14644	6.83
500-136132-2	EIP-DUP-102317	124288	3.74	741728	6.14	14878	6.83
500-136132-3	EIP-TB08-102317	122341	3.74	752685	6.14	14521	6.83
500-136132-4	EIP-EB-102317	126431	3.74	737373	6.14	16187	6.83

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Sample No.: CCVIS 500-407232/2 Date Analyzed: 10/27/2017 08:21

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18C1027.d Heated Purge: (Y/N) N

Calibration ID: 24901

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		540821	9.41	299358	12.83		
UPPER LIMIT		1081642	9.91	598716	13.33		
LOWER LIMIT		270411	8.91	149679	12.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 500-407232/3		605204	9.41	310538	12.83		
LCS 500-407232/4		568842	9.41	309179	12.83		
MB 500-407232/6		642542	9.41	296647	12.83		
500-136132-1	OMW1D-GW-102317	583005	9.41	287000	12.83		
500-136132-2	EIP-DUP-102317	580500	9.41	287682	12.83		
500-136132-3	EIP-TB08-102317	584014	9.41	284551	12.83		
500-136132-4	EIP-EB-102317	572250	9.41	280186	12.83		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1

SDG No.:

Client Sample ID: OMW1D-GW-102317 | Lab Sample ID: 500-136132-1

Matrix: Water | Lab File ID: 500-136132-g-1.d

Analysis Method: 8260B | Date Collected: 10/23/2017 12:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 13:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00035
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00041
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00039
563-58-6	1,1-Dichloropropene	ND		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	ND		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	ND		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	ND		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	ND		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020
106-93-4	1,2-Dibromoethane	ND		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	ND		0.0010	0.00033
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00039
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	ND		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	ND		0.0010	0.00040
142-28-9	1,3-Dichloropropane	ND		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00036
123-91-1	1,4-Dioxane	ND		0.10	0.041
594-20-7	2,2-Dichloropropane	ND		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	ND		0.0010	0.00031
591-78-6	2-Hexanone	ND		0.0050	0.0016
106-43-4	4-Chlorotoluene	ND		0.0010	0.00035
67-64-1	Acetone	0.0056	cn	0.0050	0.0017
107-02-8	Acrolein	ND		0.10	0.023
107-13-1	Acrylonitrile	ND		0.020	0.0045
71-43-2	Benzene	ND		0.00050	0.00015
108-86-1	Bromobenzene	ND		0.0010	0.00036
74-97-5	Bromochloromethane	ND		0.0010	0.00043
75-27-4	Bromodichloromethane	0.00082	J	0.0010	0.00037
75-25-2	Bromoform	ND		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1

SDG No.:

Client Sample ID: OMW1D-GW-102317 | Lab Sample ID: 500-136132-1

Matrix: Water | Lab File ID: 500-136132-g-1.d

Analysis Method: 8260B | Date Collected: 10/23/2017 12:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 13:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	ND	*	0.0020	0.00080
75-15-0	Carbon disulfide	ND		0.0020	0.00045
56-23-5	Carbon tetrachloride	ND		0.0010	0.00038
108-90-7	Chlorobenzene	ND		0.0010	0.00039
75-00-3	Chloroethane	ND		0.0010	0.00051
67-66-3	Chloroform	0.0049		0.0020	0.00037
74-87-3	Chloromethane	ND		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	ND		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00042
110-82-7	Cyclohexane	ND		0.0010	0.00049
124-48-1	Dibromochloromethane	ND		0.0010	0.00049
74-95-3	Dibromomethane	ND		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	ND		0.0020	0.00067
100-41-4	Ethylbenzene	ND		0.00050	0.00018
74-88-4	Iodomethane	ND		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	ND		0.0010	0.00039
79-20-9	Methyl acetate	ND		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	ND		0.0050	0.0021
108-10-1	methyl isobutyl ketone	ND		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	ND		0.0010	0.00039
108-87-2	Methylcyclohexane	ND		0.0010	0.00032
75-09-2	Methylene Chloride	0.0056	cn	0.0050	0.0016
91-20-3	Naphthalene	ND		0.0010	0.00034
104-51-8	n-Butylbenzene	ND		0.0010	0.00039
103-65-1	N-Propylbenzene	ND		0.0010	0.00041
99-87-6	p-Isopropyltoluene	ND		0.0010	0.00036
135-98-8	sec-Butylbenzene	ND		0.0010	0.00040
100-42-5	Styrene	ND		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	ND		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	ND		0.0010	0.00040
127-18-4	Tetrachloroethene	ND		0.0010	0.00037
108-88-3	Toluene	0.00050		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	ND		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1

SDG No.:

Client Sample ID: OMW1D-GW-102317 | Lab Sample ID: 500-136132-1

Matrix: Water | Lab File ID: 500-136132-g-1.d

Analysis Method: 8260B | Date Collected: 10/23/2017 12:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 13:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012
79-01-6	Trichloroethene	ND		0.00050	0.00016
75-69-4	Trichlorofluoromethane	ND		0.0010	0.00043
108-05-4	Vinyl acetate	ND		0.0020	0.00091
75-01-4	Vinyl chloride	ND		0.00050	0.00020
1330-20-7	Xylenes, Total	ND		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		75-126
460-00-4	4-Bromofluorobenzene (Surr)	93		72-124
1868-53-7	Dibromofluoromethane	87		75-120
2037-26-5	Toluene-d8 (Surr)	90		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-1.d
Lims ID: 500-136132-G-1
Client ID: OMW1D-GW-102317
Sample Type: Client
Inject. Date: 27-Oct-2017 13:23:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136132-g-1
Misc. Info.: 500-0048650-014
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 17:26:03 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: huntjj Date: 27-Oct-2017 17:26:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
14 Acetone	43	3.266	3.255	0.011	61	3812	5.56	
21 Methylene Chloride	84	3.683	3.683	0.000	93	23098	5.56	
* 22 TBA-d9 (IS)	65	3.742	3.737	0.005	0	120251	1000.0	
41 Chloroform	83	5.294	5.294	0.000	83	35734	4.90	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	171898	43.3	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	164768	42.5	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	750243	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	14644	1000.0	
65 Dichlorobromomethane	83	7.032	7.032	0.000	49	3596	0.8238	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	718960	45.0	
71 Toluene	92	7.872	7.872	0.000	60	5323	0.4975	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	583005	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	94	262599	46.4	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	94	287000	50.0	

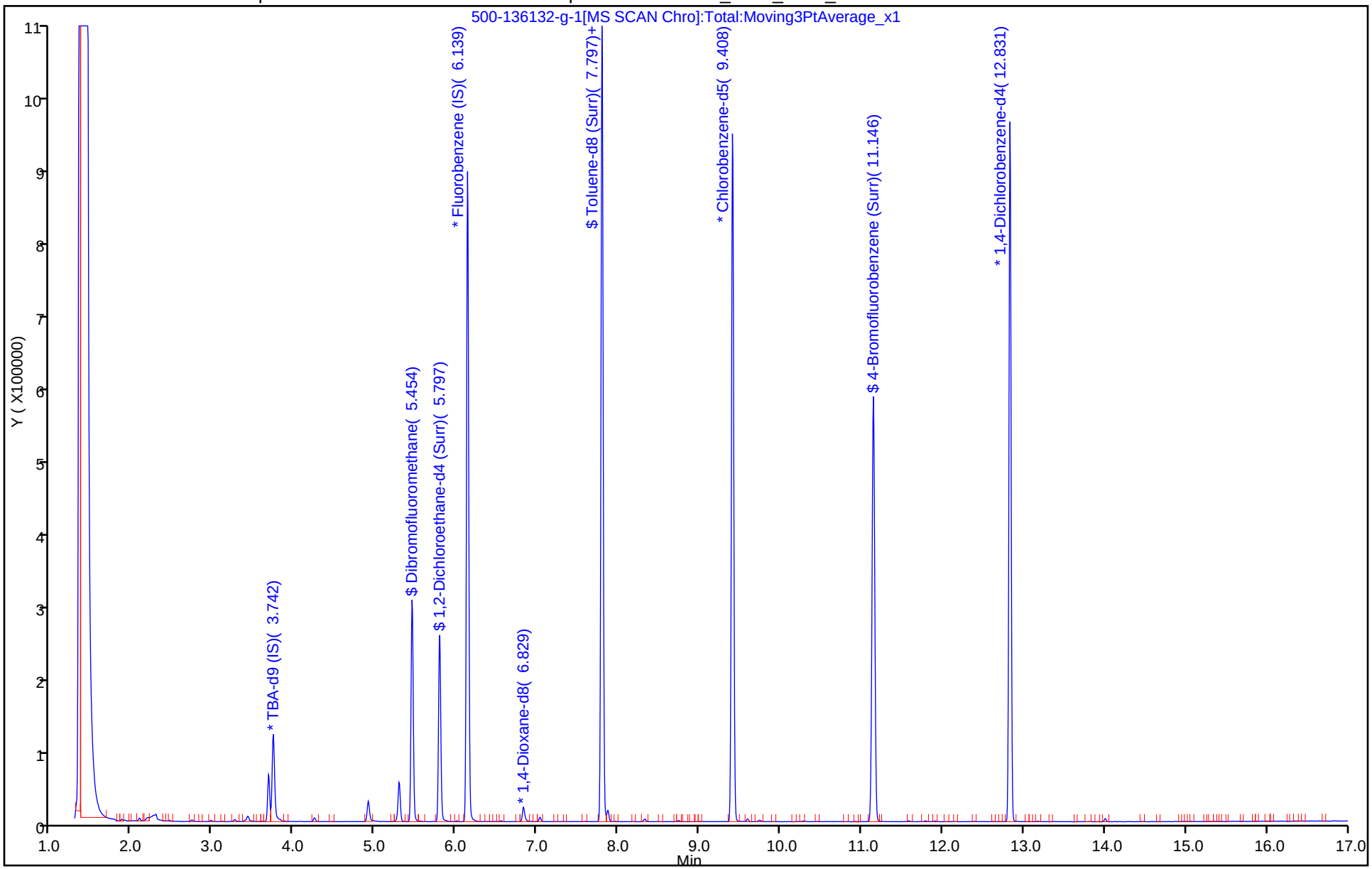
Reagents:

8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Oct-2017 17:26:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-1.d				
Injection Date:	27-Oct-2017 13:23:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136132-G-1	Lab Sample ID:	500-136132-1	Worklist Smp#:	14
Client ID:	OMW1D-GW-102317				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-1.d				
Lims ID:	500-136132-G-1				
Client ID:	OMW1D-GW-102317				
Sample Type:	Client				
Inject. Date:	27-Oct-2017 13:23:30	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-g-1				
Misc. Info.:	500-0048650-014				
Operator ID:	JH	Instrument ID:	CMS18		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Method Label:	TAL Chicago VOA Report		
Last Update:	27-Oct-2017 17:26:03	Calib Date:	05-Jul-2017 17:12:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d		

Column 1 :		Det: MS SCAN	
Process Host:	XAWRK011		

First Level Reviewer: huntjj Date: 27-Oct-2017 17:26:08

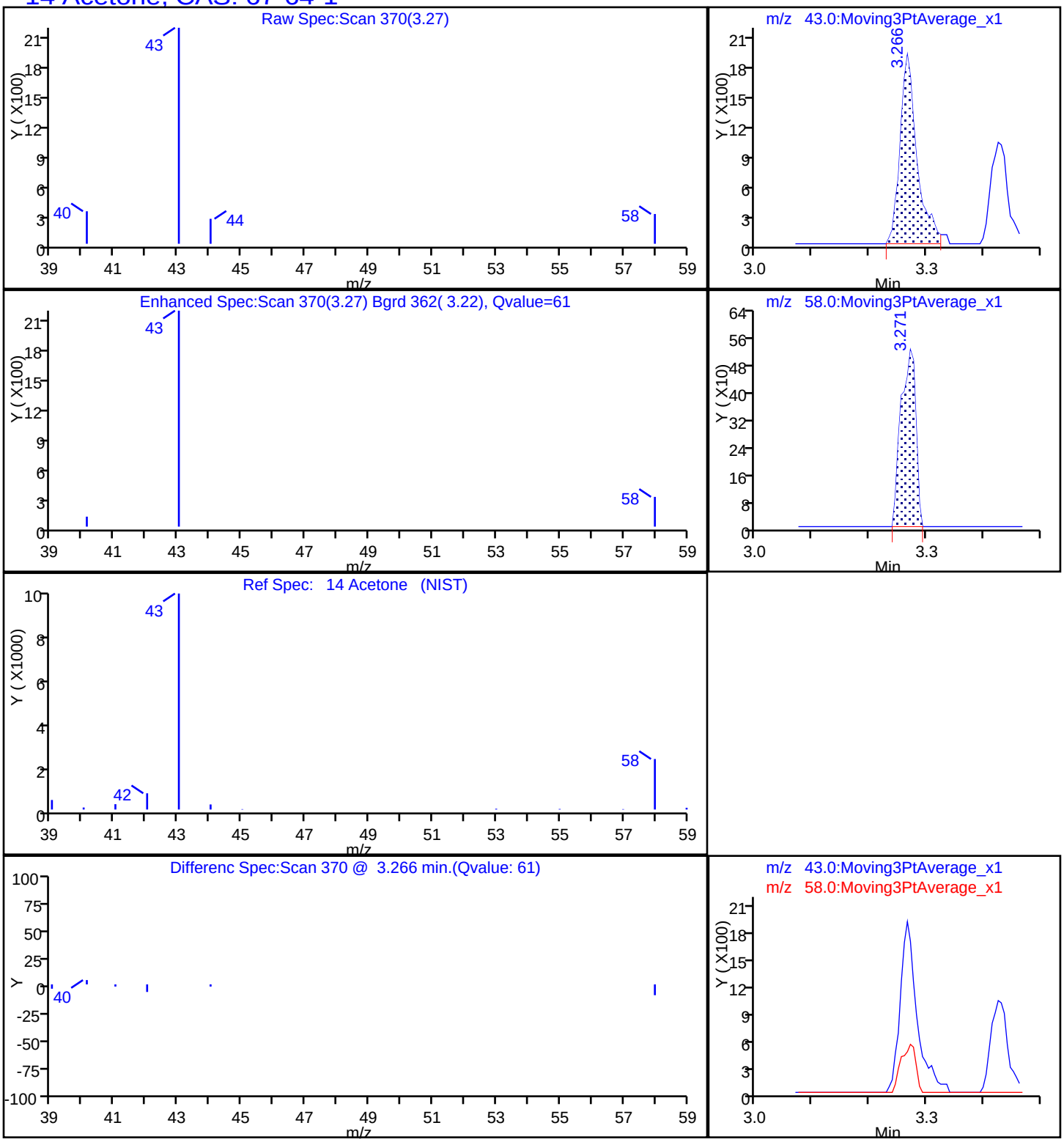
Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	43.3	86.59
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	42.5	84.90
$ 70 Toluene-d8 (Surr)	50.0	45.0	90.04
$ 92 4-Bromofluorobenzene (Surr)	50.0	46.4	92.73

Report Date: 27-Oct-2017 17:26:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-1.d				
Injection Date:	27-Oct-2017 13:23:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-1	Lab Sample ID:	500-136132-1		
Client ID:	OMW1D-GW-102317				
Operator ID:	JH	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

14 Acetone, CAS: 67-64-1

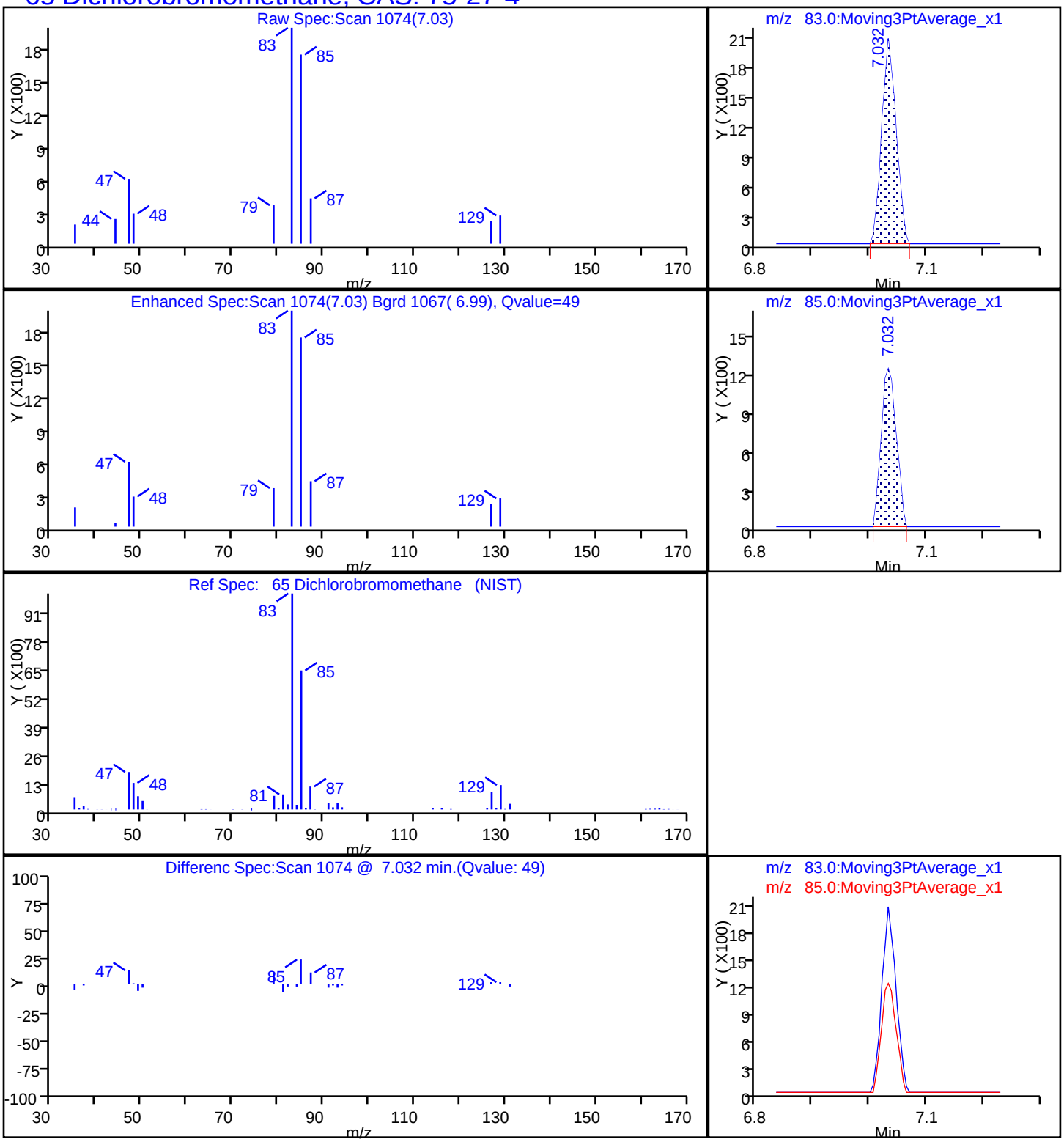


Report Date: 27-Oct-2017 17:26:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-1.d				
Injection Date:	27-Oct-2017 13:23:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-1	Lab Sample ID:	500-136132-1		
Client ID:	OMW1D-GW-102317				
Operator ID:	JH	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

65 Dichlorobromomethane, CAS: 75-27-4

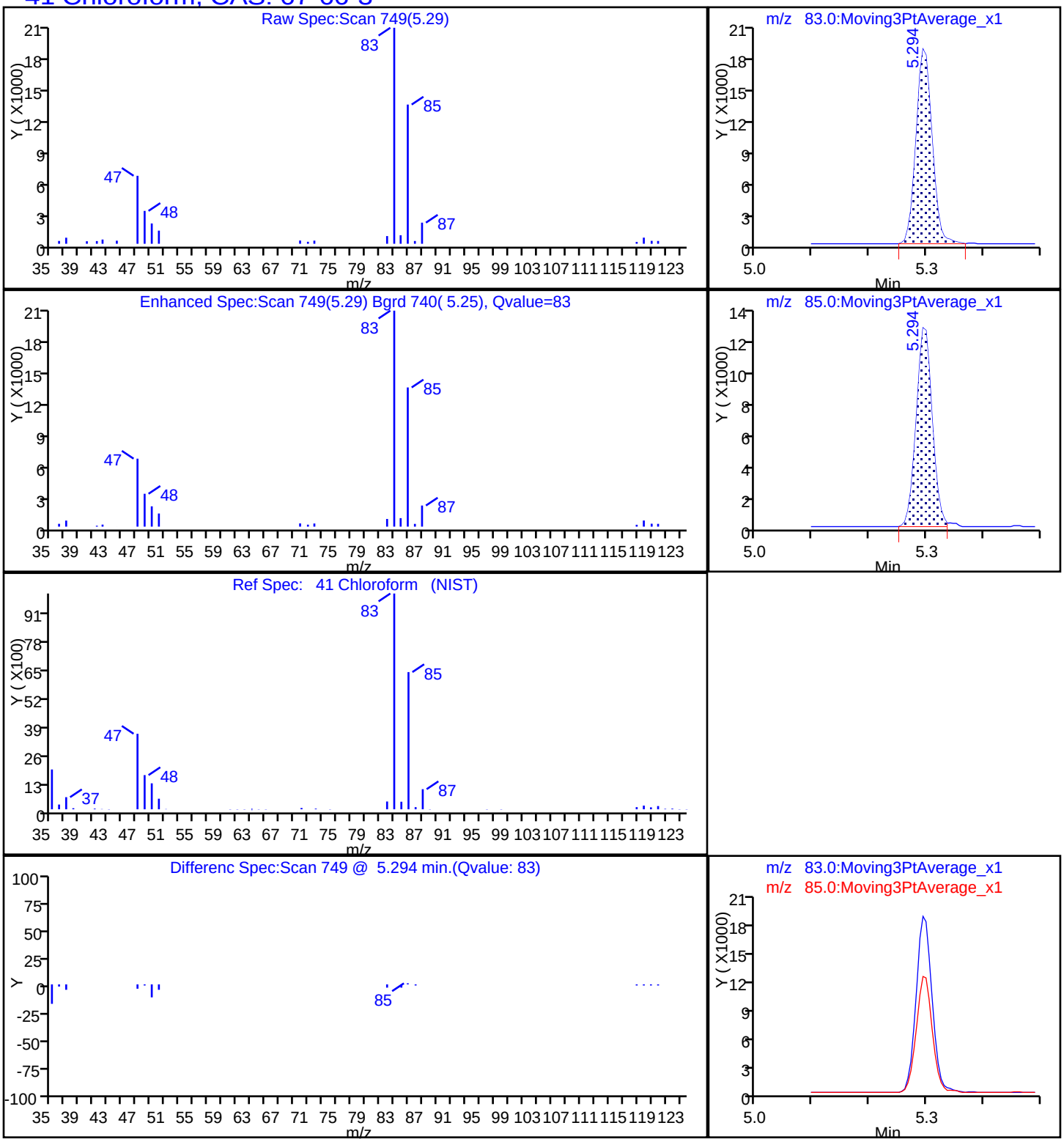


Report Date: 27-Oct-2017 17:26:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-1.d				
Injection Date:	27-Oct-2017 13:23:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-1	Lab Sample ID:	500-136132-1		
Client ID:	OMW1D-GW-102317				
Operator ID:	JH	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

41 Chloroform, CAS: 67-66-3

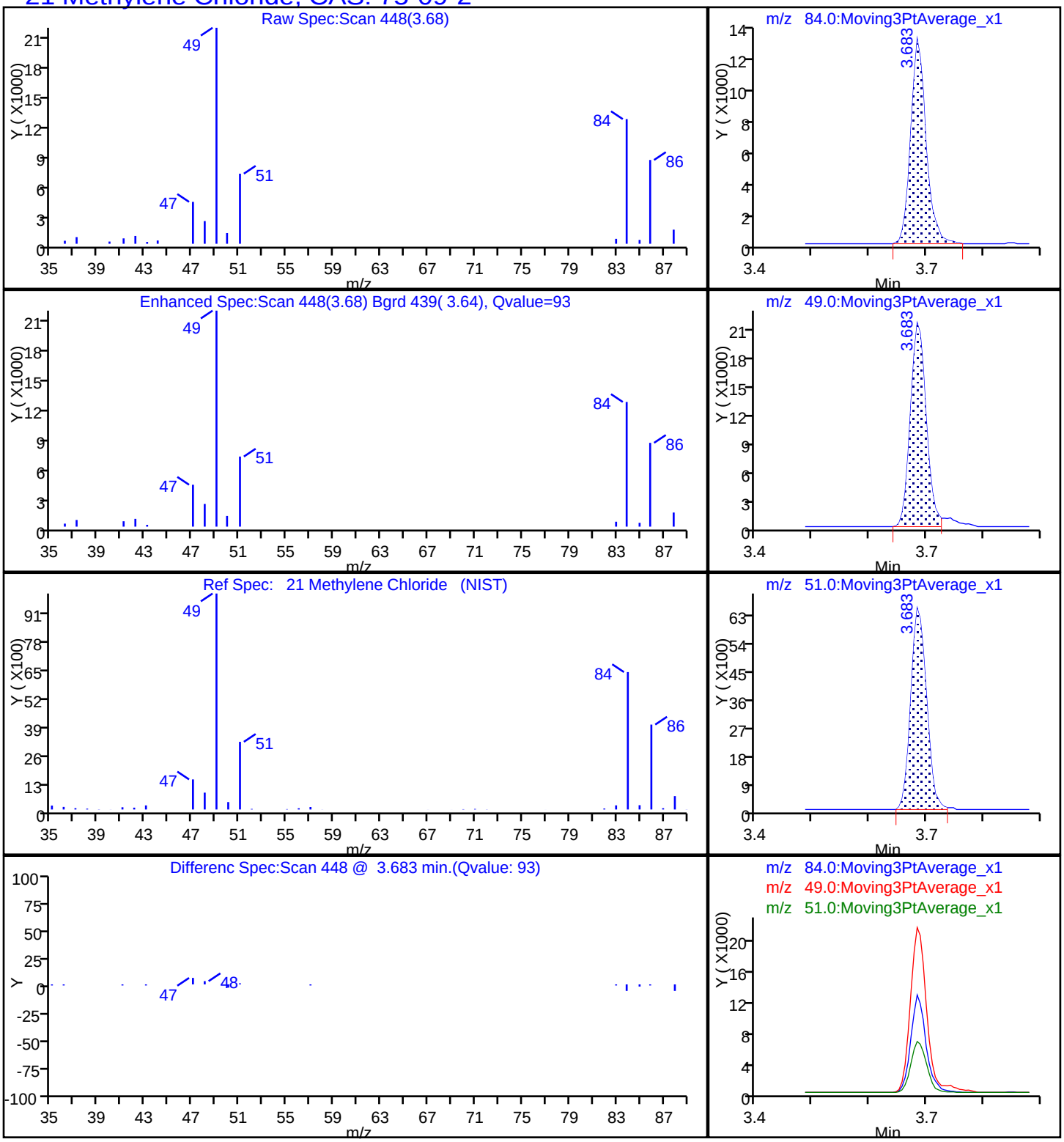


Report Date: 27-Oct-2017 17:26:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-1.d				
Injection Date:	27-Oct-2017 13:23:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-1	Lab Sample ID:	500-136132-1		
Client ID:	OMW1D-GW-102317				
Operator ID:	JH	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

21 Methylene Chloride, CAS: 75-09-2

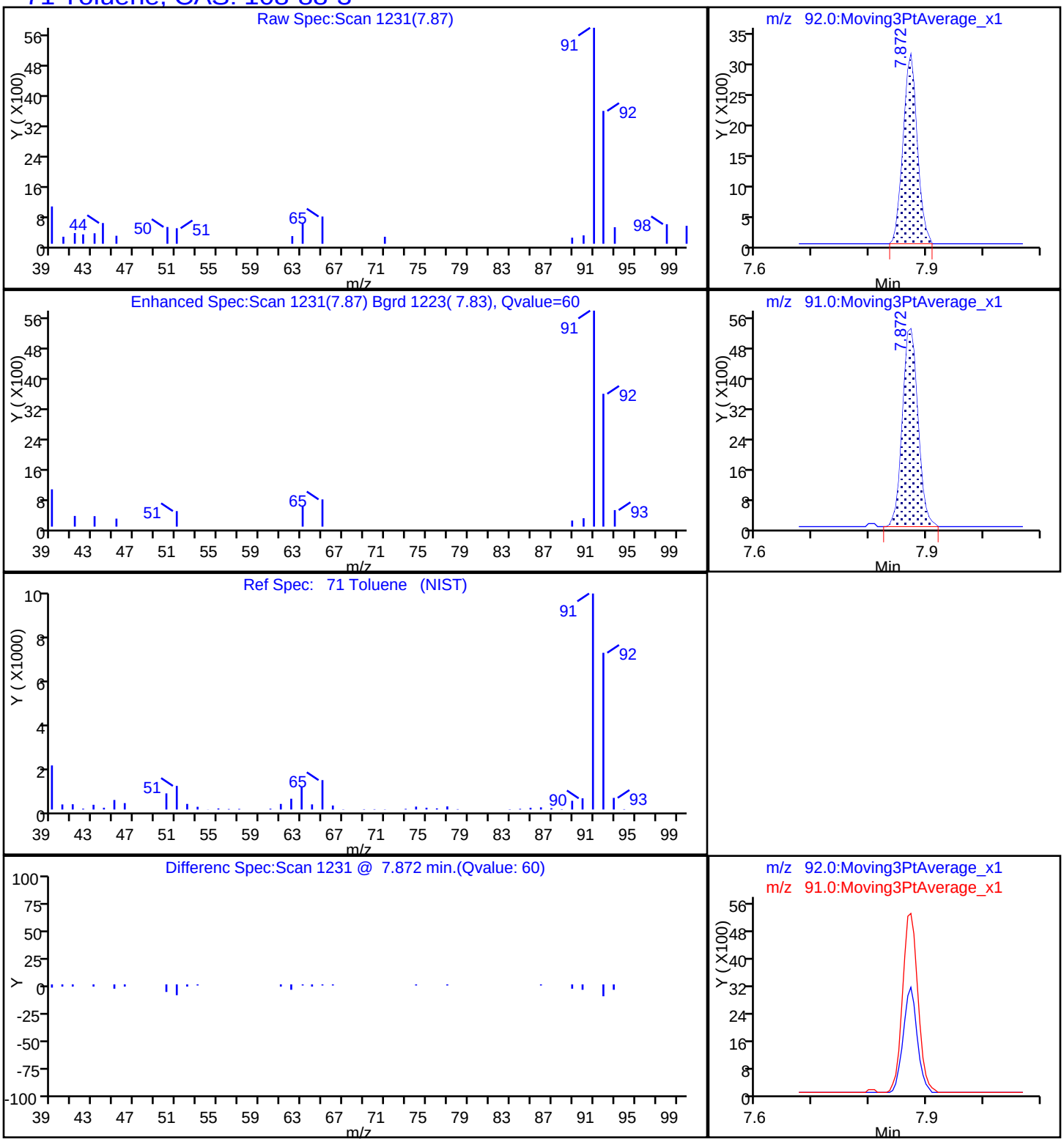


Report Date: 27-Oct-2017 17:26:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-1.d				
Injection Date:	27-Oct-2017 13:23:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-1	Lab Sample ID:	500-136132-1		
Client ID:	OMW1D-GW-102317				
Operator ID:	JH	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

71 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: EIP-DUP-102317 | Lab Sample ID: 500-136132-2
Matrix: Water | Lab File ID: 500-136132-g-2.d
Analysis Method: 8260B | Date Collected: 10/23/2017 12:30
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 13:48
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00035
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00041
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00039
563-58-6	1,1-Dichloropropene	ND		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	ND		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	ND		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	ND		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	ND		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020
106-93-4	1,2-Dibromoethane	ND		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	ND		0.0010	0.00033
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00039
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	ND		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	ND		0.0010	0.00040
142-28-9	1,3-Dichloropropane	ND		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00036
123-91-1	1,4-Dioxane	ND		0.10	0.041
594-20-7	2,2-Dichloropropane	ND		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	ND		0.0010	0.00031
591-78-6	2-Hexanone	ND		0.0050	0.0016
106-43-4	4-Chlorotoluene	ND		0.0010	0.00035
67-64-1	Acetone	0.0054	cn	0.0050	0.0017
107-02-8	Acrolein	ND		0.10	0.023
107-13-1	Acrylonitrile	ND		0.020	0.0045
71-43-2	Benzene	ND		0.00050	0.00015
108-86-1	Bromobenzene	ND		0.0010	0.00036
74-97-5	Bromochloromethane	ND		0.0010	0.00043
75-27-4	Bromodichloromethane	0.00081	J	0.0010	0.00037
75-25-2	Bromoform	ND		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: EIP-DUP-102317 | Lab Sample ID: 500-136132-2
Matrix: Water | Lab File ID: 500-136132-g-2.d
Analysis Method: 8260B | Date Collected: 10/23/2017 12:30
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 13:48
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	ND	*	0.0020	0.00080
75-15-0	Carbon disulfide	ND		0.0020	0.00045
56-23-5	Carbon tetrachloride	ND		0.0010	0.00038
108-90-7	Chlorobenzene	ND		0.0010	0.00039
75-00-3	Chloroethane	ND		0.0010	0.00051
67-66-3	Chloroform	0.0049		0.0020	0.00037
74-87-3	Chloromethane	ND		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	ND		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00042
110-82-7	Cyclohexane	ND		0.0010	0.00049
124-48-1	Dibromochloromethane	ND		0.0010	0.00049
74-95-3	Dibromomethane	ND		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	ND		0.0020	0.00067
100-41-4	Ethylbenzene	ND		0.00050	0.00018
74-88-4	Iodomethane	ND		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	ND		0.0010	0.00039
79-20-9	Methyl acetate	ND		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	ND		0.0050	0.0021
108-10-1	methyl isobutyl ketone	ND		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	ND		0.0010	0.00039
108-87-2	Methylcyclohexane	ND		0.0010	0.00032
75-09-2	Methylene Chloride	0.0055	cn	0.0050	0.0016
91-20-3	Naphthalene	ND		0.0010	0.00034
104-51-8	n-Butylbenzene	ND		0.0010	0.00039
103-65-1	N-Propylbenzene	ND		0.0010	0.00041
99-87-6	p-Isopropyltoluene	ND		0.0010	0.00036
135-98-8	sec-Butylbenzene	ND		0.0010	0.00040
100-42-5	Styrene	ND		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	ND		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	ND		0.0010	0.00040
127-18-4	Tetrachloroethene	ND		0.0010	0.00037
108-88-3	Toluene	0.00050		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	ND		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-136132-1
SDG No.:
Client Sample ID: EIP-DUP-102317
Lab Sample ID: 500-136132-2
Matrix: Water
Lab File ID: 500-136132-g-2.d
Analysis Method: 8260B
Date Collected: 10/23/2017 12:30
Sample wt/vol: 5(mL)
Date Analyzed: 10/27/2017 13:48
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 407232
Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012
79-01-6	Trichloroethene	ND		0.00050	0.00016
75-69-4	Trichlorofluoromethane	ND		0.0010	0.00043
108-05-4	Vinyl acetate	ND		0.0020	0.00091
75-01-4	Vinyl chloride	ND		0.00050	0.00020
1330-20-7	Xylenes, Total	ND		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		75-126
460-00-4	4-Bromofluorobenzene (Surr)	94		72-124
1868-53-7	Dibromofluoromethane	87		75-120
2037-26-5	Toluene-d8 (Surr)	90		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-2.d
Lims ID: 500-136132-G-2
Client ID: EIP-DUP-102317
Sample Type: Client
Inject. Date: 27-Oct-2017 13:48:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136132-g-2
Misc. Info.: 500-0048650-015
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 17:27:13 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: huntjj Date: 27-Oct-2017 17:27:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
14 Acetone	43	3.266	3.255	0.011	61	3658	5.39	
21 Methylene Chloride	84	3.683	3.683	0.000	91	22566	5.49	
* 22 TBA-d9 (IS)	65	3.742	3.737	0.005	0	124288	1000.0	
41 Chloroform	83	5.299	5.294	0.005	94	35641	4.95	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	171218	43.6	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	161053	42.0	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	741728	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	14878	1000.0	
65 Dichlorobromomethane	83	7.032	7.032	0.000	35	3491	0.8089	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	718952	45.2	
71 Toluene	92	7.872	7.872	0.000	43	5351	0.5023	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	580500	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	92	268246	47.2	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	94	287682	50.0	

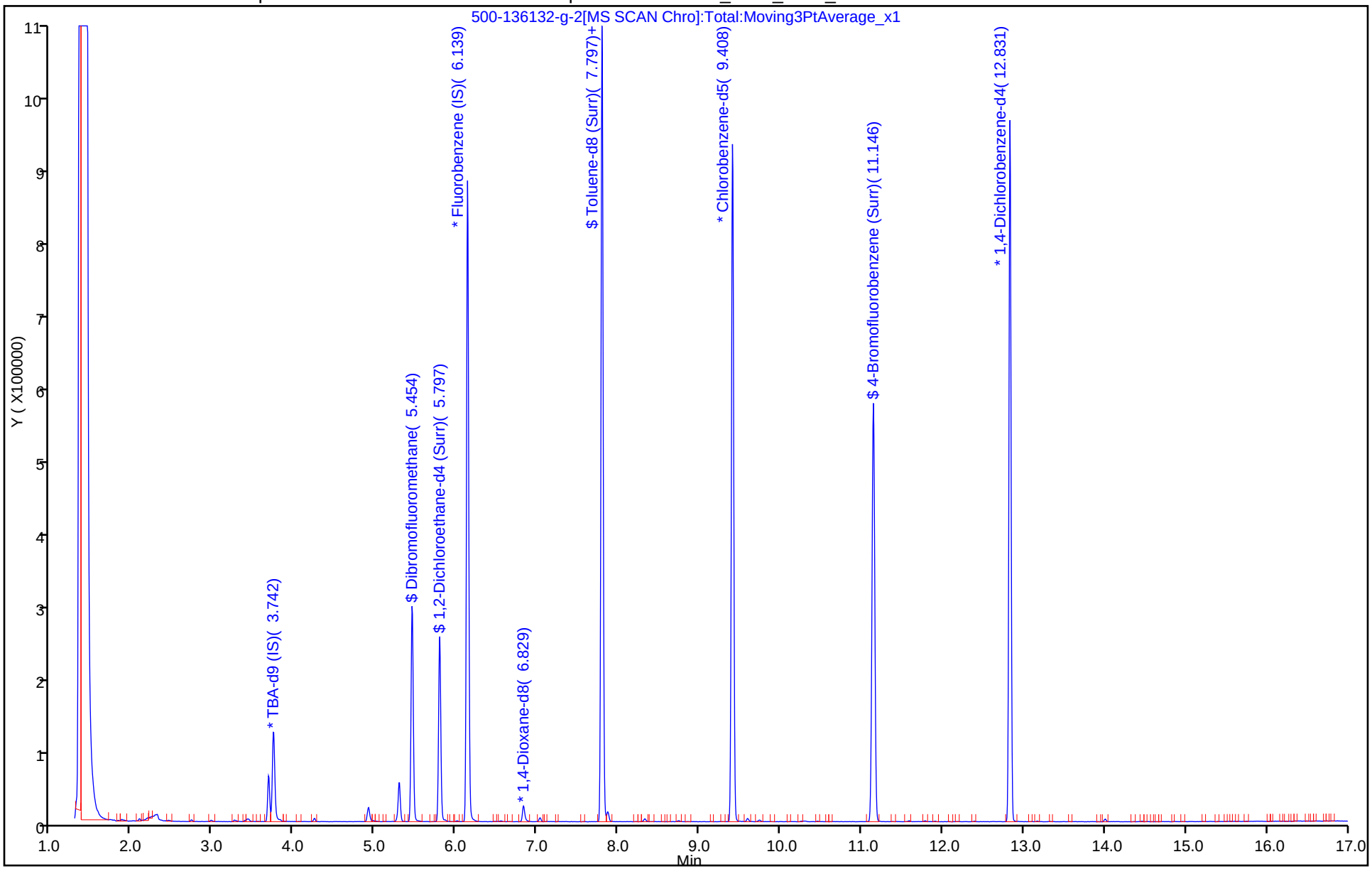
Reagents:

8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Oct-2017 17:27:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-2.d				
Injection Date:	27-Oct-2017 13:48:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136132-G-2	Lab Sample ID:	500-136132-2	Worklist Smp#:	15
Client ID:	EIP-DUP-102317				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-2.d				
Lims ID:	500-136132-G-2				
Client ID:	EIP-DUP-102317				
Sample Type:	Client				
Inject. Date:	27-Oct-2017 13:48:30	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-g-2				
Misc. Info.:	500-0048650-015				
Operator ID:	JH	Instrument ID:	CMS18		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Method Label:	TAL Chicago VOA Report		
Last Update:	27-Oct-2017 17:27:13	Calib Date:	05-Jul-2017 17:12:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d		

Column 1 :		Det: MS SCAN	
Process Host:	XAWRK011		

First Level Reviewer: huntjj Date: 27-Oct-2017 17:27:17

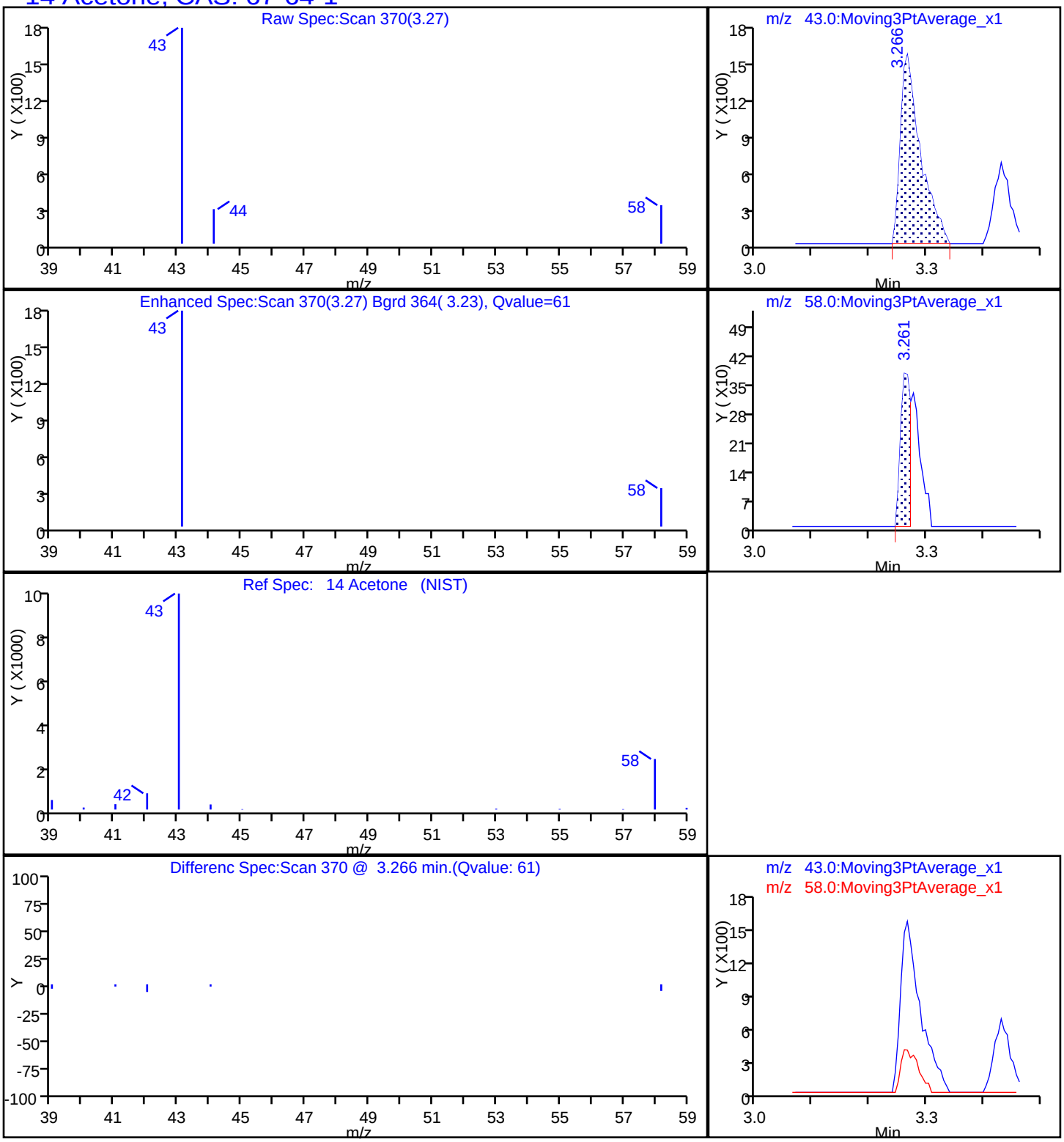
Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	43.6	87.23
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	42.0	83.94
$ 70 Toluene-d8 (Surr)	50.0	45.2	90.43
$ 92 4-Bromofluorobenzene (Surr)	50.0	47.2	94.50

Report Date: 27-Oct-2017 17:27:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-2.d				
Injection Date:	27-Oct-2017 13:48:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-2	Lab Sample ID:	500-136132-2		
Client ID:	EIP-DUP-102317				
Operator ID:	JH	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

14 Acetone, CAS: 67-64-1

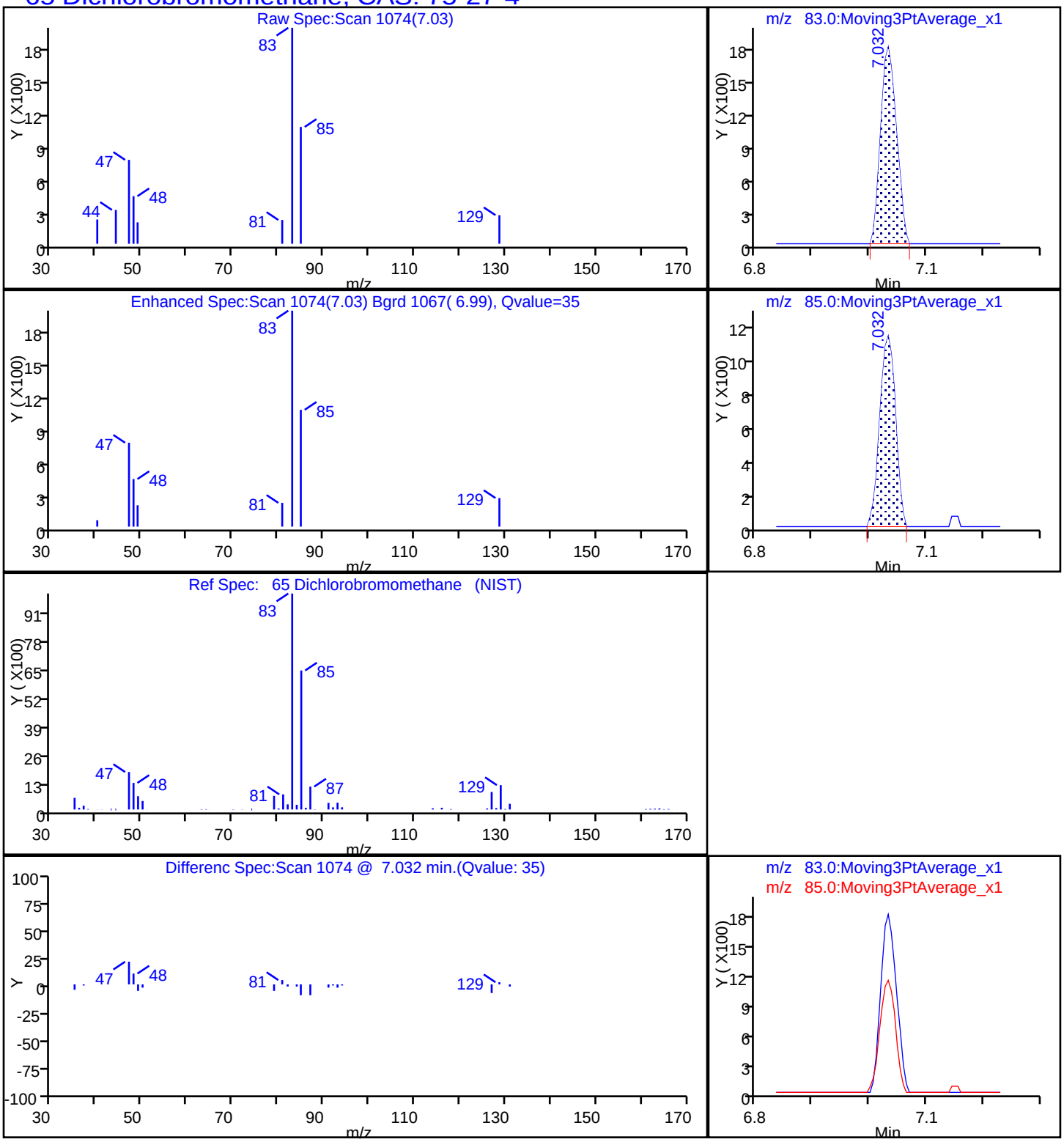


Report Date: 27-Oct-2017 17:27:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-2.d				
Injection Date:	27-Oct-2017 13:48:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-2	Lab Sample ID:	500-136132-2		
Client ID:	EIP-DUP-102317				
Operator ID:	JH	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

65 Dichlorobromomethane, CAS: 75-27-4

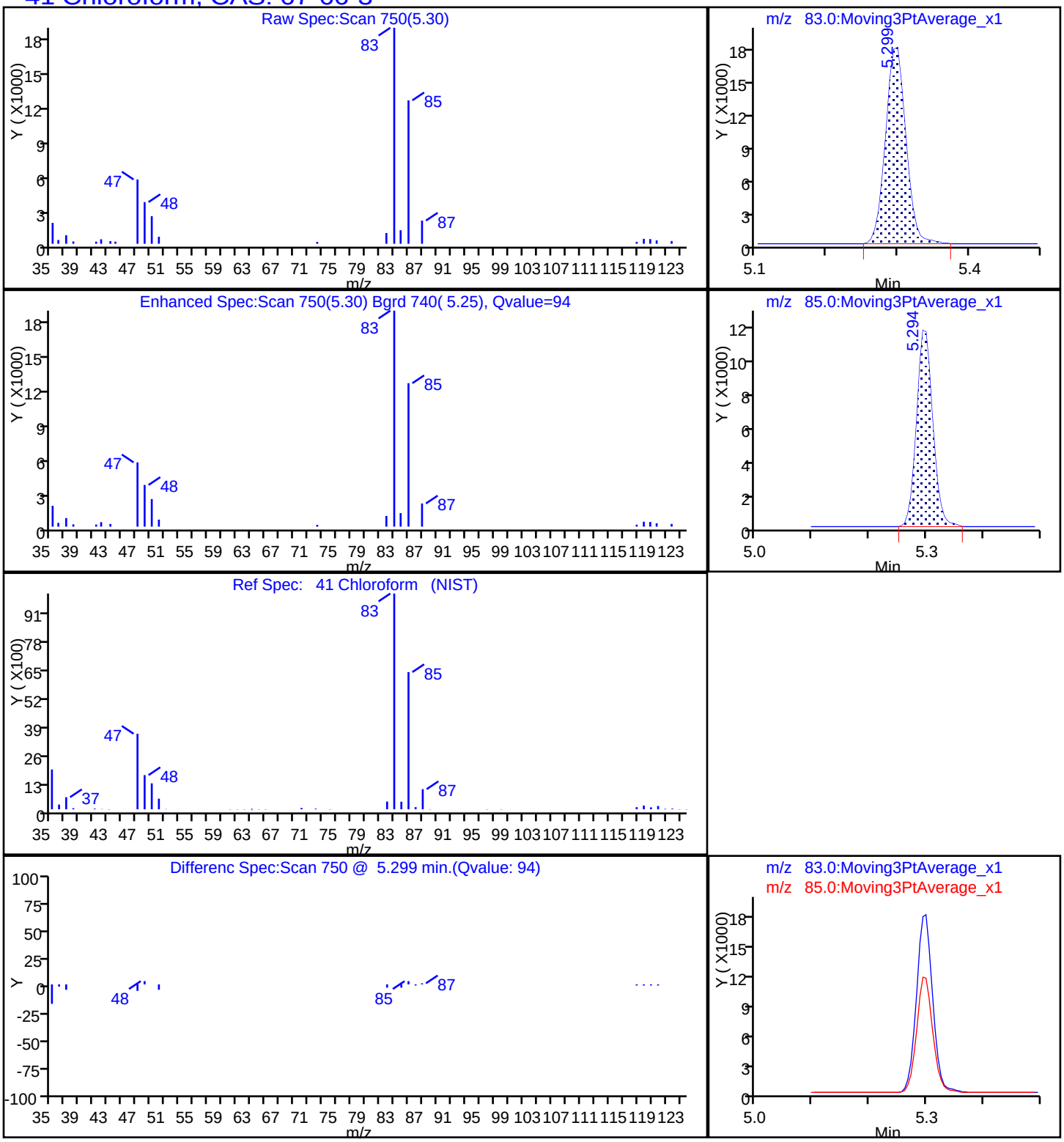


Report Date: 27-Oct-2017 17:27:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-2.d				
Injection Date:	27-Oct-2017 13:48:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-2	Lab Sample ID:	500-136132-2		
Client ID:	EIP-DUP-102317				
Operator ID:	JH	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

41 Chloroform, CAS: 67-66-3

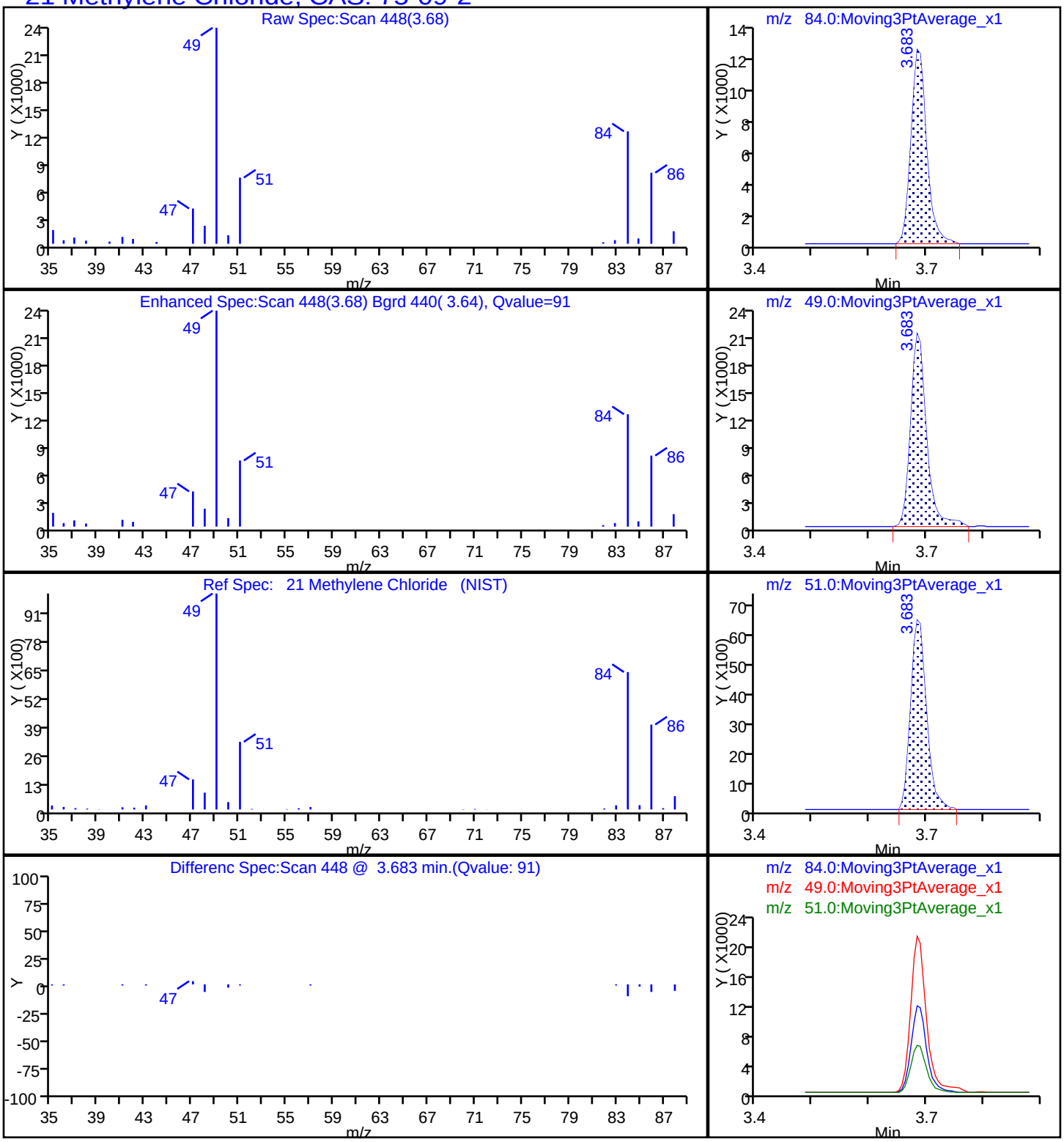


Report Date: 27-Oct-2017 17:27:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-2.d				
Injection Date:	27-Oct-2017 13:48:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-2	Lab Sample ID:	500-136132-2		
Client ID:	EIP-DUP-102317				
Operator ID:	JH	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

21 Methylene Chloride, CAS: 75-09-2

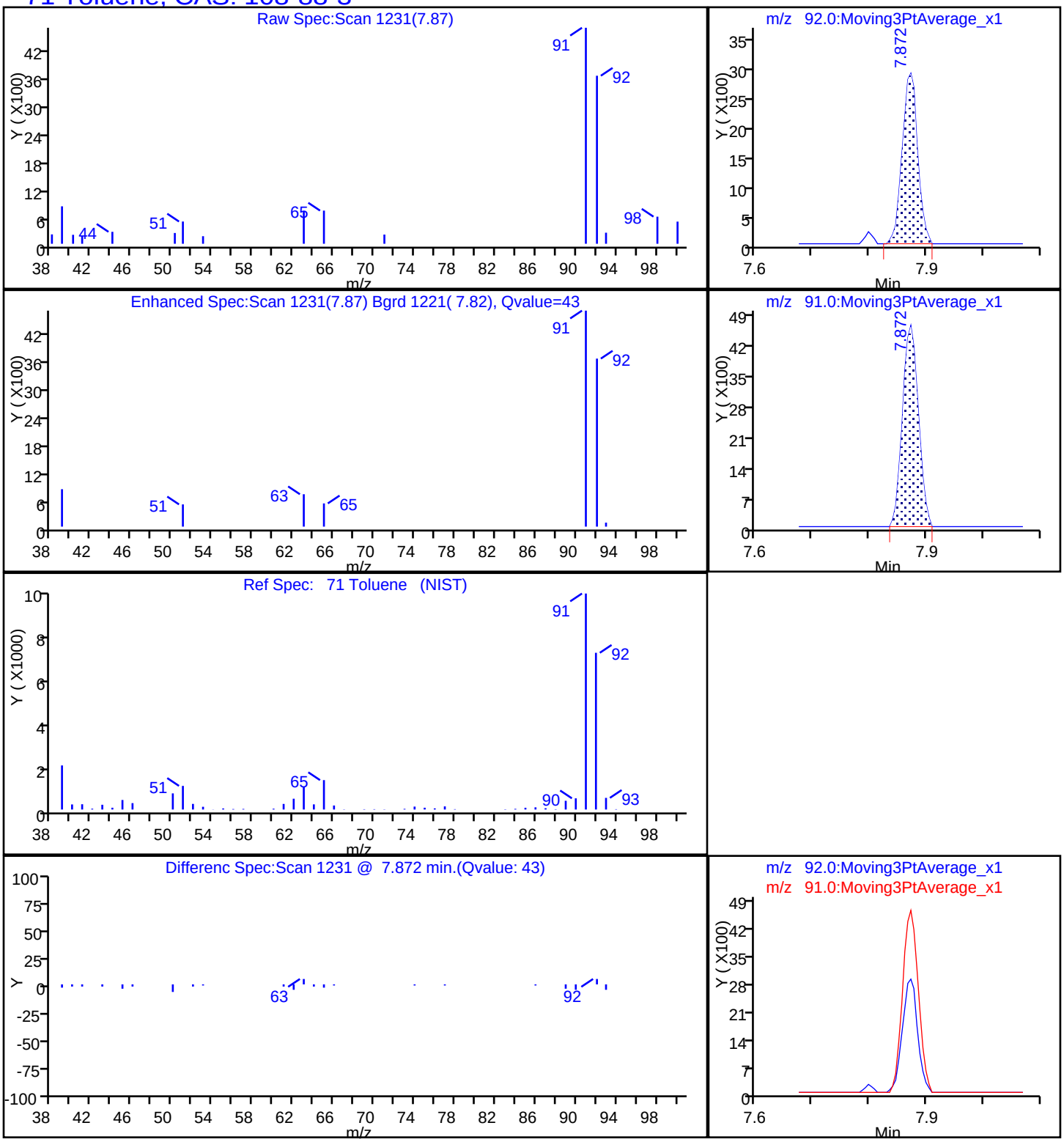


Report Date: 27-Oct-2017 17:27:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-g-2.d				
Injection Date:	27-Oct-2017 13:48:30	Instrument ID:	CMS18		
Lims ID:	500-136132-G-2	Lab Sample ID:	500-136132-2		
Client ID:	EIP-DUP-102317				
Operator ID:	JH	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

71 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: EIP-TB08-102317 | Lab Sample ID: 500-136132-3
Matrix: Water | Lab File ID: 500-136132-a-3.d
Analysis Method: 8260B | Date Collected: 10/23/2017 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 14:13
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00035
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00041
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00039
563-58-6	1,1-Dichloropropene	ND		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	ND		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	ND		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	ND		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	ND		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020
106-93-4	1,2-Dibromoethane	ND		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	ND		0.0010	0.00033
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00039
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	ND		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	ND		0.0010	0.00040
142-28-9	1,3-Dichloropropane	ND		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00036
123-91-1	1,4-Dioxane	ND		0.10	0.041
594-20-7	2,2-Dichloropropane	ND		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	ND		0.0010	0.00031
591-78-6	2-Hexanone	ND		0.0050	0.0016
106-43-4	4-Chlorotoluene	ND		0.0010	0.00035
67-64-1	Acetone	ND		0.0050	0.0017
107-02-8	Acrolein	ND		0.10	0.023
107-13-1	Acrylonitrile	ND		0.020	0.0045
71-43-2	Benzene	ND		0.00050	0.00015
108-86-1	Bromobenzene	ND		0.0010	0.00036
74-97-5	Bromochloromethane	ND		0.0010	0.00043
75-27-4	Bromodichloromethane	ND		0.0010	0.00037
75-25-2	Bromoform	ND		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: EIP-TB08-102317 | Lab Sample ID: 500-136132-3
Matrix: Water | Lab File ID: 500-136132-a-3.d
Analysis Method: 8260B | Date Collected: 10/23/2017 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 14:13
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	ND	*	0.0020	0.00080
75-15-0	Carbon disulfide	ND		0.0020	0.00045
56-23-5	Carbon tetrachloride	ND		0.0010	0.00038
108-90-7	Chlorobenzene	ND		0.0010	0.00039
75-00-3	Chloroethane	ND		0.0010	0.00051
67-66-3	Chloroform	ND		0.0020	0.00037
74-87-3	Chloromethane	ND		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	ND		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00042
110-82-7	Cyclohexane	ND		0.0010	0.00049
124-48-1	Dibromochloromethane	ND		0.0010	0.00049
74-95-3	Dibromomethane	ND		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	ND		0.0020	0.00067
100-41-4	Ethylbenzene	ND		0.00050	0.00018
74-88-4	Iodomethane	ND		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	ND		0.0010	0.00039
79-20-9	Methyl acetate	ND		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	ND		0.0050	0.0021
108-10-1	methyl isobutyl ketone	ND		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	ND		0.0010	0.00039
108-87-2	Methylcyclohexane	ND		0.0010	0.00032
75-09-2	Methylene Chloride	0.0056	cn	0.0050	0.0016
91-20-3	Naphthalene	ND		0.0010	0.00034
104-51-8	n-Butylbenzene	ND		0.0010	0.00039
103-65-1	N-Propylbenzene	ND		0.0010	0.00041
99-87-6	p-Isopropyltoluene	ND		0.0010	0.00036
135-98-8	sec-Butylbenzene	ND		0.0010	0.00040
100-42-5	Styrene	ND		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	ND		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	ND		0.0010	0.00040
127-18-4	Tetrachloroethene	ND		0.0010	0.00037
108-88-3	Toluene	ND		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	ND		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1

SDG No.:

Client Sample ID: EIP-TB08-102317 | Lab Sample ID: 500-136132-3

Matrix: Water | Lab File ID: 500-136132-a-3.d

Analysis Method: 8260B | Date Collected: 10/23/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 14:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012
79-01-6	Trichloroethene	ND		0.00050	0.00016
75-69-4	Trichlorofluoromethane	ND		0.0010	0.00043
108-05-4	Vinyl acetate	ND		0.0020	0.00091
75-01-4	Vinyl chloride	ND		0.00050	0.00020
1330-20-7	Xylenes, Total	ND		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		75-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-124
1868-53-7	Dibromofluoromethane	87		75-120
2037-26-5	Toluene-d8 (Surr)	90		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-a-3.d				
Lims ID:	500-136132-A-3				
Client ID:	EIP-TB08-102317				
Sample Type:	Client				
Inject. Date:	27-Oct-2017 14:13:30	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-a-3				
Misc. Info.:	500-0048650-016				
Operator ID:	JH	Instrument ID:	CMS18		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Method Label:	TAL Chicago VOA Report		
Last Update:	27-Oct-2017 17:28:15	Calib Date:	05-Jul-2017 17:12:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d		

Column 1 :		Det: MS SCAN
Process Host:	XAWRK011	

First Level Reviewer: huntjj Date: 27-Oct-2017 17:28:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
21 Methylene Chloride	84	3.683	3.683	0.000	94	23141	5.55	
* 22 TBA-d9 (IS)	65	3.737	3.737	0.000	0	122341	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	172490	43.3	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	164801	42.3	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	752685	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	14521	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	93	721986	45.1	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	584014	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	265889	47.3	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	95	284551	50.0	

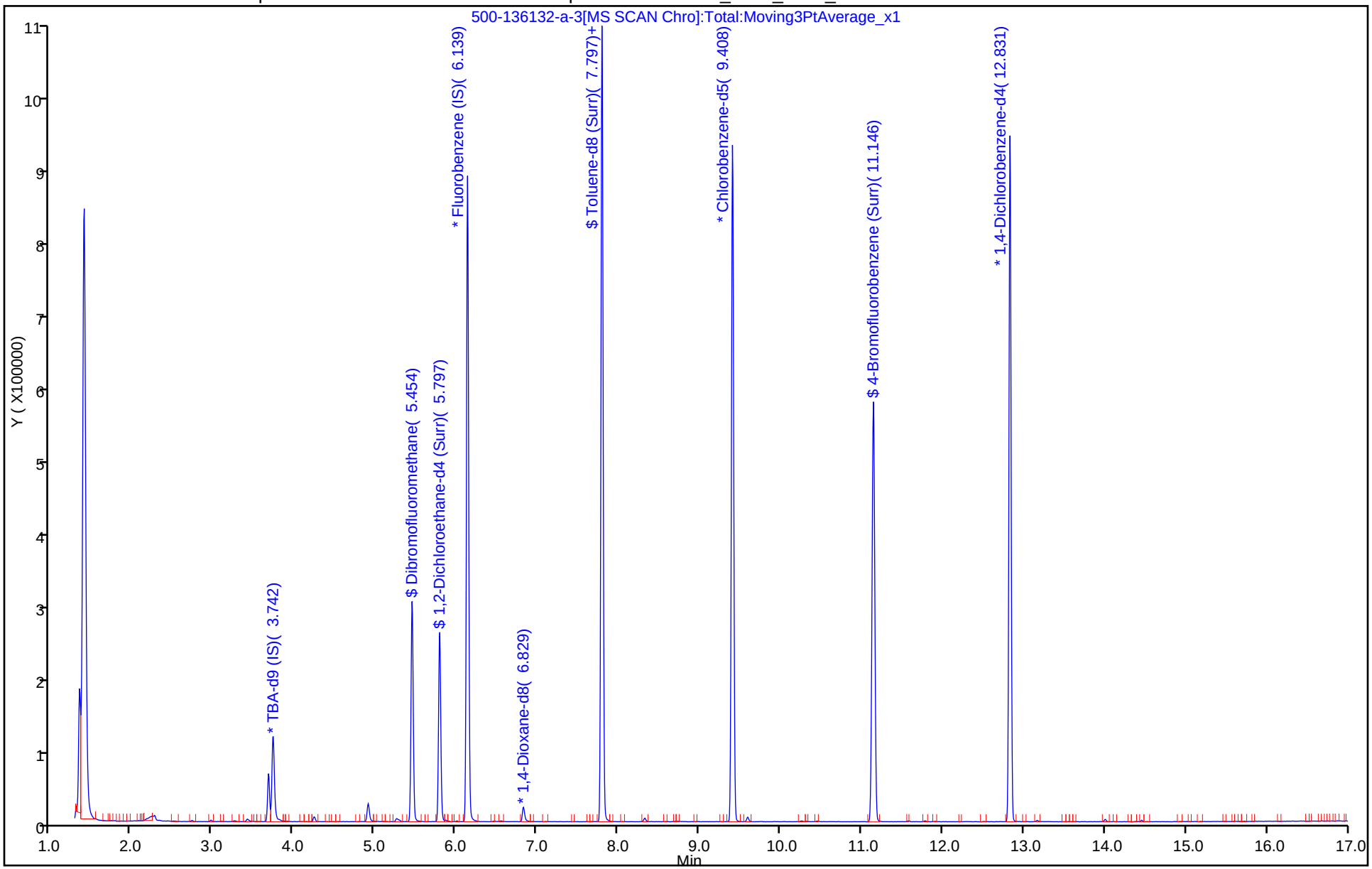
Reagents:

8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Oct-2017 17:28:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-a-3.d				
Injection Date:	27-Oct-2017 14:13:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136132-A-3	Lab Sample ID:	500-136132-3	Worklist Smp#:	16
Client ID:	EIP-TB08-102317				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-a-3.d				
Lims ID:	500-136132-A-3				
Client ID:	EIP-TB08-102317				
Sample Type:	Client				
Inject. Date:	27-Oct-2017 14:13:30	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-a-3				
Misc. Info.:	500-0048650-016				
Operator ID:	JH	Instrument ID:	CMS18		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Method Label:	TAL Chicago VOA Report		
Last Update:	27-Oct-2017 17:28:15	Calib Date:	05-Jul-2017 17:12:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d		

Column 1 :		Det: MS SCAN	
Process Host:	XAWRK011		

First Level Reviewer: huntjj Date: 27-Oct-2017 17:28:15

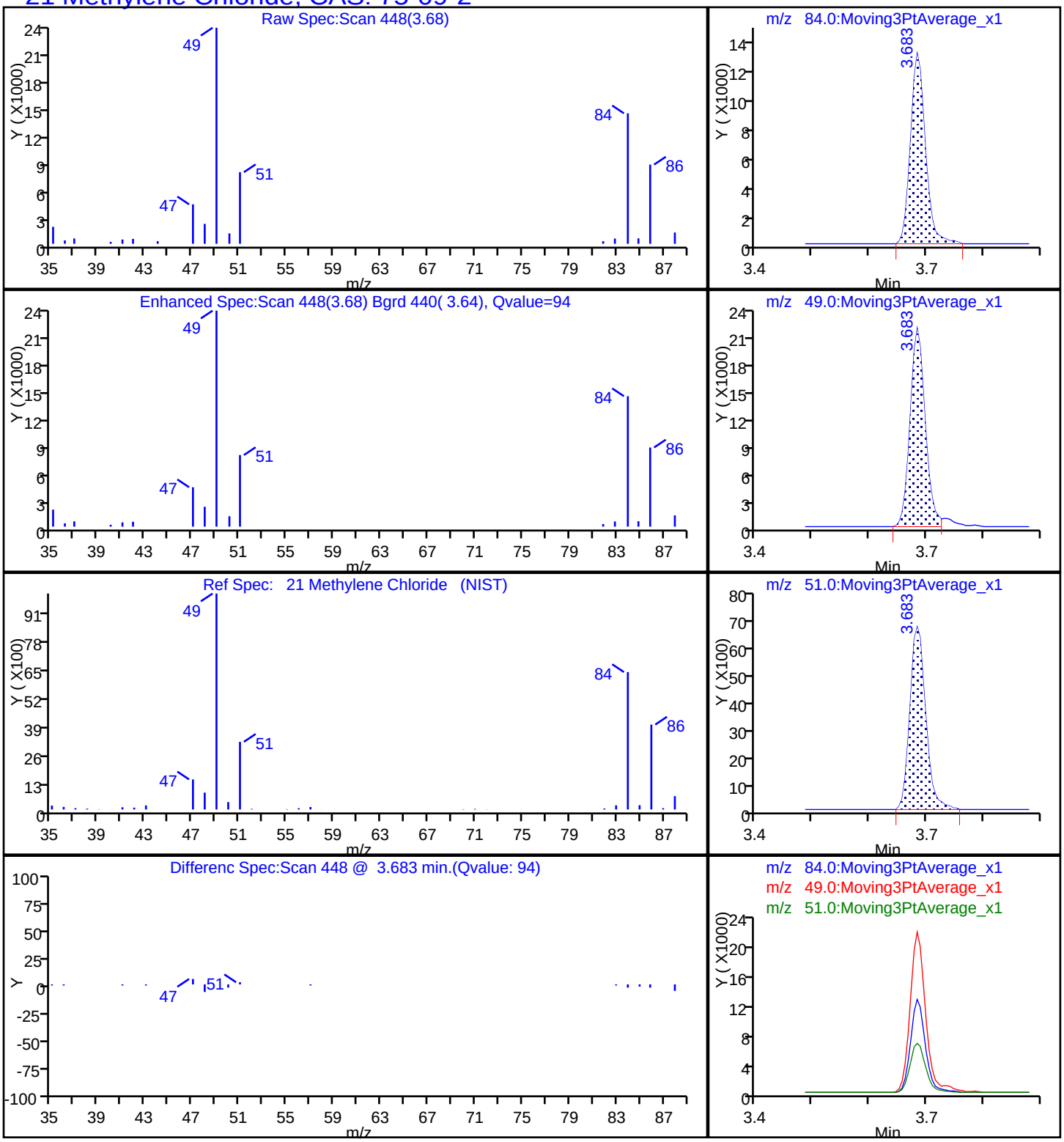
Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	43.3	86.60
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	42.3	84.64
$ 70 Toluene-d8 (Surr)	50.0	45.1	90.26
$ 92 4-Bromofluorobenzene (Surr)	50.0	47.3	94.70

Report Date: 27-Oct-2017 17:28:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-a-3.d				
Injection Date:	27-Oct-2017 14:13:30	Instrument ID:	CMS18		
Lims ID:	500-136132-A-3	Lab Sample ID:	500-136132-3		
Client ID:	EIP-TB08-102317				
Operator ID:	JH	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

21 Methylene Chloride, CAS: 75-09-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: EIP-EB-102317 | Lab Sample ID: 500-136132-4
Matrix: Water | Lab File ID: 500-136132-a-4.d
Analysis Method: 8260B | Date Collected: 10/23/2017 13:50
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 14:38
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00035
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00041
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00039
563-58-6	1,1-Dichloropropene	ND		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	ND		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	ND		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	ND		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	ND		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020
106-93-4	1,2-Dibromoethane	ND		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	ND		0.0010	0.00033
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00039
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	ND		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	ND		0.0010	0.00040
142-28-9	1,3-Dichloropropane	ND		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00036
123-91-1	1,4-Dioxane	ND		0.10	0.041
594-20-7	2,2-Dichloropropane	ND		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	ND		0.0010	0.00031
591-78-6	2-Hexanone	ND		0.0050	0.0016
106-43-4	4-Chlorotoluene	ND		0.0010	0.00035
67-64-1	Acetone	ND		0.0050	0.0017
107-02-8	Acrolein	ND		0.10	0.023
107-13-1	Acrylonitrile	ND		0.020	0.0045
71-43-2	Benzene	ND		0.00050	0.00015
108-86-1	Bromobenzene	ND		0.0010	0.00036
74-97-5	Bromochloromethane	ND		0.0010	0.00043
75-27-4	Bromodichloromethane	ND		0.0010	0.00037
75-25-2	Bromoform	ND		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: EIP-EB-102317 | Lab Sample ID: 500-136132-4
Matrix: Water | Lab File ID: 500-136132-a-4.d
Analysis Method: 8260B | Date Collected: 10/23/2017 13:50
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 14:38
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	ND	*	0.0020	0.00080
75-15-0	Carbon disulfide	ND		0.0020	0.00045
56-23-5	Carbon tetrachloride	ND		0.0010	0.00038
108-90-7	Chlorobenzene	ND		0.0010	0.00039
75-00-3	Chloroethane	ND		0.0010	0.00051
67-66-3	Chloroform	ND		0.0020	0.00037
74-87-3	Chloromethane	ND		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	ND		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00042
110-82-7	Cyclohexane	ND		0.0010	0.00049
124-48-1	Dibromochloromethane	ND		0.0010	0.00049
74-95-3	Dibromomethane	ND		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	ND		0.0020	0.00067
100-41-4	Ethylbenzene	ND		0.00050	0.00018
74-88-4	Iodomethane	ND		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	ND		0.0010	0.00039
79-20-9	Methyl acetate	ND		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	ND		0.0050	0.0021
108-10-1	methyl isobutyl ketone	ND		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	ND		0.0010	0.00039
108-87-2	Methylcyclohexane	ND		0.0010	0.00032
75-09-2	Methylene Chloride	0.0057	cn	0.0050	0.0016
91-20-3	Naphthalene	ND		0.0010	0.00034
104-51-8	n-Butylbenzene	ND		0.0010	0.00039
103-65-1	N-Propylbenzene	ND		0.0010	0.00041
99-87-6	p-Isopropyltoluene	ND		0.0010	0.00036
135-98-8	sec-Butylbenzene	ND		0.0010	0.00040
100-42-5	Styrene	ND		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	ND		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	ND		0.0010	0.00040
127-18-4	Tetrachloroethene	ND		0.0010	0.00037
108-88-3	Toluene	ND		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	ND		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1

SDG No.:

Client Sample ID: EIP-EB-102317 | Lab Sample ID: 500-136132-4

Matrix: Water | Lab File ID: 500-136132-a-4.d

Analysis Method: 8260B | Date Collected: 10/23/2017 13:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 14:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012
79-01-6	Trichloroethene	ND		0.00050	0.00016
75-69-4	Trichlorofluoromethane	ND		0.0010	0.00043
108-05-4	Vinyl acetate	ND		0.0020	0.00091
75-01-4	Vinyl chloride	ND		0.00050	0.00020
1330-20-7	Xylenes, Total	ND		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		75-126
460-00-4	4-Bromofluorobenzene (Surr)	94		72-124
1868-53-7	Dibromofluoromethane	86		75-120
2037-26-5	Toluene-d8 (Surr)	91		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-a-4.d				
Lims ID:	500-136132-A-4				
Client ID:	EIP-EB-102317				
Sample Type:	Client				
Inject. Date:	27-Oct-2017 14:38:30	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-a-4				
Misc. Info.:	500-0048650-017				
Operator ID:	JH	Instrument ID:	CMS18		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Method Label:	TAL Chicago VOA Report		
Last Update:	27-Oct-2017 17:29:08	Calib Date:	05-Jul-2017 17:12:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d		

Column 1 :			Det: MS SCAN
Process Host:	XAWRK011		

First Level Reviewer: huntjj Date: 27-Oct-2017 17:29:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
21 Methylene Chloride	84	3.684	3.683	0.001	89	23340	5.72	
* 22 TBA-d9 (IS)	65	3.742	3.737	0.005	0	126431	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	167949	43.0	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	163988	43.0	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	737373	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	16187	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.798	7.797	0.001	94	710960	45.4	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	572250	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	259230	46.9	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.831	0.001	94	280186	50.0	

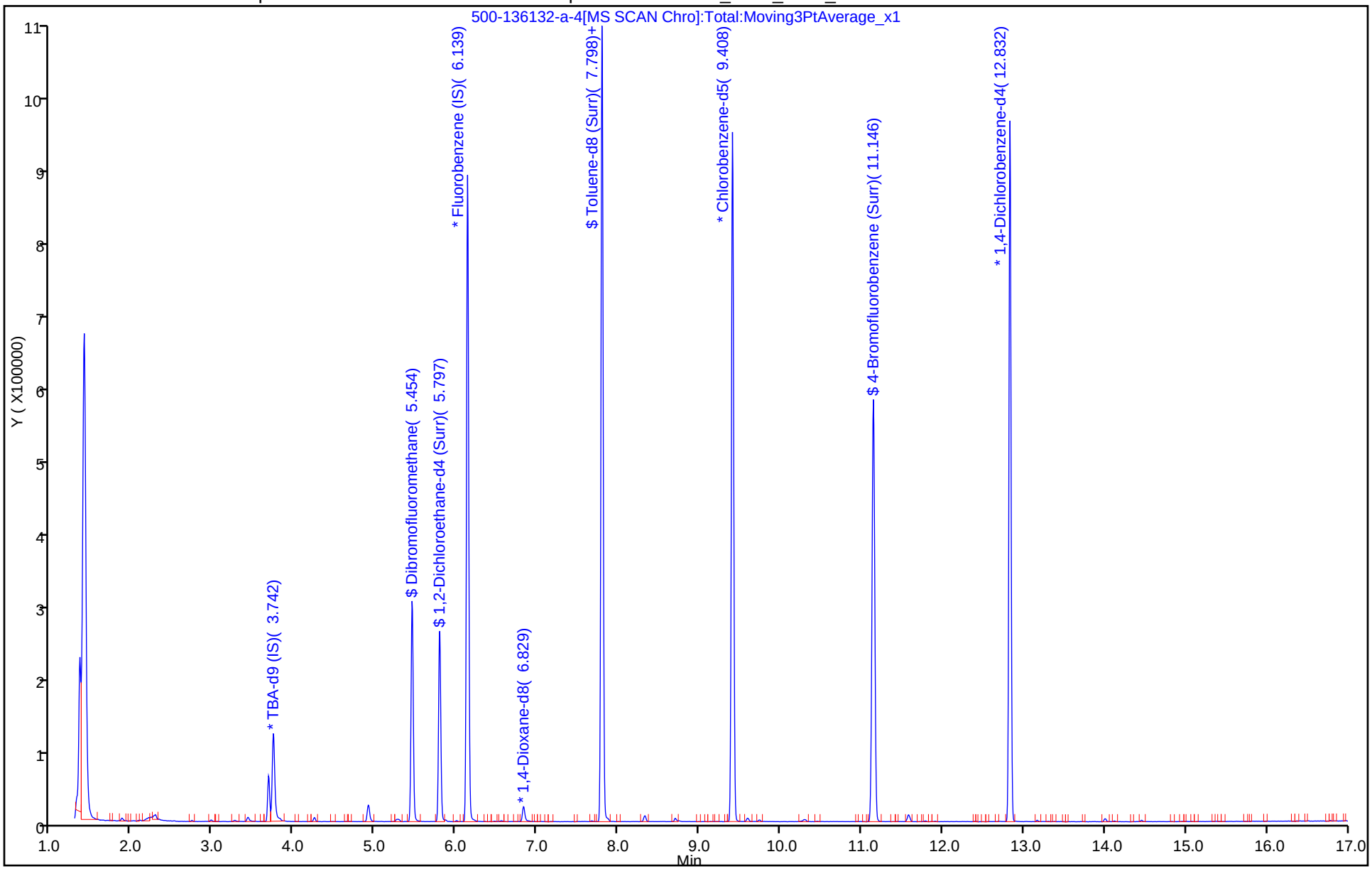
Reagents:

8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Oct-2017 17:29:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-a-4.d				
Injection Date:	27-Oct-2017 14:38:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136132-A-4	Lab Sample ID:	500-136132-4	Worklist Smp#:	17
Client ID:	EIP-EB-102317				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-a-4.d				
Lims ID:	500-136132-A-4				
Client ID:	EIP-EB-102317				
Sample Type:	Client				
Inject. Date:	27-Oct-2017 14:38:30	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-a-4				
Misc. Info.:	500-0048650-017				
Operator ID:	JH	Instrument ID:	CMS18		
Raw Data:	Smoothed				

Method:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m		
Limit Group:	MSVOA_8260_ICAL_WATER		
Method Label:	TAL Chicago VOA Report		
Last Update:	27-Oct-2017 17:29:08	Calib Date:	05-Jul-2017 17:12:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d		

Column 1 :		Det: MS SCAN	
Process Host:	XAWRK011		

First Level Reviewer: huntjj Date: 27-Oct-2017 17:29:08

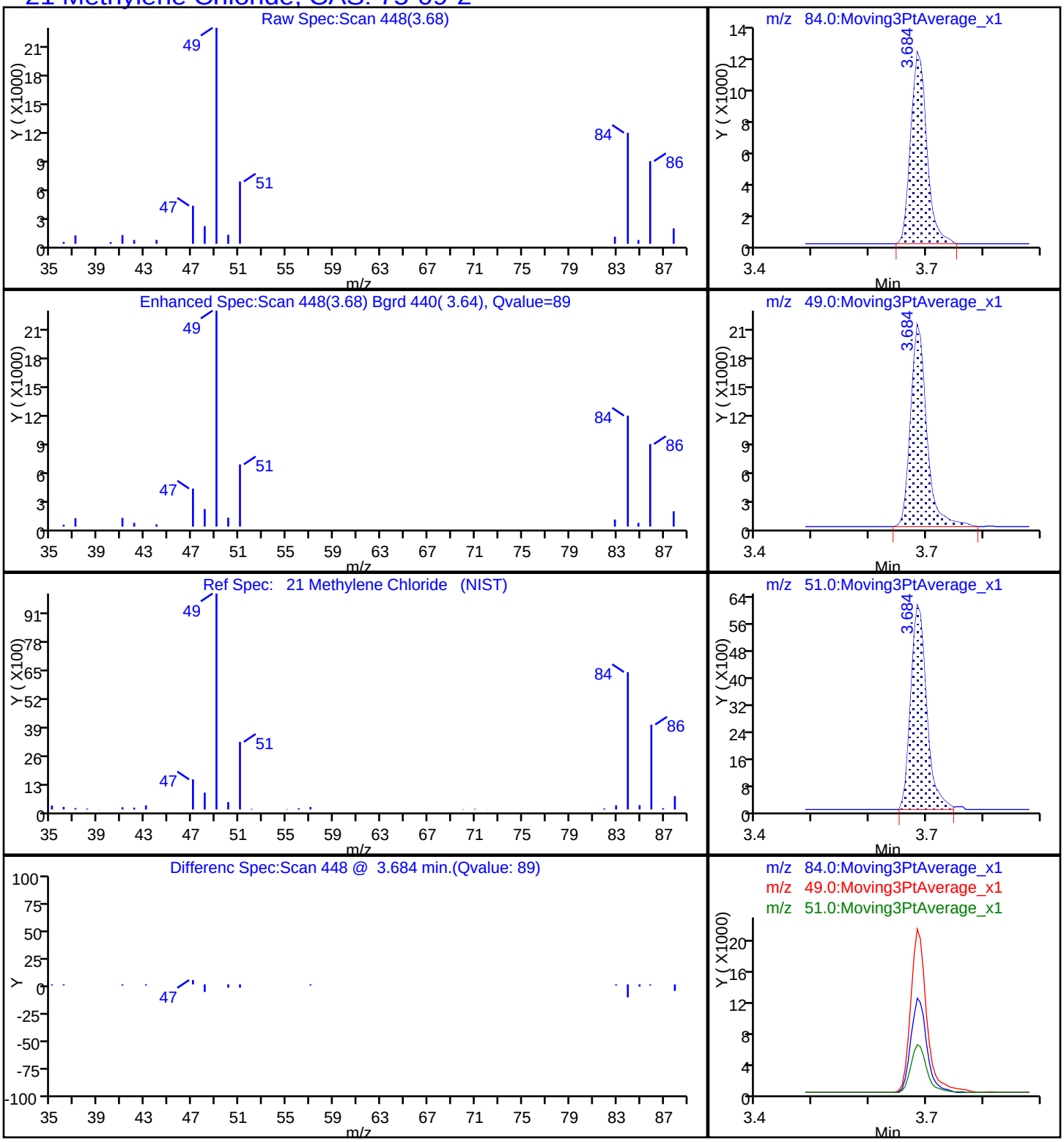
Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	43.0	86.07
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	43.0	85.98
$ 70 Toluene-d8 (Surr)	50.0	45.4	90.71
$ 92 4-Bromofluorobenzene (Surr)	50.0	46.9	93.76

Report Date: 27-Oct-2017 17:29:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\500-136132-a-4.d				
Injection Date:	27-Oct-2017 14:38:30	Instrument ID:	CMS18		
Lims ID:	500-136132-A-4	Lab Sample ID:	500-136132-4		
Client ID:	EIP-EB-102317				
Operator ID:	JH	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

21 Methylene Chloride, CAS: 75-09-2



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391473

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2017 18:41 Calibration End Date: 06/30/2017 22:00 Calibration ID: 24866

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-391473/14	18J0630C.d
Level 2	STD04AP 500-391473/15	18J0630D.d
Level 3	STD05AP 500-391473/16	18J0630E.d
Level 4	STD06AP 500-391473/17	18J0630F.d
Level 5	STD07AP 500-391473/18	18J0630G.d
Level 6	STD08AP 500-391473/19	18J0630H.d
Level 7	STD09AP 500-391473/20	18J0630I.d
Level 8	STD10AP 500-391473/21	18J0630J.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	0.2754 0.1485	0.2275 0.1758	0.2028 0.1823	0.1576	0.1530	Lin1	3.7331	0.1695			0.0010				0.9920		0.9900
Isopropyl alcohol	1.0864 0.8907	1.0927 0.9542	0.8926 1.0027	0.9063	0.8390	Ave		0.9581			0.0010	9.8		15.0			
Acetonitrile	0.0284 0.0213	0.0211 0.0237	0.0204 0.0241	0.0228	0.0219	Ave		0.0230			0.0010	11.1		15.0			
Isopropyl ether	1.2460 1.1490	1.0655 1.2149	1.0884 1.2331	1.2287	1.1701	Ave		1.1745			0.0100	5.9		15.0			
2-Chloro-1,3-butadiene	0.6911 0.6346	0.6311 0.6740	0.5524 0.6920	0.6617	0.5879	Ave		0.6406			0.0100	7.8		15.0			
Tert-butyl ethyl ether	0.9533 0.8862	0.7548 0.9461	0.8062 0.9520	0.9665	0.8965	Ave		0.8952			0.0010	8.7		15.0			
Propionitrile	0.0253 0.0209	0.0182 0.0227	0.0208 0.0229	0.0232	0.0214	Ave		0.0219			0.0010	9.6		15.0			
Ethyl acetate	0.1511 0.1394	0.1386 0.1473	0.1205 0.1480	0.1442	0.1280	Ave		0.1396			0.0100	7.6		15.0			
Methacrylonitrile	0.1237 0.1085	0.1015 0.1161	0.0951 0.1172	0.1153	0.0984	Ave		0.1095			0.0100	9.3		15.0			
Isooctane	1.7161 1.6604	1.5335 1.7513	1.4656 1.7784	1.6967	1.5250	Ave		1.6409			0.0100	7.1		15.0			
Tert-amyl methyl ether	0.6143 0.5709	0.5209 0.6052	0.5423 0.6064	0.6279	0.5918	Ave		0.5850			0.0100	6.4		15.0			
n-Butyl alcohol	0.4003 0.3740	0.3962 0.3946	0.3056 0.4003	0.3610	0.3224	Ave		0.3693			0.0010	10.0		15.0			
Ethyl acrylate	0.2152 0.1742	0.1936 0.1856	0.1653 0.1853	0.1953	0.1606	Ave		0.1844			0.0010	9.6		15.0			
2,3-Dichloro-1-propene	0.3866 0.3794	0.3317 0.3915	0.3266 0.3952	0.3773	0.3591	Ave		0.3684			0.0010	7.2		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391473

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2017 18:41 Calibration End Date: 06/30/2017 22:00 Calibration ID: 24866

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Methyl methacrylate	0.1909 0.1454	0.1444 0.1522	0.1294 0.1524	0.1507	0.1288	Ave		0.1493			0.0100	12.9		15.0			
2-Nitropropane	+++++ 0.0676	0.0695 0.0750	0.0630 0.0787	0.0642	0.0593	Ave		0.0682			0.0100	10.0		15.0			
n-Butyl acetate	0.5344 0.3796	0.4503 0.3941	0.3942 0.3881	0.4239	0.3707	Ave		0.4169			0.0010	12.9		15.0			
1-Chlorohexane	0.6324 0.4786	0.5465 0.5025	0.4664 0.5145	0.5092	0.4518	Ave		0.5127			0.0100	11.1		15.0			
Cyclohexanone	0.0156 0.0126	0.0136 0.0142	0.0118 0.0149	0.0134	0.0118	Ave		0.0135			0.0100	10.3		15.0			
2-Ethyltoluene	3.7629 3.3507	3.5872 3.5228	3.3968 3.6562	3.7720	3.1886	Ave		3.5296			0.0010	5.9		15.0			
Pentachloroethane	0.3779 0.3678	0.3984 0.3563	0.2995 0.4420	0.3606	0.3893	Ave		0.3740			0.0100	10.9		15.0			
1,2,3-Trimethylbenzene	2.9709 2.8069	2.6367 2.9194	2.4980 3.0032	2.8967	2.5534	Ave		2.7856			0.0010	7.1		15.0			
Benzyl chloride	+++++ 0.2099	0.1738 0.2286	0.1634 0.2302	0.2002	0.1836	Ave		0.1985			0.0010	13.2		15.0			
1,3,5-Trichlorobenzene	1.2899 1.2514	1.1543 1.2937	1.0705 1.3391	1.2898	1.1274	Ave		1.2270			0.0100	7.9		15.0			
2-Methylnaphthalene	+++++ 0.7370	+++++ 0.8346	0.3456 0.8798	0.6224	0.6260	Lin1	-3.399	0.8395			0.0100				0.9910		0.9900
1-Methylnaphthalene	+++++ 0.5271	+++++ 0.6002	0.2935 0.6139	0.4526	0.4611	Lin1	-2.106	0.5938			0.0100				0.9930		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391473

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2017 18:41 Calibration End Date: 06/30/2017 22:00 Calibration ID: 24866

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD03AP 500-391473/14	18J0630C.d
Level 2	STD04AP 500-391473/15	18J0630D.d
Level 3	STD05AP 500-391473/16	18J0630E.d
Level 4	STD06AP 500-391473/17	18J0630F.d
Level 5	STD07AP 500-391473/18	18J0630G.d
Level 6	STD08AP 500-391473/19	18J0630H.d
Level 7	STD09AP 500-391473/20	18J0630I.d
Level 8	STD10AP 500-391473/21	18J0630J.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	TBAd 9	Lin1	1363 69626	2193 130133	5255 172005	14057	37059	40.0 4000	80.0 6000	200 8000	800	2000
Isopropyl alcohol	TBAd 9	Ave	1344 104391	2633 176612	5781 236486	20210	50820	10.0 1000	20.0 1500	50.0 2000	200	500
Acetonitrile	FB	Ave	3061 233291	4607 376511	11710 493179	45239	124506	10.0 1000	20.0 1500	50.0 2000	200	500
Isopropyl ether	FB	Ave	13430 1258985	23297 1928912	62432 2518290	244061	665974	1.00 100	2.00 150	5.00 200	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	7449 695329	13800 1070098	31686 1413110	131444	334595	1.00 100	2.00 150	5.00 200	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	10275 971046	16503 1502169	46247 1944132	191972	510236	1.00 100	2.00 150	5.00 200	20.0	50.0
Propionitrile	FB	Ave	2731 228986	3982 359700	11947 468061	46095	121648	10.0 1000	20.0 1500	50.0 2000	200	500
Ethyl acetate	FB	Ave	3257 305448	6059 467772	13820 604673	57302	145739	2.00 200	4.00 300	10.0 400	40.0	100
Methacrylonitrile	FB	Ave	13328 1188686	22204 1843386	54571 2393190	228936	559823	10.0 1000	20.0 1500	50.0 2000	200	500
Isooctane	FB	Ave	18497 1819328	33530 2780501	84072 3631847	337016	867944	1.00 100	2.00 150	5.00 200	20.0	50.0
Tert-amyl methyl ether	FB	Ave	6621 625540	11389 960869	31108 1238384	124730	336842	1.00 100	2.00 150	5.00 200	20.0	50.0
n-Butyl alcohol	TBAd 9	Ave	1238 109590	2387 182587	4948 236043	20125	48824	25.0 2500	50.0 3750	125 5000	500	1250
Ethyl acrylate	FB	Ave	2320 190887	4233 294738	9482 378482	38790	91396	1.00 100	2.00 150	5.00 200	20.0	50.0
2,3-Dichloro-1-propene	FB	Ave	4167 415668	7252 621635	18734 807131	74942	204359	1.00 100	2.00 150	5.00 200	20.0	50.0
Methyl methacrylate	FB	Ave	4115 318714	6313 483448	14851 622440	59858	146656	2.00 200	4.00 300	10.0 400	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391473

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2017 18:41 Calibration End Date: 06/30/2017 22:00 Calibration ID: 24866

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Nitropropane	CBNZ d5	Ave	+++++ 100773	2135 158122	5098 210173	18158	45809	+++++ 200	4.00 300	10.0 400	40.0	100
n-Butyl acetate	CBNZ d5	Ave	4177 282811	6918 415311	15941 518092	59950	143194	1.00 100	2.00 150	5.00 200	20.0	50.0
1-Chlorohexane	CBNZ d5	Ave	4943 356527	8395 529546	18861 686849	72013	174511	1.00 100	2.00 150	5.00 200	20.0	50.0
Cyclohexanone	DCBd 4	Ave	7187 576649	11870 919344	28610 1225302	116315	282215	100 10000	200 15000	500 20000	2000	5000
2-Ethyltoluene	DCBd 4	Ave	17375 1539351	31373 2274889	82670 3004423	326775	761835	1.00 100	2.00 150	5.00 200	20.0	50.0
Pentachloroethane	DCBd 4	Ave	1745 168955	3484 230062	7290 363197	31240	93020	1.00 100	2.00 150	5.00 200	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	13718 1289547	23060 1885244	60795 2467792	250940	610076	1.00 100	2.00 150	5.00 200	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 96439	1520 147595	3977 189162	17342	43862	+++++ 100	2.00 150	5.00 200	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	5956 574912	10095 835399	26053 1100362	111737	269375	1.00 100	2.00 150	5.00 200	20.0	50.0
2-Methylnaphthalene	DCBd 4	Lin1	+++++ 338590	+++++ 538944	8411 722981	53917	149559	+++++ 100	+++++ 150	5.00 200	20.0	50.0
1-Methylnaphthalene	DCBd 4	Lin1	+++++ 242180	+++++ 387563	7144 504487	39210	110178	+++++ 100	+++++ 150	5.00 200	20.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630C.d
Lims ID: STD03AP
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Jun-2017 18:41:30 ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD03AP
Misc. Info.: 500-0046286-014
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub58
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 03-Jul-2017 10:25:02 Calib Date: 30-Jun-2017 22:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: alikpalae Date: 03-Jul-2017 10:25:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.924	2.913	0.011	76	1363	40.0	43.0	M
17 Isopropyl alcohol	45	3.437	3.432	0.005	55	1344	10.0	11.3	
18 Acetonitrile	41	3.555	3.534	0.021	66	3061	10.0	12.4	
* 22 TBA-d9 (IS)	65	3.748	3.753	-0.005	0	123712	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	95	13430	1.00	1.06	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	-0.001	77	7449	1.00	1.08	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	83	10275	1.00	1.06	
36 Propionitrile	54	5.053	5.048	0.005	75	2731	10.0	11.6	
37 Ethyl acetate	43	5.058	5.058	0.000	65	3257	2.00	2.16	
38 Methacrylonitrile	41	5.203	5.203	0.000	93	13328	10.0	11.3	
51 Isooctane	57	5.946	5.946	0.000	92	18497	1.00	1.05	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	68	6621	1.00	1.05	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	538934	50.0	50.0	
55 n-Butanol	56	6.455	6.439	0.016	54	1238	25.0	27.1	
57 Ethyl acrylate	55	6.631	6.626	0.005	33	2320	1.00	1.17	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	0	4167	1.00	1.05	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	13551	1000.0	1000.0	
62 Methyl methacrylate	41	6.872	6.867	0.005	65	4115	2.00	2.56	
78 n-Butyl acetate	43	8.734	8.728	0.006	77	4177	1.00	1.28	
* 81 Chlorobenzene-d5	117	9.413	9.408	0.005	86	390829	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	30	4943	1.00	1.23	
91 Cyclohexanone	55	11.039	11.029	0.010	68	7187	100.0	115.5	
102 2-Ethyltoluene	105	12.147	12.147	0.000	0	17375	1.00	1.07	
104 Pentachloroethane	167	12.334	12.334	0.000	43	1745	1.00	1.01	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	95	230872	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	70	13718	1.00	1.07	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	73	5956	1.00	1.05	

QC Flag Legend

Review Flags

M - Manually Integrated

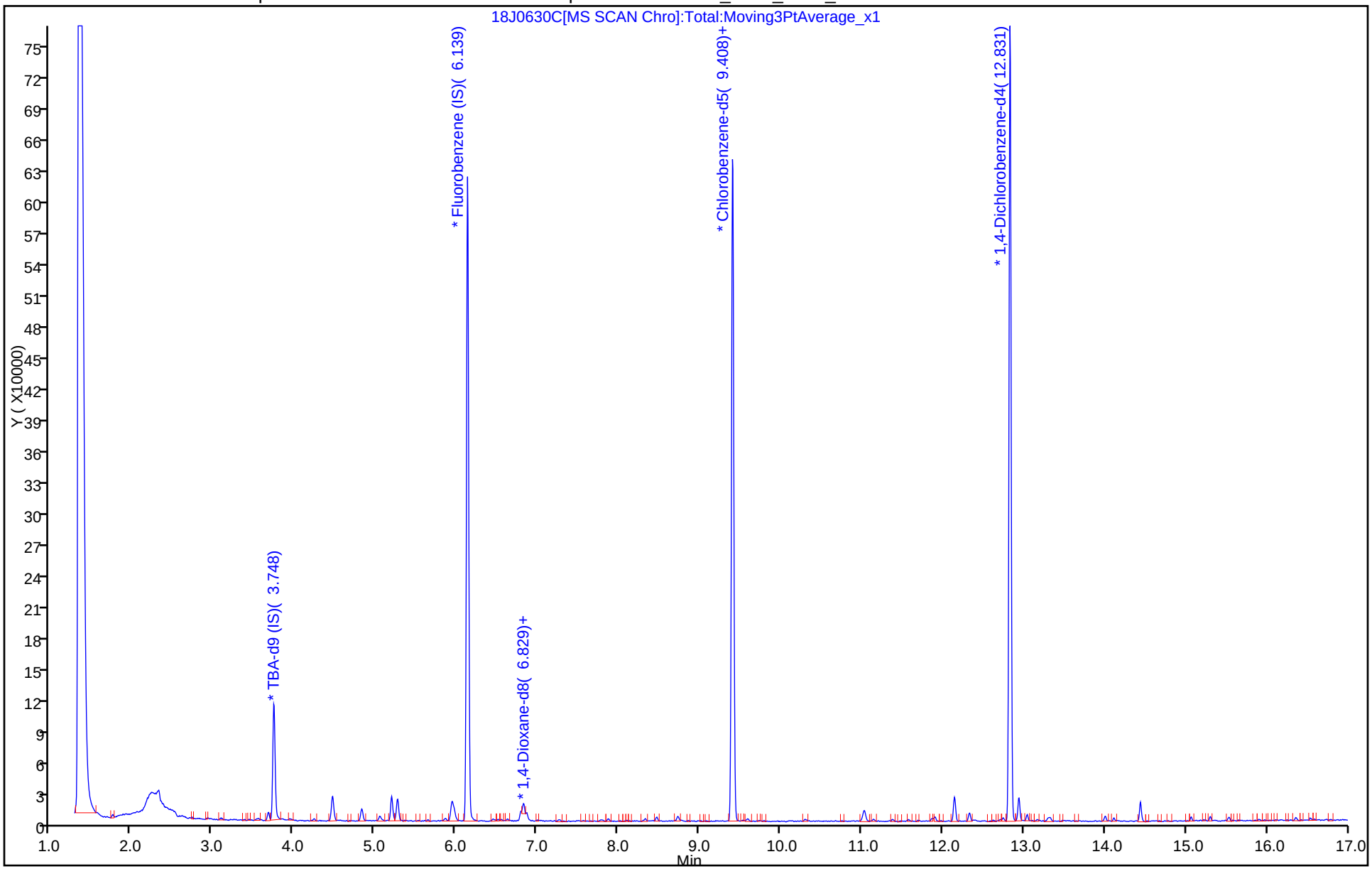
Reagents:

LOW8260STD2_00147	Amount Added:	1.00	Units: uL
LOWCYCHXWK_00149	Amount Added:	1.00	Units: uL
LO8260ADDS_00030	Amount Added:	1.00	Units: uL
LO8260POLRADD_00089	Amount Added:	1.00	Units: uL
LOW2,3-DICP_00060	Amount Added:	1.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LOW2ETTOL STD_00015	Amount Added:	1.00	Units: uL

Report Date: 03-Jul-2017 10:25:04 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630C.d				
Injection Date:	30-Jun-2017 18:41:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD03AP			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



Manual Integration/User Assign Peak Report

TestAmerica Chicago

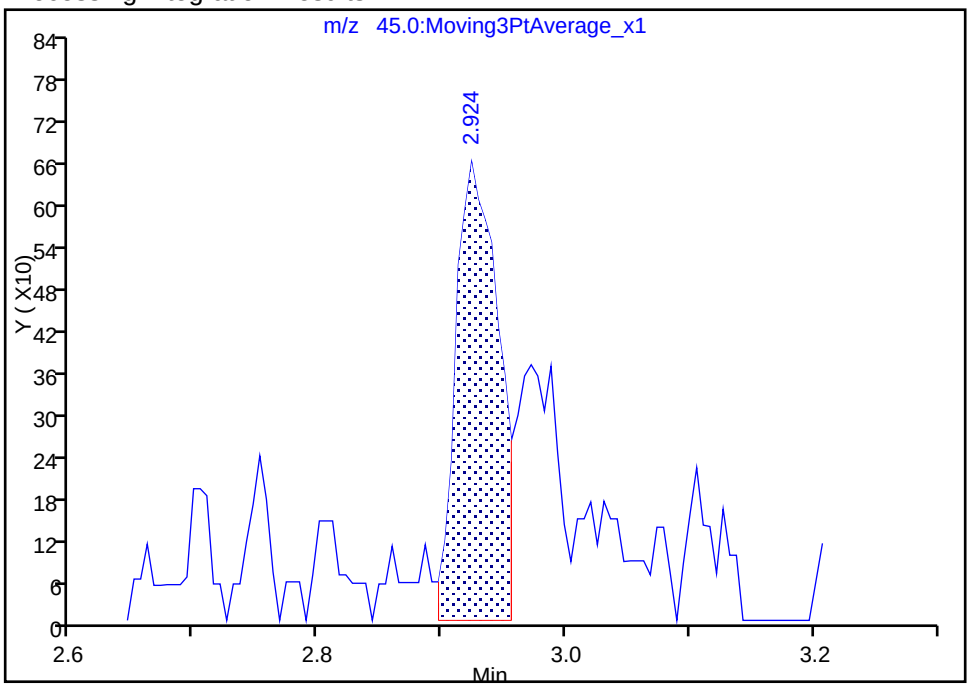
Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630C.d				
Injection Date:	30-Jun-2017 18:41:30	Instrument ID:	CMS18		
Lims ID:	STD03AP				
Client ID:					
Operator ID:	EA	ALS Bottle#:	15	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

9 Ethanol, CAS: 64-17-5

Signal: 1

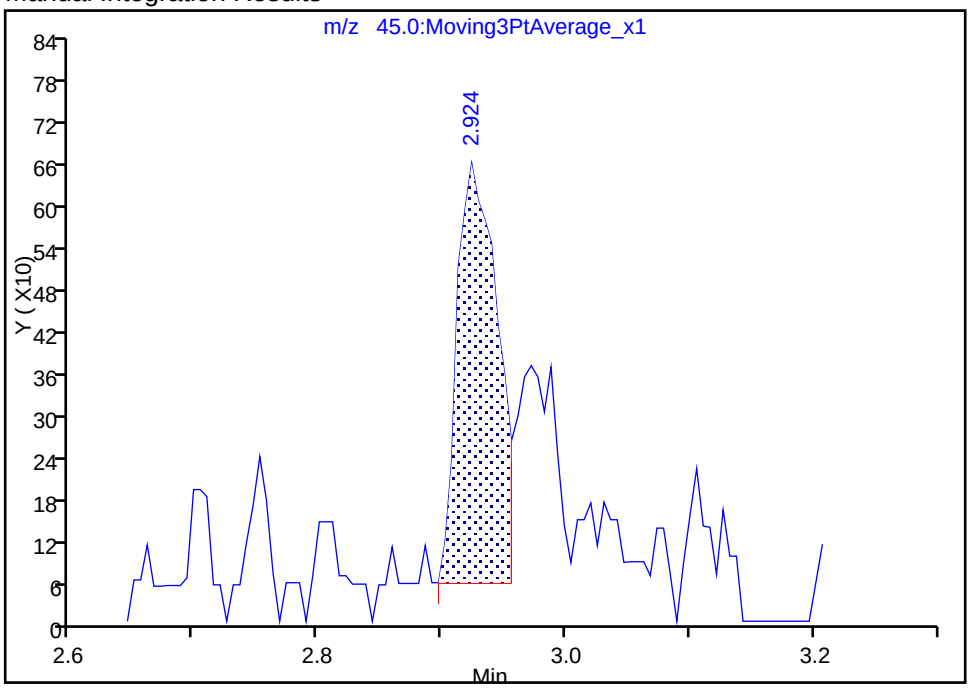
Processing Integration Results

RT: 2.92
Area: 1571
Amount: 40.000000
Amount Units: ug/l



Manual Integration Results

RT: 2.92
Area: 1363
Amount: 42.983579
Amount Units: ug/l



Reviewer: alikpalae, 30-Jun-2017 19:51:34

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630D.d
Lims ID: STD04AP
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Jun-2017 19:05:30 ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD04AP
Misc. Info.: 500-0046286-015
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub58
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 03-Jul-2017 10:25:08 Calib Date: 30-Jun-2017 22:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: alikpalae Date: 03-Jul-2017 10:25:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.934	2.913	0.021	91	2193	80.0	85.4	
17 Isopropyl alcohol	45	3.443	3.432	0.011	47	2633	20.0	22.8	
18 Acetonitrile	41	3.550	3.534	0.016	96	4607	20.0	18.4	
* 22 TBA-d9 (IS)	65	3.758	3.753	0.005	0	120483	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	93	23297	2.00	1.81	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	70	13800	2.00	1.97	
32 Tert-butyl ethyl ether	59	4.839	4.834	0.005	92	16503	2.00	1.69	
36 Propionitrile	54	5.058	5.048	0.010	60	3982	20.0	16.6	
37 Ethyl acetate	43	5.064	5.058	0.006	80	6059	4.00	3.97	
38 Methacrylonitrile	41	5.203	5.203	0.000	95	22204	20.0	18.6	
51 Isooctane	57	5.946	5.946	0.000	98	33530	2.00	1.87	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	79	11389	2.00	1.78	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	546630	50.0	50.0	
55 n-Butanol	56	6.455	6.439	0.016	65	2387	50.0	53.6	
57 Ethyl acrylate	55	6.631	6.626	0.005	46	4233	2.00	2.10	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	0	7252	2.00	1.80	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	12183	1000.0	1000.0	
62 Methyl methacrylate	41	6.872	6.867	0.005	78	6313	4.00	3.87	
66 2-Nitropropane	43	7.273	7.273	0.000	70	2135	4.00	4.08	
78 n-Butyl acetate	43	8.734	8.728	0.006	81	6918	2.00	2.16	
* 81 Chlorobenzene-d5	117	9.413	9.408	0.005	86	384052	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	33	8395	2.00	2.13	
91 Cyclohexanone	55	11.034	11.029	0.005	85	11870	200.0	201.4	
102 2-Ethyltoluene	105	12.147	12.147	0.000	0	31373	2.00	2.03	
104 Pentachloroethane	167	12.334	12.334	0.000	70	3484	2.00	2.13	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	95	218645	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	85	23060	2.00	1.89	
112 Benzyl chloride	126	13.040	13.040	0.000	70	1520	2.00	1.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	88	10095	2.00	1.88	

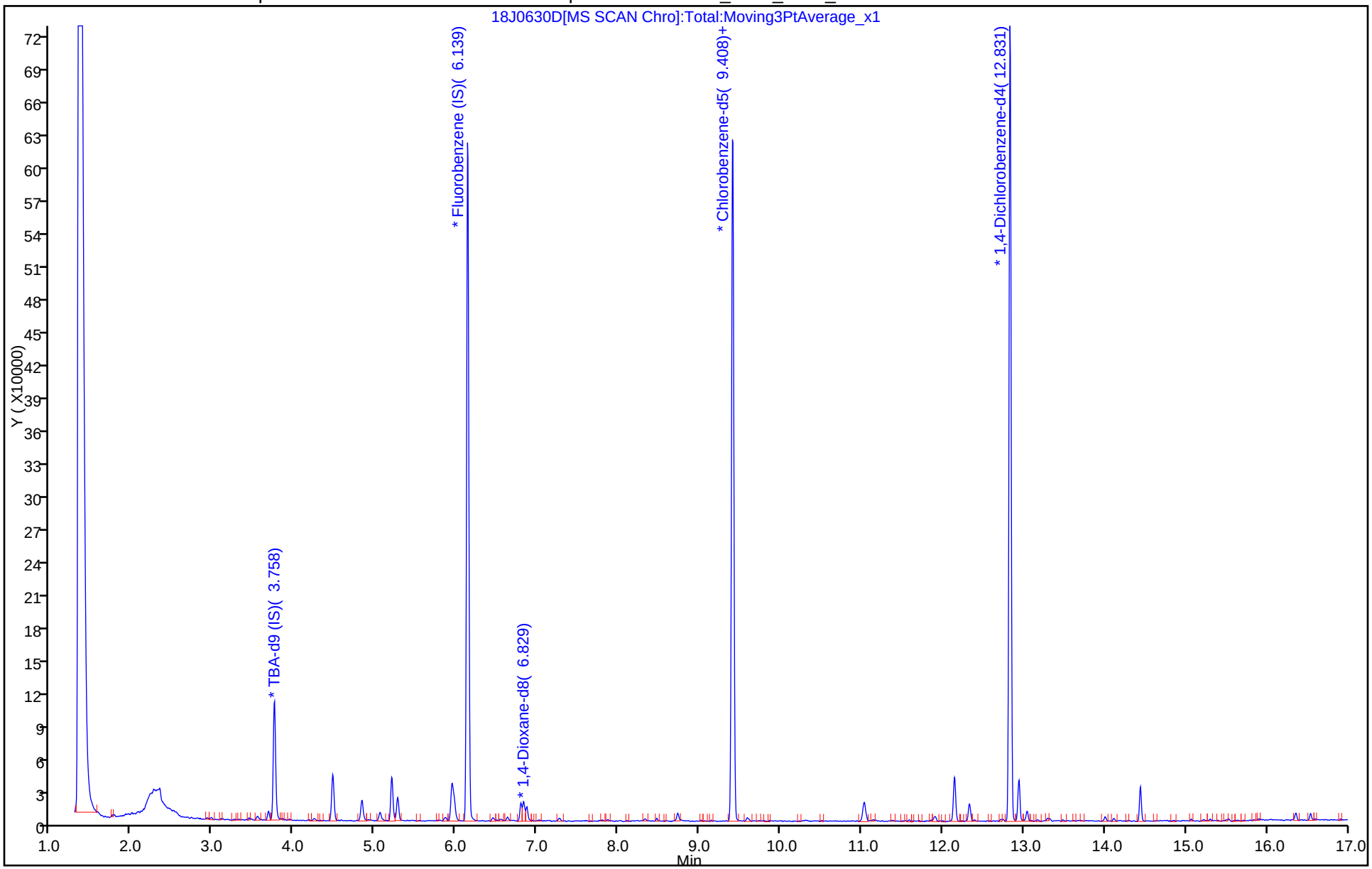
Reagents:

LOW8260STD2_00147	Amount Added:	2.00	Units: uL
LOWCYCHXWK_00149	Amount Added:	2.00	Units: uL
LO8260ADDS_00030	Amount Added:	2.00	Units: uL
LO8260POLRADD_00089	Amount Added:	2.00	Units: uL
LOW2,3-DICP_00060	Amount Added:	2.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LOW2ETTOL STD_00015	Amount Added:	2.00	Units: uL

Report Date: 03-Jul-2017 10:25:10 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630D.d				
Injection Date:	30-Jun-2017 19:05:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD04AP			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630E.d
Lims ID: STD05AP
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Jun-2017 19:30:30 ALS Bottle#: 17 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05AP
Misc. Info.: 500-0046286-016
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub58
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 03-Jul-2017 10:25:15 Calib Date: 30-Jun-2017 22:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: alikpalae Date: 03-Jul-2017 10:25:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.924	2.913	0.011	90	5255	200.0	217.4	M
17 Isopropyl alcohol	45	3.437	3.432	0.005	78	5781	50.0	46.6	
18 Acetonitrile	41	3.539	3.534	0.005	97	11710	50.0	44.5	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	129530	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	96	62432	5.00	4.63	
31 2-Chloro-1,3-butadiene	53	4.475	4.481	-0.006	74	31686	5.00	4.31	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	97	46247	5.00	4.50	
36 Propionitrile	54	5.048	5.048	0.000	92	11947	50.0	47.5	
37 Ethyl acetate	43	5.058	5.058	0.000	95	13820	10.0	8.63	
38 Methacrylonitrile	41	5.203	5.203	0.000	97	54571	50.0	43.5	
51 Isooctane	57	5.946	5.946	0.000	98	84072	5.00	4.47	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	91	31108	5.00	4.64	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	573631	50.0	50.0	
55 n-Butanol	56	6.449	6.439	0.010	79	4948	125.0	103.4	
57 Ethyl acrylate	55	6.626	6.626	0.000	84	9482	5.00	4.48	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	0	18734	5.00	4.43	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	13545	1000.0	1000.0	
62 Methyl methacrylate	41	6.866	6.867	-0.001	84	14851	10.0	8.67	
66 2-Nitropropane	43	7.273	7.273	0.000	81	5098	10.0	9.24	
78 n-Butyl acetate	43	8.728	8.728	0.000	92	15941	5.00	4.73	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	87	404406	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	37	18861	5.00	4.55	
91 Cyclohexanone	55	11.029	11.029	0.000	90	28610	500.0	436.1	
102 2-Ethyltoluene	105	12.147	12.147	0.000	0	82670	5.00	4.81	
104 Pentachloroethane	167	12.334	12.334	0.000	78	7290	5.00	4.00	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	95	243378	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	92	60795	5.00	4.48	
112 Benzyl chloride	126	13.045	13.040	0.005	88	3977	5.00	4.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	93	26053	5.00	4.36	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	59	8411	5.00	6.11	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	0	7144	5.00	6.02	

QC Flag Legend

Review Flags

M - Manually Integrated

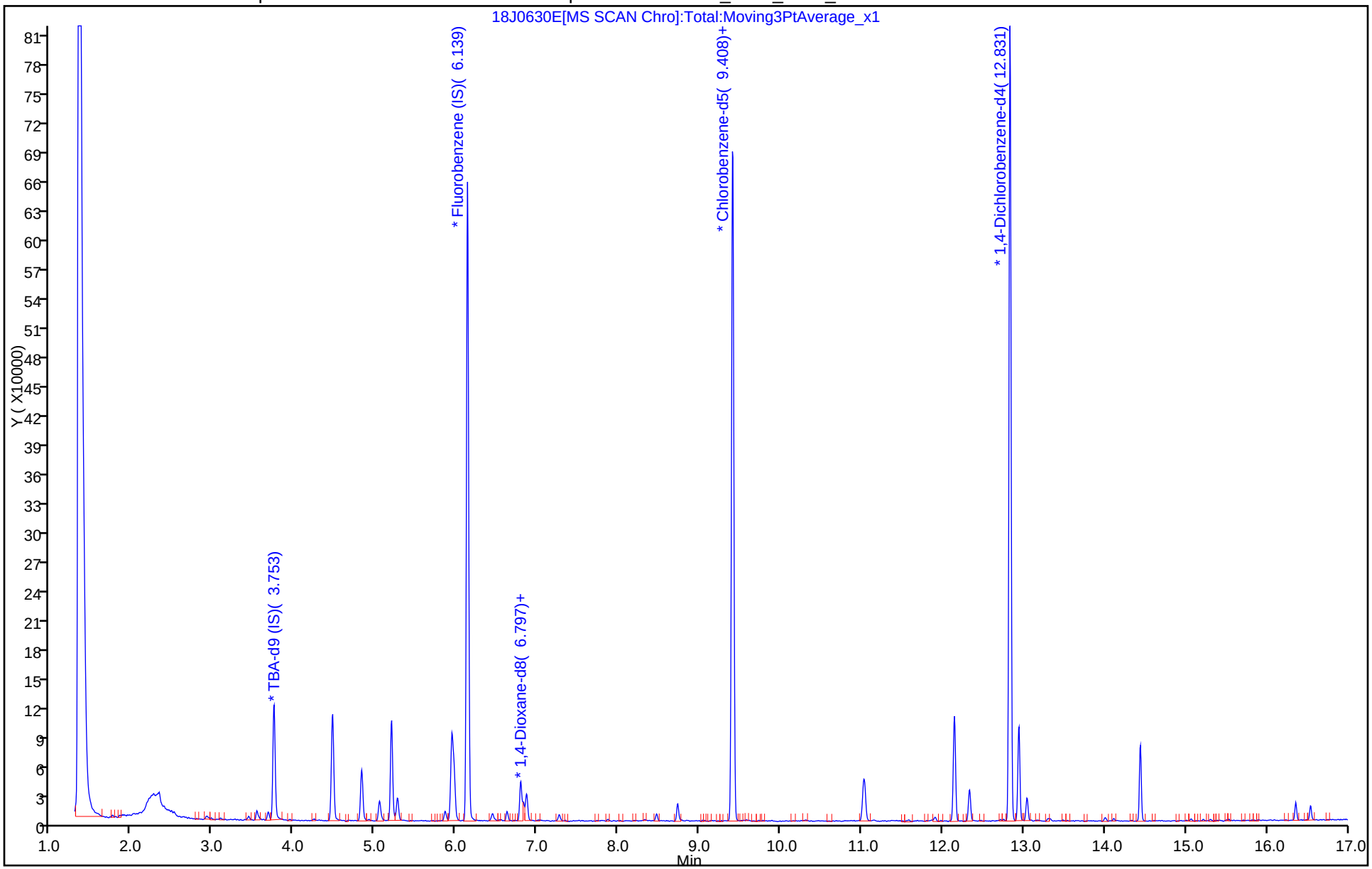
Reagents:

LOW8260STD2_00147	Amount Added:	5.00	Units: uL
LOWCYCHXWK_00149	Amount Added:	5.00	Units: uL
LO8260ADDS_00030	Amount Added:	5.00	Units: uL
LO8260POLRADD_00089	Amount Added:	5.00	Units: uL
LOW2,3-DICP_00060	Amount Added:	5.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LOW2ETTOL STD_00015	Amount Added:	5.00	Units: uL

Report Date: 03-Jul-2017 10:25:17 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630E.d				
Injection Date:	30-Jun-2017 19:30:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD05AP			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



Manual Integration/User Assign Peak Report

TestAmerica Chicago

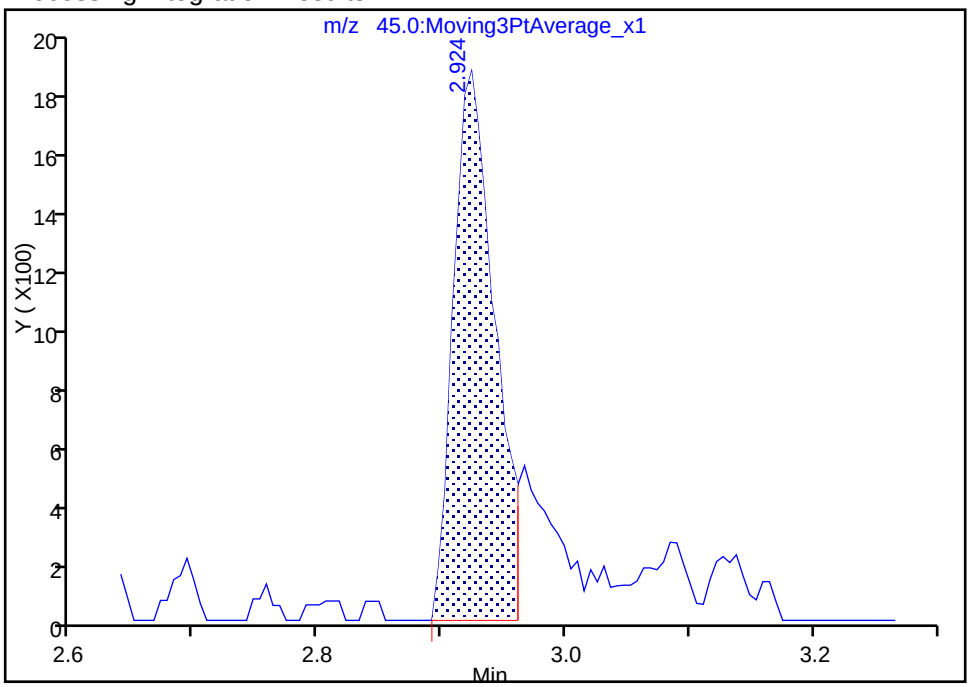
Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630E.d				
Injection Date:	30-Jun-2017 19:30:30	Instrument ID:	CMS18		
Lims ID:	STD05AP				
Client ID:					
Operator ID:	EA	ALS Bottle#:	17	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

9 Ethanol, CAS: 64-17-5

Signal: 1

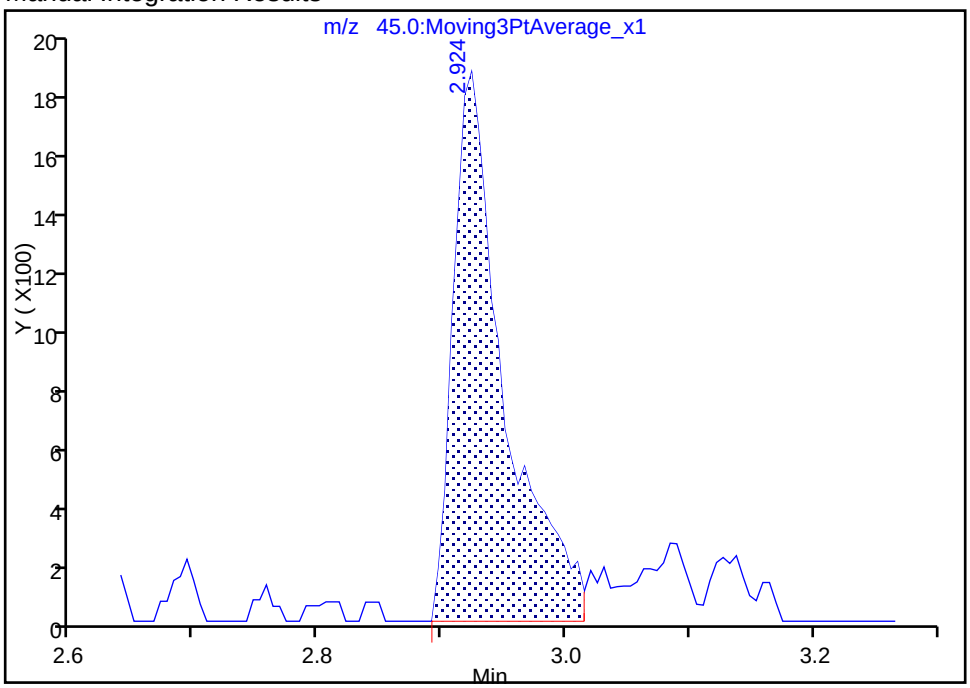
Processing Integration Results

RT: 2.92
Area: 4275
Amount: 200.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.92
Area: 5255
Amount: 217.3648
Amount Units: ug/l



Reviewer: alikpalae, 30-Jun-2017 19:54:36

Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630F.d
Lims ID: STD06AP
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Jun-2017 20:19:30 ALS Bottle#: 19 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD06AP
Misc. Info.: 500-0046286-017
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub58
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 03-Jul-2017 10:25:28 Calib Date: 30-Jun-2017 22:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: alikpalae Date: 03-Jul-2017 10:25:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.918	2.913	0.005	89	14057	800.0	721.9	
17 Isopropyl alcohol	45	3.437	3.432	0.005	94	20210	200.0	189.2	
18 Acetonitrile	41	3.539	3.534	0.005	99	45239	200.0	198.4	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	111503	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	95	244061	20.0	20.9	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	85	131444	20.0	20.7	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	98	191972	20.0	21.6	
36 Propionitrile	54	5.048	5.048	0.000	99	46095	200.0	211.7	
37 Ethyl acetate	43	5.058	5.058	0.000	99	57302	40.0	41.3	
38 Methacrylonitrile	41	5.203	5.203	0.000	97	228936	200.0	210.6	
51 Isooctane	57	5.946	5.946	0.000	98	337016	20.0	20.7	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	93	124730	20.0	21.5	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	496582	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	91	20125	500.0	488.7	
57 Ethyl acrylate	55	6.626	6.626	0.000	92	38790	20.0	21.2	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	0	74942	20.0	20.5	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	11016	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.000	92	59858	40.0	40.4	
66 2-Nitropropane	43	7.273	7.273	0.000	90	18158	40.0	37.7	
78 n-Butyl acetate	43	8.728	8.728	0.000	97	59950	20.0	20.3	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	353572	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	57	72013	20.0	19.9	
91 Cyclohexanone	55	11.029	11.029	0.000	94	116315	2000.0	1992.2	
102 2-Ethyltoluene	105	12.147	12.147	0.000	0	326775	20.0	21.4	
104 Pentachloroethane	167	12.334	12.334	0.000	91	31240	20.0	19.3	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	95	216577	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	95	250940	20.0	20.8	
112 Benzyl chloride	126	13.040	13.040	0.000	98	17342	20.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	96	111737	20.0	21.0	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	89	53917	20.0	18.9	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	0	39210	20.0	18.8	

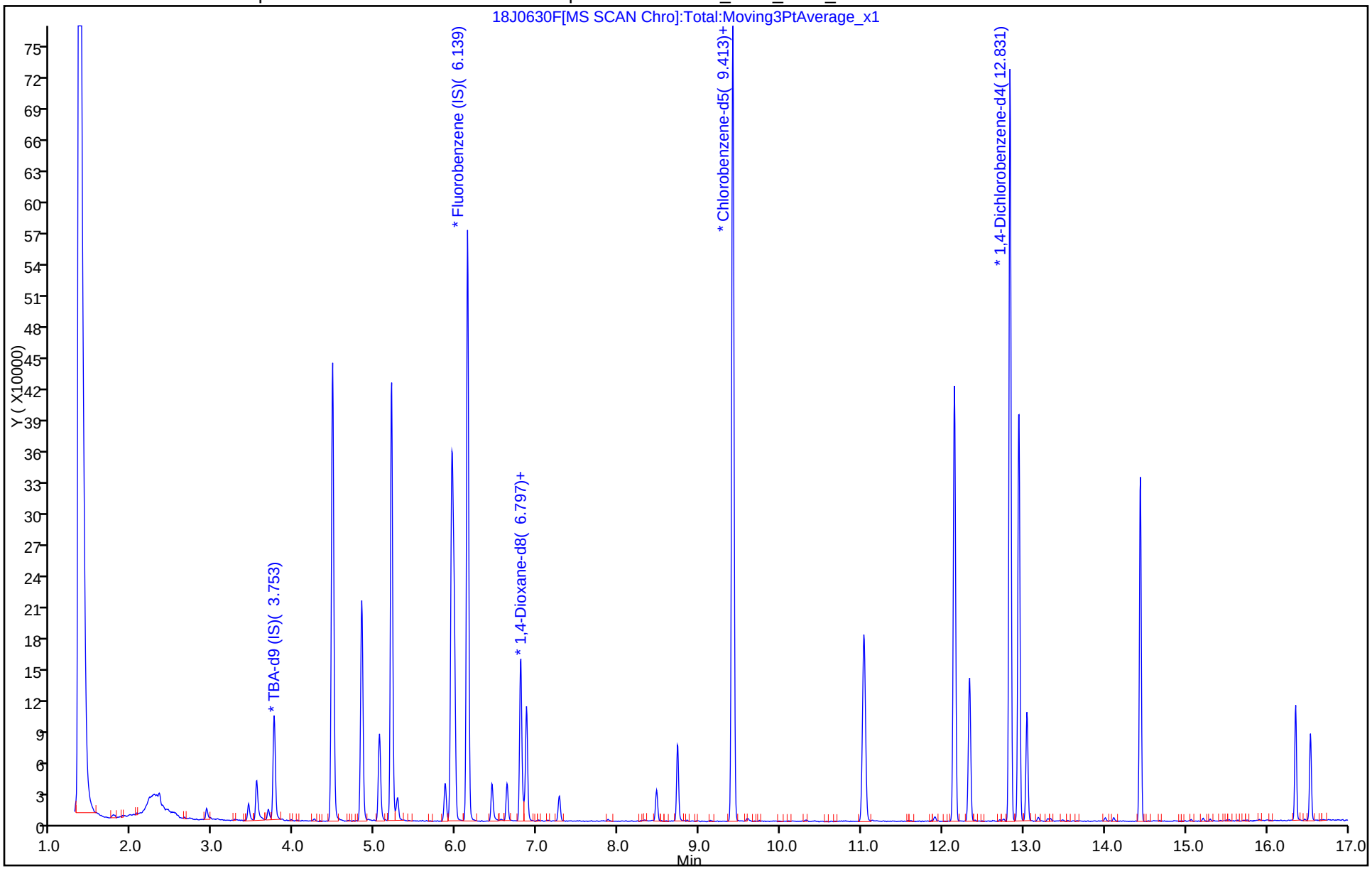
Reagents:

LOW8260STD2_00147	Amount Added: 20.00	Units: uL
LOWCYCHXWK_00149	Amount Added: 20.00	Units: uL
LO8260ADDS_00030	Amount Added: 20.00	Units: uL
LO8260POLRADD_00089	Amount Added: 20.00	Units: uL
LOW2,3-DICP_00060	Amount Added: 20.00	Units: uL
8260 LOWIS1_00108	Amount Added: 5.00	Units: uL
LOW2ETTOL STD_00015	Amount Added: 20.00	Units: uL

Report Date: 03-Jul-2017 10:25:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630F.d				
Injection Date:	30-Jun-2017 20:19:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD06AP			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630G.d
Lims ID: STD07AP
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Jun-2017 20:44:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD07AP
Misc. Info.: 500-0046286-018
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub58
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 03-Jul-2017 10:25:32 Calib Date: 30-Jun-2017 22:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: alikpalae Date: 03-Jul-2017 10:25:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.913	2.913	0.000	89	37059	2000.0	1783.1	
17 Isopropyl alcohol	45	3.432	3.432	0.000	95	50820	500.0	437.9	
18 Acetonitrile	41	3.534	3.534	0.000	100	124506	500.0	476.4	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	121141	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	95	665974	50.0	49.8	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	79	334595	50.0	45.9	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	99	510236	50.0	50.1	
36 Propionitrile	54	5.048	5.048	0.000	98	121648	500.0	487.4	
37 Ethyl acetate	43	5.058	5.058	0.000	99	145739	100.0	91.7	
38 Methacrylonitrile	41	5.203	5.203	0.000	97	559823	500.0	449.3	
51 Isooctane	57	5.946	5.946	0.000	98	867944	50.0	46.5	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	87	336842	50.0	50.6	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	569138	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	94	48824	1250.0	1091.3	
57 Ethyl acrylate	55	6.626	6.626	0.000	98	91396	50.0	43.5	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	0	204359	50.0	48.7	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	12539	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.000	87	146656	100.0	86.3	
66 2-Nitropropane	43	7.273	7.273	0.000	95	45809	100.0	86.9	
78 n-Butyl acetate	43	8.728	8.728	0.000	99	143194	50.0	44.5	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	87	386297	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	83	174511	50.0	44.1	
91 Cyclohexanone	55	11.029	11.029	0.000	95	282215	5000.0	4381.6	
102 2-Ethyltoluene	105	12.147	12.147	0.000	0	761835	50.0	45.2	
104 Pentachloroethane	167	12.334	12.334	0.000	94	93020	50.0	52.1	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	95	238928	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	94	610076	50.0	45.8	
112 Benzyl chloride	126	13.040	13.040	0.000	97	43862	50.0	46.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	269375	50.0	45.9	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	89	149559	50.0	41.3	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	0	110178	50.0	42.4	

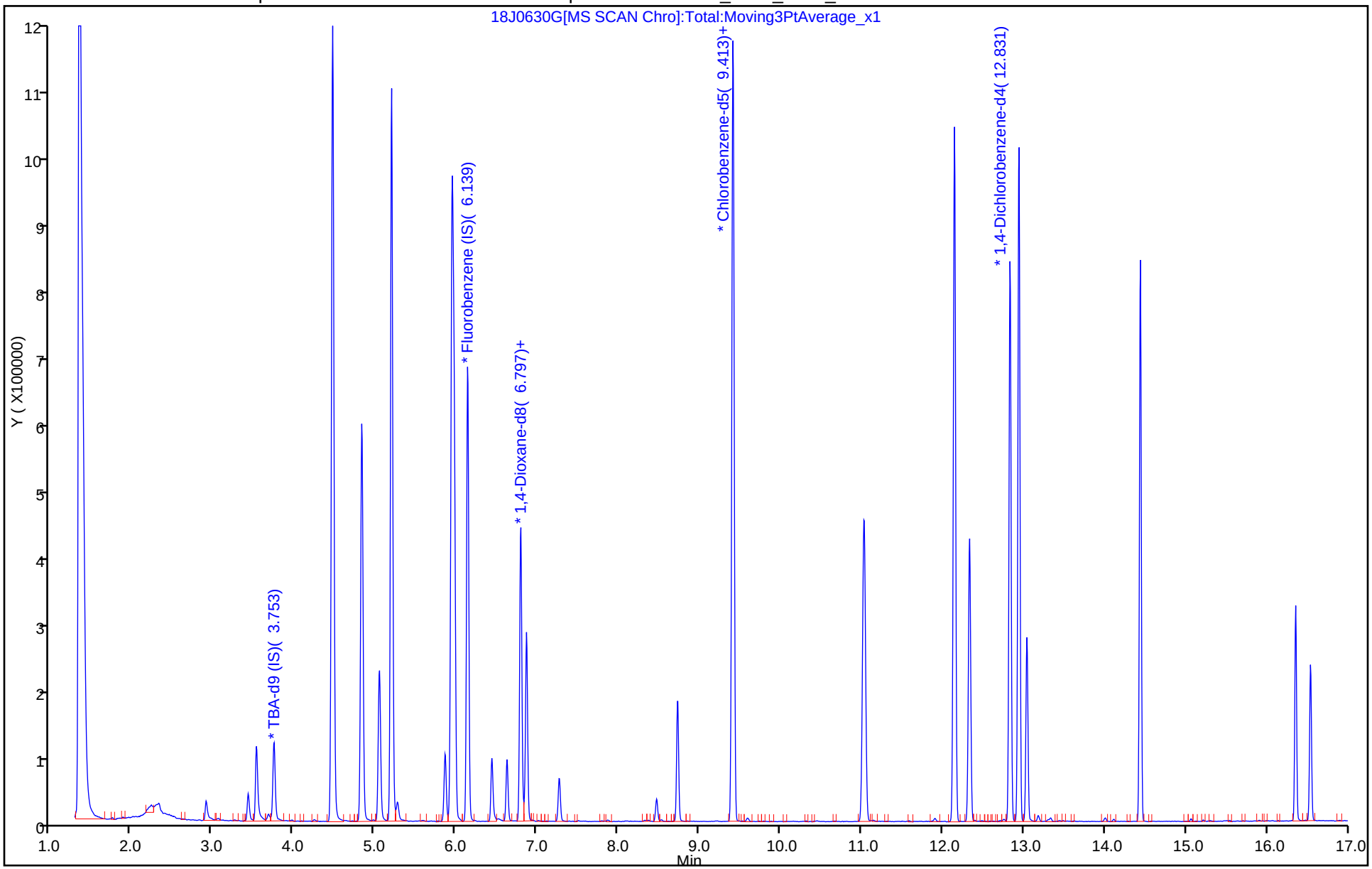
Reagents:

8260POLR ADDS_00121	Amount Added:	2.50	Units: uL
8260/624STD2_00162	Amount Added:	2.50	Units: uL
8260CYCHXWK_00167	Amount Added:	2.50	Units: uL
8260 23DCP WK_00097	Amount Added:	2.50	Units: uL
8260ADDS 2016_00046	Amount Added:	2.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
2ETTOL WK STD_00031	Amount Added:	2.50	Units: uL

Report Date: 03-Jul-2017 10:25:33 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630G.d				
Injection Date:	30-Jun-2017 20:44:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD07AP			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630H.d
Lims ID: STD08AP
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 30-Jun-2017 21:10:30 ALS Bottle#: 21 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD08AP
Misc. Info.: 500-0046286-019
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub58
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 03-Jul-2017 10:25:37 Calib Date: 30-Jun-2017 22:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: alikpalae Date: 03-Jul-2017 10:25:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.913	2.913	0.000	97	69626	4000.0	3483.5	
17 Isopropyl alcohol	45	3.432	3.432	0.000	98	104391	1000.0	929.7	
18 Acetonitrile	41	3.534	3.534	0.000	100	233291	1000.0	927.3	
* 22 TBA-d9 (IS)	65	3.748	3.753	-0.005	0	117199	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	95	1258985	100.0	97.8	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	88	695329	100.0	99.1	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	98	971046	100.0	99.0	
36 Propionitrile	54	5.042	5.048	-0.006	99	228986	1000.0	953.0	
37 Ethyl acetate	43	5.053	5.058	-0.005	99	305448	200.0	199.6	
38 Methacrylonitrile	41	5.203	5.203	0.000	98	1188686	1000.0	991.0	
51 Isooctane	57	5.946	5.946	0.000	98	1819328	100.0	101.2	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	85	625540	100.0	97.6	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	547865	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	94	109590	2500.0	2532.0	
57 Ethyl acrylate	55	6.626	6.626	0.000	98	190887	100.0	94.5	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	0	415668	100.0	103.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	11734	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.000	86	318714	200.0	194.8	
66 2-Nitropropane	43	7.273	7.273	0.000	95	100773	200.0	198.3	
78 n-Butyl acetate	43	8.728	8.728	0.000	98	282811	100.0	91.1	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	372496	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	81	356527	100.0	93.3	
91 Cyclohexanone	55	11.029	11.029	0.000	94	576649	10000	9312.2	
102 2-Ethyltoluene	105	12.147	12.147	0.000	0	1539351	100.0	94.9	
104 Pentachloroethane	167	12.334	12.334	0.000	91	168955	100.0	98.3	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.831	0.001	95	229708	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	95	1289547	100.0	100.8	
112 Benzyl chloride	126	13.040	13.040	0.000	98	96439	100.0	105.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	574912	100.0	102.0	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	90	338590	100.0	91.8	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	0	242180	100.0	92.3	

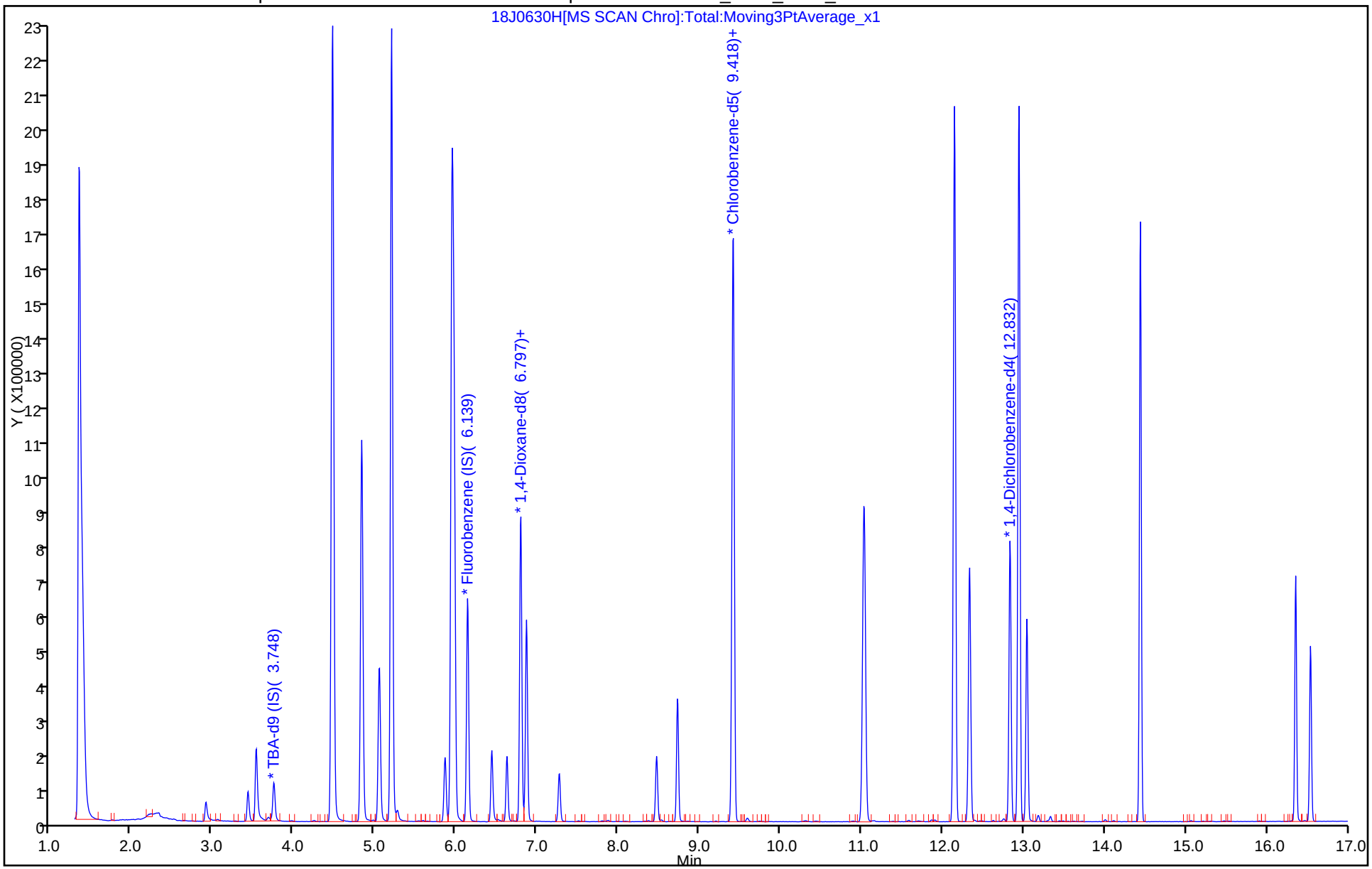
Reagents:

8260POLR ADDS_00121	Amount Added:	5.00	Units: uL
8260/624STD2_00162	Amount Added:	5.00	Units: uL
8260CYCHXWK_00167	Amount Added:	5.00	Units: uL
8260 23DCP WK_00097	Amount Added:	5.00	Units: uL
8260ADDS 2016_00046	Amount Added:	5.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
2ETTOL WK STD_00031	Amount Added:	5.00	Units: uL

Report Date: 03-Jul-2017 10:25:38 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630H.d				
Injection Date:	30-Jun-2017 21:10:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD08AP			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630I.d
Lims ID: STD09AP
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 30-Jun-2017 21:35:30 ALS Bottle#: 22 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD09AP
Misc. Info.: 500-0046286-020
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub58
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 03-Jul-2017 10:25:42 Calib Date: 30-Jun-2017 22:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: alikpalae Date: 03-Jul-2017 10:25:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.908	2.913	-0.005	98	130133	6000.0	6201.2	
17 Isopropyl alcohol	45	3.432	3.432	0.000	98	176612	1500.0	1494.0	
18 Acetonitrile	41	3.528	3.534	-0.006	100	376511	1500.0	1549.2	
* 22 TBA-d9 (IS)	65	3.748	3.753	-0.005	0	123390	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	95	1928912	150.0	155.2	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	88	1070098	150.0	157.8	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	98	1502169	150.0	158.5	
36 Propionitrile	54	5.042	5.048	-0.006	99	359700	1500.0	1549.7	
37 Ethyl acetate	43	5.053	5.058	-0.005	99	467772	300.0	316.5	
38 Methacrylonitrile	41	5.203	5.203	0.000	97	1843386	1500.0	1591.0	
51 Isooctane	57	5.946	5.946	0.000	98	2780501	150.0	160.1	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	86	960869	150.0	155.2	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	529234	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	95	182587	3750.0	4006.8	
57 Ethyl acrylate	55	6.626	6.626	0.000	98	294738	150.0	151.0	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	0	621635	150.0	159.4	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	12676	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.000	87	483448	300.0	306.0	
66 2-Nitropropane	43	7.268	7.273	-0.005	96	158122	300.0	330.0	
78 n-Butyl acetate	43	8.728	8.728	0.000	99	415311	150.0	141.8	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	84	351281	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	81	529546	150.0	147.0	
91 Cyclohexanone	55	11.034	11.029	0.005	94	919344	15000	15843	
102 2-Ethyltoluene	105	12.147	12.147	0.000	0	2274889	150.0	149.7	
104 Pentachloroethane	167	12.334	12.334	0.000	92	230062	150.0	142.9	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.831	0.001	95	215253	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	95	1885244	150.0	157.2	
112 Benzyl chloride	126	13.040	13.040	0.000	98	147595	150.0	172.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	94	835399	150.0	158.1	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	89	538944	150.0	153.2	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	0	387563	150.0	155.2	

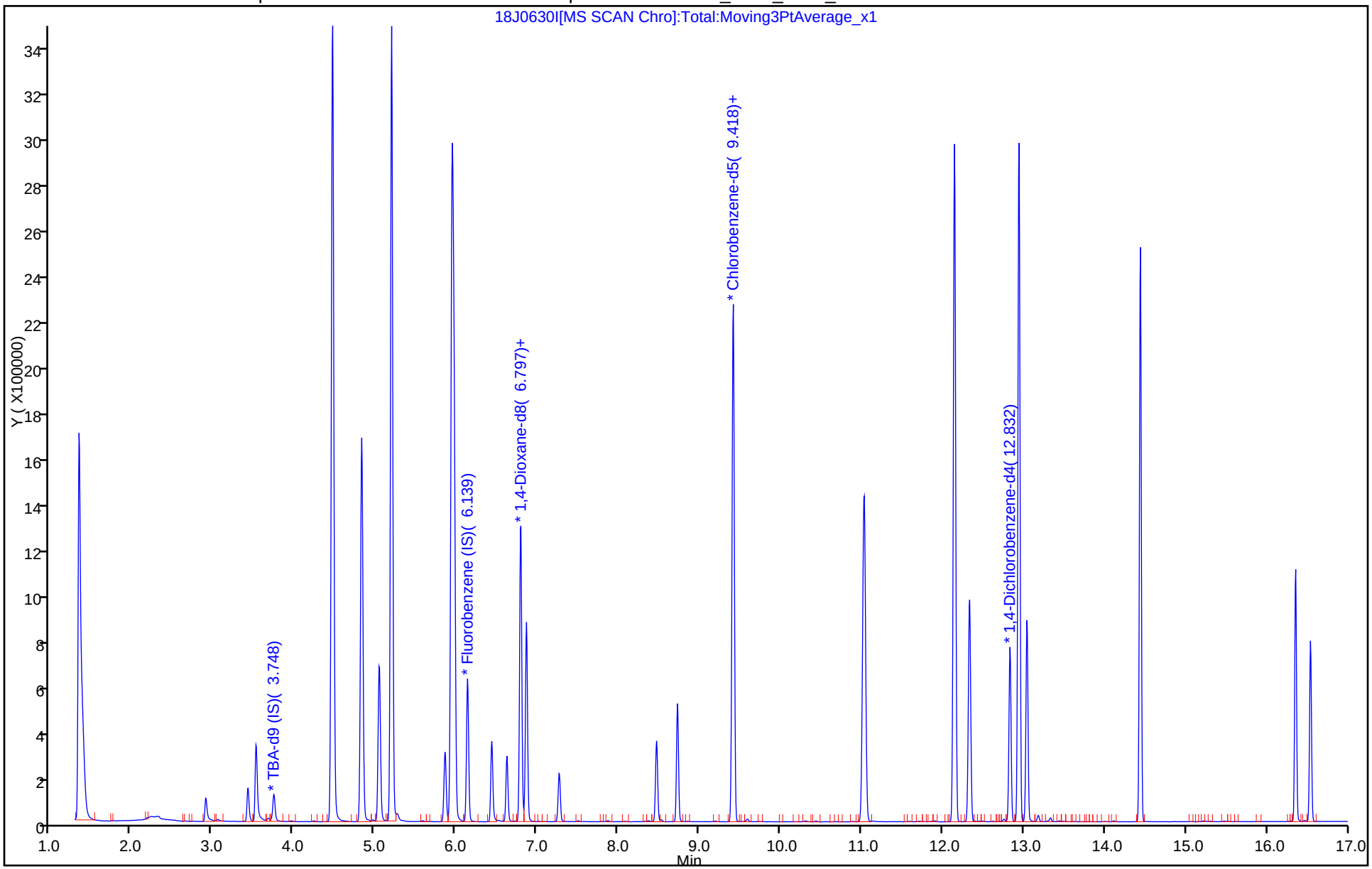
Reagents:

8260POLR ADDS_00121	Amount Added:	7.50	Units: uL
8260/624STD2_00162	Amount Added:	7.50	Units: uL
8260CYCHXWK_00167	Amount Added:	7.50	Units: uL
8260 23DCP WK_00097	Amount Added:	7.50	Units: uL
8260ADDS 2016_00046	Amount Added:	7.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
2ETTOL WK STD_00031	Amount Added:	7.50	Units: uL

Report Date: 03-Jul-2017 10:25:43 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630I.d				
Injection Date:	30-Jun-2017 21:35:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD09AP			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d
Lims ID: STD10AP
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 30-Jun-2017 22:00:30 ALS Bottle#: 23 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10AP
Misc. Info.: 500-0046286-021
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub58
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 03-Jul-2017 10:25:47 Calib Date: 30-Jun-2017 22:00:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: alikpalae Date: 03-Jul-2017 10:25:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.919	2.913	0.005	98	172005	8000.0	8584.5	
17 Isopropyl alcohol	45	3.432	3.432	0.000	98	236486	2000.0	2093.1	
18 Acetonitrile	41	3.534	3.534	0.000	100	493179	2000.0	2103.5	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	117929	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	95	2518290	200.0	210.0	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	87	1413110	200.0	216.0	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	98	1944132	200.0	212.7	
36 Propionitrile	54	5.042	5.048	-0.006	99	468061	2000.0	2090.4	
37 Ethyl acetate	43	5.053	5.058	-0.005	99	604673	400.0	424.1	
38 Methacrylonitrile	41	5.203	5.203	0.000	98	2393190	2000.0	2141.1	
51 Isooctane	57	5.946	5.946	0.000	98	3631847	200.0	216.8	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	85	1238384	200.0	207.3	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	510546	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	95	236043	5000.0	5419.8	
57 Ethyl acrylate	55	6.626	6.626	0.000	98	378482	200.0	201.0	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	0	807131	200.0	214.6	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	13387	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.000	88	622440	400.0	408.3	
66 2-Nitropropane	43	7.268	7.273	-0.005	96	210173	400.0	461.7	
78 n-Butyl acetate	43	8.728	8.728	0.000	99	518092	200.0	186.2	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	74	333759	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	80	686849	200.0	200.7	
91 Cyclohexanone	55	11.034	11.029	0.005	94	1225302	20000	22126	
102 2-Ethyltoluene	105	12.147	12.147	0.000	0	3004423	200.0	207.2	
104 Pentachloroethane	167	12.334	12.334	0.000	91	363197	200.0	236.4	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.831	0.001	95	205432	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	95	2467792	200.0	215.6	
112 Benzyl chloride	126	13.040	13.040	0.000	98	189162	200.0	231.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	1100362	200.0	218.3	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	93	722981	200.0	213.7	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	0	504487	200.0	210.3	

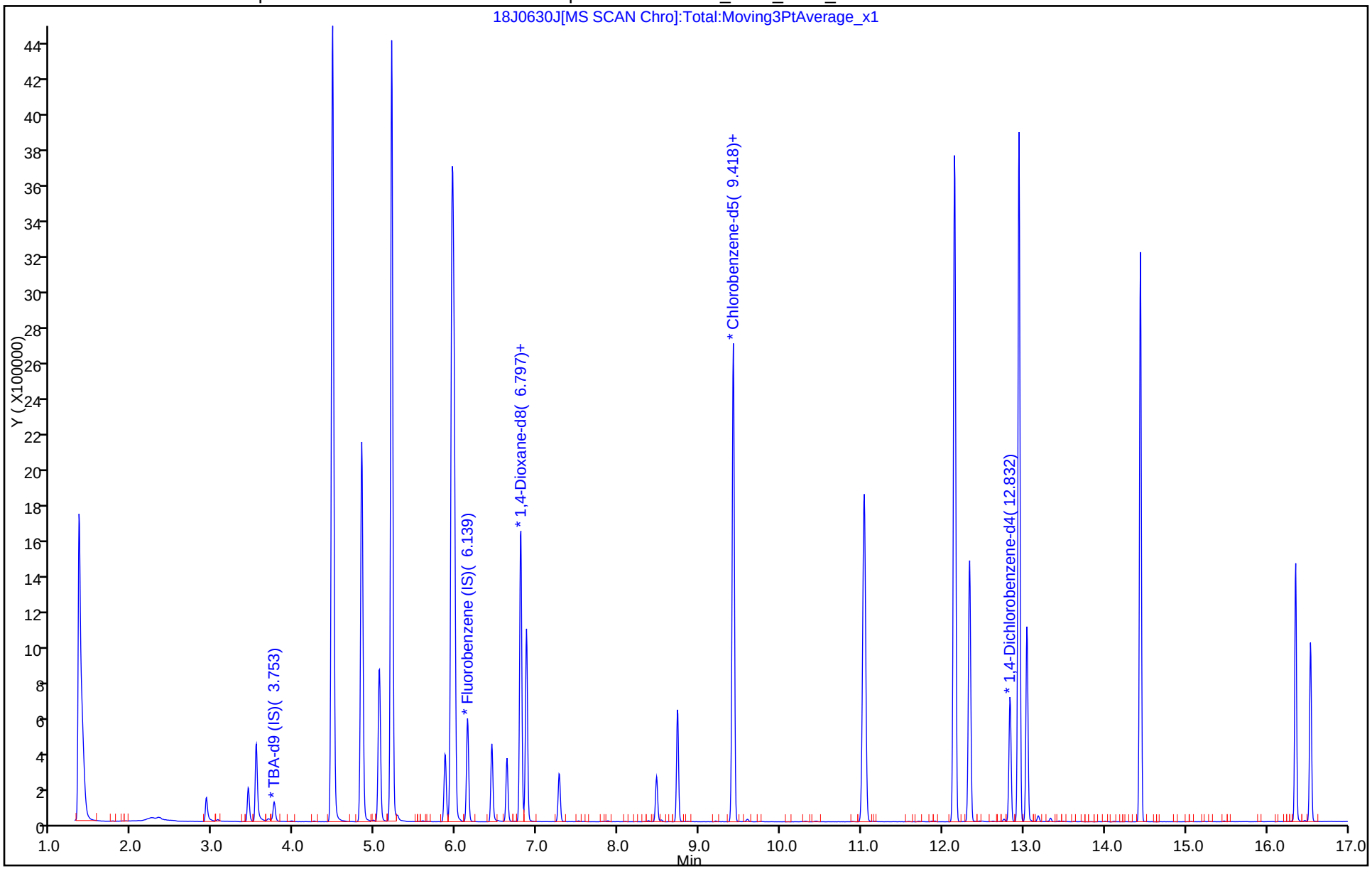
Reagents:

8260POLR ADDS_00121	Amount Added: 10.00	Units: uL
8260/624STD2_00162	Amount Added: 10.00	Units: uL
8260CYCHXWK_00167	Amount Added: 10.00	Units: uL
8260 23DCP WK_00097	Amount Added: 10.00	Units: uL
8260ADDS 2016_00046	Amount Added: 10.00	Units: uL
8260 LOWIS1_00108	Amount Added: 5.00	Units: uL
2ETTOL WK STD_00031	Amount Added: 10.00	Units: uL

Report Date: 03-Jul-2017 10:25:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d				
Injection Date:	30-Jun-2017 22:00:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD10AP			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane			0.2763	0.2725	0.2605	Ave		0.2998			0.0100	12.2		15.0			
	0.2563	0.3394	0.3309	0.3258	0.3368												
Chloromethane			0.5183	0.4479	0.3821	Ave		0.4281			0.1000	10.3		15.0			
	0.3769	0.4202	0.4228	0.4168	0.4398												
Vinyl chloride	0.6443	0.4478	0.4231	0.4209	0.3436	Lin2	0.0640	0.3653			0.0100				0.9940		0.9900
	0.3447	0.3806	0.3794	0.3772	0.3894												
Butadiene			0.5076	0.4019	0.3750	Ave		0.4180			0.0100	10.2		15.0			
	0.3715	0.4146	0.4187	0.4189	0.4354												
Bromomethane			0.1885	0.1622	0.1298	Lin2	0.0692	0.1212			0.0100				0.9970		0.9900
	0.1180	0.1199	0.1216	0.1212	0.1320												
Chloroethane			0.2198	0.1800	0.1802	Ave		0.1829			0.0100	8.9		15.0			
	0.1749	0.1689	0.1741	0.1747	0.1902												
Dichlorofluoromethane			0.6069	0.5329	0.5092	Ave		0.5092			0.0100	8.6		15.0			
	0.4823	0.4879	0.4844	0.4748	0.4956												
Trichlorofluoromethane			0.5418	0.5271	0.4317	Ave		0.4679			0.0100	9.1		15.0			
	0.4318	0.4583	0.4475	0.4452	0.4600												
Ethyl ether			0.1950	0.2077	0.1937	Ave		0.2041			0.0100	3.8		15.0			
	0.1981	0.2033	0.2129	0.2103	0.2122												
Acrolein			0.0198	0.0184	0.0176	Ave		0.0195			0.0010	5.2		15.0			
	0.0190	0.0199	0.0201	0.0201	0.0207												
1,1-Dichloroethene			0.2795	0.3079	0.2831	Ave		0.2881			0.0100	3.1		15.0			
	0.2811	0.2854	0.2861	0.2913	0.2900												
1,1,2-Trichloro-1,2,2-trifluoroethane			0.3166	0.3127	0.2820	Ave		0.3031			0.0100	3.5		15.0			
	0.2975	0.3087	0.3021	0.3007	0.3045												
Acetone			+++++	+++++	0.0552	Ave		0.0457			0.0100	10.6		15.0			
	0.0420	0.0428	0.0444	0.0442	0.0457												

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Iodomethane	0.5137	0.5304	0.5282 0.5377	0.5743 0.5391	0.4895 0.5375	Ave		0.5313			0.0100	4.5		15.0			
Carbon disulfide	0.8819	0.9435	0.9975 0.9654	0.9479 0.9576	0.8528 0.9591	Ave		0.9382			0.0100	5.0		15.0			
3-Chloropropene	0.1683	0.1745	0.1800 0.1677	0.1803 0.1700	0.1660 0.1632	Ave		0.1713			0.0100	3.7		15.0			
Methyl acetate	0.1148	0.1152	0.1275 0.1234	0.1294 0.1211	0.1098 0.1242	Ave		0.1207			0.0100	5.7		15.0			
Methylene Chloride	0.2756	0.2786	+++++ 0.2767	+++++ 0.2768	0.2792 0.2744	Ave		0.2769			0.0100	0.7		15.0			
tert-Butyl alcohol	1.2676	1.1675	+++++ 1.2540	1.2936 1.2208	1.0837 1.2206	Ave		1.2154			0.0100	5.8		15.0			
Acrylonitrile	0.0591	0.0607	0.0724 0.0632	0.0682 0.0629	0.0552 0.0645	Ave		0.0633			0.0010	8.4		15.0			
trans-1,2-Dichloroethene	0.3031	0.3087	0.3351 0.3038	0.3406 0.3015	0.2951 0.3003	Ave		0.3110			0.0100	5.5		15.0			
Methyl tert-butyl ether	0.5218	0.5246	0.6455 0.5374	0.5494 0.5315	0.4843 0.5384	Ave		0.5416			0.0100	8.5		15.0			
Hexane	0.5291	0.5580	0.6150 0.5602	0.5928 0.5693	0.5108 0.5700	Ave		0.5632			0.0100	5.8		15.0			
1,1-Dichloroethane	0.5784	0.5787	0.6132 0.5921	0.6273 0.5989	0.5447 0.5980	Ave		0.5914			0.1000	4.2		15.0			
Vinyl acetate	0.3416	0.3428	0.3961 0.3572	0.3940 0.3799	0.3243 0.3902	Ave		0.3658			0.0100	7.6		15.0			
2,2-Dichloropropane	0.3427	0.3427	0.3777 0.3327	0.3861 0.3232	0.3438 0.3157	Ave		0.3456			0.0100	7.1		15.0			
cis-1,2-Dichloroethene	0.3196	0.3198	0.3554 0.3221	0.3319 0.3216	0.3023 0.3211	Ave		0.3242			0.0100	4.6		15.0			
Methyl Ethyl Ketone	0.0656	0.0666	+++++ 0.0640	+++++ 0.0649	0.0663 0.0669	Ave		0.0657			0.0100	1.7		15.0			
Bromochloromethane	0.1287	0.1275	0.1387 0.1347	0.1375 0.1326	0.1258 0.1340	Ave		0.1324			0.0100	3.6		15.0			
Tetrahydrofuran	0.0459	0.0425	+++++ 0.0440	0.0737 0.0442	0.0481 0.0454	Lin2	0.1149	0.0426			0.0100				0.9940		0.9900
Chloroform	0.4647	0.4647	0.5717 0.4716	0.5087 0.4801	0.4443 0.4794	Ave		0.4856			0.0100	8.1		15.0			
1,1,1-Trichloroethane	0.4212	0.4351	0.4907 0.4387	0.4556 0.4322	0.4060 0.4354	Ave		0.4394			0.0100	5.7		15.0			
Cyclohexane	0.6788	0.7017	0.7423 0.7013	0.7140 0.7053	0.6763 0.7151	Ave		0.7044			0.0100	3.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1-Dichloropropene	0.3718	0.3763	0.3969 0.3746	0.4013 0.3796	0.3616 0.3760	Ave		0.3798			0.0100	3.5		15.0			
Carbon tetrachloride	0.3723	0.3948	0.4093 0.4005	0.3837 0.4026	0.3594 0.4022	Ave		0.3906			0.0100	4.4		15.0			
Isobutyl alcohol	0.5452	0.5399	+++++ 0.5804	0.6087 0.5609	0.4962 0.5732	Ave		0.5578			0.0010	6.4		15.0			
Benzene	1.1020 1.0510	1.1090 1.0571	1.1657 1.0765	1.1478 1.0894	1.0160 1.0740	Ave		1.0889			0.0100	4.1		15.0			
1,2-Dichloroethane	0.3228	0.3237	0.3511 0.3362	0.3456 0.3373	0.2954 0.3409	Ave		0.3316			0.0100	5.3		15.0			
Heptane	0.5198	0.5448	0.6117 0.5457	0.5860 0.5655	0.5250 0.5600	Ave		0.5573			0.0100	5.5		15.0			
Trichloroethene	0.3246 0.3035	0.3380 0.3050	0.3393 0.3093	0.3082 0.3136	0.2826 0.3125	Ave		0.3137			0.0100	5.4		15.0			
Methylcyclohexane	0.5798	0.5851	0.6265 0.5773	0.6212 0.5767	0.5645 0.5727	Ave		0.5880			0.0100	3.9		15.0			
1,2-Dichloropropane	0.2730	0.2780	0.3336 0.2831	0.2936 0.2914	0.2640 0.2899	Ave		0.2883			0.0100	7.2		15.0			
Dibromomethane	0.1115	0.1136	0.1308 0.1162	0.1249 0.1176	0.1027 0.1175	Ave		0.1168			0.0100	7.2		15.0			
1,4-Dioxane	1.2278	1.0540	+++++ 1.1060	+++++ 1.1021	1.1710 0.9575	Ave		1.1030			0.0010	8.5		15.0			
Bromodichloromethane	0.2711	0.2819	0.3396 0.2925	0.2705 0.3049	0.2618 0.3052	Ave		0.2909			0.0100	8.7		15.0			
2-Chloroethyl vinyl ether	0.1297	0.1258	0.1590 0.1316	0.1414 0.1343	0.1200 0.1368	Ave		0.1348			0.0100	8.7		15.0			
cis-1,3-Dichloropropene	0.4831	0.4864	0.5389 0.5056	0.4865 0.5178	0.4376 0.5133	Ave		0.4961			0.0100	6.1		15.0			
methyl isobutyl ketone	0.2069	0.2044	+++++ 0.2063	+++++ 0.2068	0.2041 0.2110	Ave		0.2066			0.0100	1.2		15.0			
Toluene	1.0019 0.8786	0.8502 0.8647	1.1068 0.9041	0.9279 0.9146	0.8261 0.9009	Ave		0.9176			0.0100	9.0		15.0			
trans-1,3-Dichloropropene	0.3841	0.3771	0.4853 0.3941	0.4035 0.3975	0.3709 0.3974	Ave		0.4013			0.0100	8.9		15.0			
Ethyl methacrylate	0.2716	0.2543	0.3947 0.2639	0.2953 0.2609	0.2680 0.2612	Lin2	0.1255	0.2556			0.0100				0.9970		0.9900
1,1,2-Trichloroethane	0.2049	0.1972	0.2899 0.2111	0.2231 0.2111	0.2052 0.2119	Ave		0.2193			0.0100	13.4		15.0			
Tetrachloroethene	0.4383	0.4390	0.4991 0.4407	0.4633 0.4517	0.4079 0.4402	Ave		0.4475			0.0100	5.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,3-Dichloropropane	0.3646	0.3527	0.4398 0.3661	0.4053 0.3689	0.3567 0.3613	Ave		0.3769			0.0100	8.0		15.0			
2-Hexanone	0.1399	0.1394	+++++ 0.1347	+++++ 0.1331	0.1395 0.1350	Ave		0.1369			0.0100	2.2		15.0			
Dibromochloromethane	0.2520	0.2659	0.3108 0.2845	0.2706 0.2908	0.2380 0.2922	Ave		0.2756			0.0100	8.6		15.0			
1,2-Dibromoethane	0.2115	0.2080	0.2577 0.2165	0.2505 0.2169	0.2056 0.2169	Ave		0.2229			0.0100	8.9		15.0			
Chlorobenzene	1.0275	1.0319	1.4344 1.0408	1.1391 1.0662	1.0054 1.0331	Ave		1.0973			0.3000	12.9		15.0			
1,1,1,2-Tetrachloroethane	0.3664	0.3669	0.4798 0.3878	0.3734 0.3981	0.3308 0.3897	Ave		0.3866			0.0100	11.1		15.0			
Ethylbenzene	0.6855 0.5923	0.5705 0.5878	0.8053 0.5894	0.6239 0.5994	0.5487 0.5817	Ave		0.6185			0.0100	12.1		15.0			
m&p-Xylene	1.5249 1.4150	1.3655 1.4041	1.9679 1.4145	1.5125 1.4143	1.3553 1.3797	Ave		1.4754			0.0100	12.3		15.0			
o-Xylene	1.5071 1.4515	1.4731 1.4611	2.0033 1.4713	1.5498 1.4727	1.4190 1.4309	Ave		1.5240			0.0100	11.3		15.0			
Styrene	1.1285	1.1116	1.5211 1.1310	1.2539 1.1347	1.0477 1.1052	Ave		1.1792			0.0100	12.7		15.0			
Bromoform	0.1413	0.1480	0.1741 0.1675	0.1455 0.1674	0.1252 0.1731	Ave		0.1553			0.1000	11.5		15.0			
Isopropylbenzene	3.4858	3.4318	4.7871 3.5483	3.8520 3.6788	3.4508 3.5404	Ave		3.7219			0.0100	12.1		15.0			
Bromobenzene	0.8249	0.7952	1.1282 0.8286	0.9218 0.8614	0.8321 0.8369	Ave		0.8786			0.0100	12.2		15.0			
1,1,2,2-Tetrachloroethane	0.4176	0.3950	0.6101 0.4272	0.5029 0.4304	0.4246 0.4286	Lin2	0.1908	0.4118			0.3000				0.9980		0.9900
1,2,3-Trichloropropane	0.4598	0.4474	0.4833 0.4716	0.5363 0.4916	0.4380 0.4934	Ave		0.4777			0.0100	6.5		15.0			
trans-1,4-Dichloro-2-butene	0.1557	0.1572	0.2023 0.1661	0.1751 0.1725	0.1549 0.1686	Ave		0.1690			0.0100	9.2		15.0			
N-Propylbenzene	4.1730	4.0181	5.9603 4.1230	4.5582 4.2110	4.1286 4.0344	Ave		4.4008			0.0100	14.8		15.0			
2-Chlorotoluene	2.3608	2.2755	3.5155 2.3483	2.6681 2.4381	2.3146 2.3571	Lin2	1.1057	2.2871			0.0100				0.9960		0.9900
1,3,5-Trimethylbenzene	3.0006	2.9176	4.0621 2.9766	3.1731 3.0475	2.9517 2.9124	Ave		3.1302			0.0100	12.3		15.0			
4-Chlorotoluene	2.7397	2.6230	3.8726 2.6788	3.2077 2.7557	2.7267 2.6632	Ave		2.9084			0.0100	14.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
tert-Butylbenzene	2.7957	2.7280	3.8556 2.8292	3.0764 2.8711	2.7159 2.7740	Ave		2.9557			0.0100	12.9		15.0			
1,2,4-Trimethylbenzene	3.0510	2.9799	4.0948 3.0662	3.3442 3.1285	3.0123 3.0075	Ave		3.2106			0.0100	11.7		15.0			
sec-Butylbenzene	4.0434	3.9618	5.5245 4.0653	4.3376 4.0750	3.9862 3.8786	Ave		4.2340			0.0100	12.7		15.0			
1,3-Dichlorobenzene	1.6954	1.6204	2.3626 1.7009	1.9612 1.7423	1.6346 1.6838	Ave		1.8001			0.0100	13.9		15.0			
p-Isopropyltoluene	3.5794	3.5003	4.7008 3.6040	3.7244 3.6277	3.4852 3.4269	Ave		3.7061			0.0100	11.1		15.0			
1,4-Dichlorobenzene	1.6607	1.5874	2.3665 1.6551	1.7827 1.6954	1.5578 1.6453	Ave		1.7439			0.0100	14.9		15.0			
1,2-Dichlorobenzene	1.4458	1.3925	2.0122 1.4527	1.6010 1.4736	1.3839 1.4169	Ave		1.5223			0.0100	13.7		15.0			
n-Butylbenzene	3.0890	3.0487	4.1233 3.1541	3.3676 3.1271	2.9788 2.9340	Ave		3.2278			0.0100	11.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0616	0.0604	+++++ 0.0679	0.0605 0.0666	0.0687 0.0672	Ave		0.0647			0.0100	5.7		15.0			
1,2,4-Trichlorobenzene	0.9906	0.9766	1.2998 1.0368	1.0997 1.0207	0.9163 0.9451	Ave		1.0357			0.0100	11.7		15.0			
Hexachlorobutadiene	0.6766	0.6718	0.9377 0.6861	0.7609 0.6653	0.6604 0.6196	Ave		0.7098			0.0100	14.1		15.0			
Naphthalene	1.3507	1.3955	1.7701 1.5273	1.4909 1.4907	1.2240 1.4032	Ave		1.4566			0.0100	10.9		15.0			
1,2,3-Trichlorobenzene	0.7587	0.7559	1.0106 0.8093	0.8590 0.7879	0.6934 0.7184	Ave		0.7991			0.0100	12.5		15.0			
Dibromofluoromethane	0.2532	0.2633	0.2680	0.2726	0.2660	Ave		0.2646			0.0100	2.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2506	0.2542	0.2589	0.2646	0.2651	Ave		0.2587			0.0100	2.5		15.0			
Toluene-d8 (Surr)	1.3204	1.3563	1.3963	1.4034	1.3716	Ave		1.3696			0.0100	2.4		15.0			
4-Bromofluorobenzene (Surr)	0.9932	0.9432	0.9876	1.0243	0.9854	Ave		0.9867			0.0100	2.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave			4494	8617	20730			1.00	2.00	5.00
			81700	272116	527601	775138	1061995	20.0	50.0	100	150	200
Chloromethane	FB	Ave			8429	14166	30407			1.00	2.00	5.00
			120142	336875	674171	991831	1386497	20.0	50.0	100	150	200
Vinyl chloride	FB	Lin2	2527	3516	6881	13310	27348	0.250	0.500	1.00	2.00	5.00
			109889	305131	604942	897571	1227798	20.0	50.0	100	150	200
Butadiene	FB	Ave			8254	12711	29843			1.00	2.00	5.00
			118412	332358	667705	996872	1372905	20.0	50.0	100	150	200
Bromomethane	FB	Lin2			3065	5130	10328			1.00	2.00	5.00
			37607	96111	193959	288419	416245	20.0	50.0	100	150	200
Chloroethane	FB	Ave			3574	5694	14338			1.00	2.00	5.00
			55755	135433	277550	415683	599785	20.0	50.0	100	150	200
Dichlorofluoromethane	FB	Ave			9870	16853	40525			1.00	2.00	5.00
			153756	391107	772426	1129805	1562454	20.0	50.0	100	150	200
Trichlorofluoromethane	FB	Ave			8810	16670	34360			1.00	2.00	5.00
			137633	367395	713643	1059463	1450310	20.0	50.0	100	150	200
Ethyl ether	FB	Ave			3171	6568	15420			1.00	2.00	5.00
			63149	162953	339452	500438	668978	20.0	50.0	100	150	200
Acrolein	FB	Ave			12902	23332	56091			40.0	80.0	200
			242776	637851	1281902	1915013	2604613	800	2000	4000	6000	8000
1,1-Dichloroethene	FB	Ave			4546	9738	22528			1.00	2.00	5.00
			89606	228803	456181	693260	914221	20.0	50.0	100	150	200
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave			5148	9888	22445			1.00	2.00	5.00
			94835	247497	481780	715425	960098	20.0	50.0	100	150	200
Acetone	FB	Ave			+++++	+++++	4395			+++++	+++++	5.00
			13388	34308	70846	105095	144039	20.0	50.0	100	150	200
Iodomethane	FB	Ave			8590	18163	38958			1.00	2.00	5.00
			163760	425176	857408	1282816	1694761	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Carbon disulfide	FB	Ave	281113	756356	16222 1539407	29977 2278552	67873 3024082	20.0	50.0	1.00 100	2.00 150	5.00 200
3-Chloropropene	FB	Ave	53644	139927	2927 267341	5703 404491	13211 514612	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl acetate	FB	Ave	182964	461931	10371 983993	20462 1441283	43681 1958229	100	250	5.00 500	10.0 750	25.0 1000
Methylene Chloride	FB	Ave	87843	223357	+++++ 441233	+++++ 658706	22221 865146	20.0	50.0	+++++ 100	+++++ 150	5.00 200
tert-Butyl alcohol	TBAd 9	Ave	44126	105305	+++++ 221896	4975 330674	9504 439795	200	500	+++++ 1000	20.0 1500	50.0 2000
Acrylonitrile	FB	Ave	188336	486981	11780 1008539	21559 1497067	43933 2032201	200	500	10.0 1000	20.0 1500	50.0 2000
trans-1,2-Dichloroethene	FB	Ave	96622	247445	5450 484469	10772 717405	23487 946972	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl tert-butyl ether	FB	Ave	166346	420529	10497 856864	17374 1264809	38541 1697581	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexane	FB	Ave	168669	447347	10001 893243	18748 1354731	40656 1797062	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloroethane	FB	Ave	184372	463937	9972 944075	19840 1425060	43354 1885420	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl acetate	FB	Ave	108899	274781	6442 569580	12460 904001	25808 1230286	20.0	50.0	1.00 100	2.00 150	5.00 200
2,2-Dichloropropane	FB	Ave	109238	274726	6142 530587	12209 768970	27362 995454	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,2-Dichloroethene	FB	Ave	101874	256370	5779 513610	10495 765209	24059 1012515	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl Ethyl Ketone	FB	Ave	20908	53426	+++++ 102095	+++++ 154325	5274 211058	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Bromochloromethane	FB	Ave	41021	102218	2256 214726	4347 315622	10011 422477	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrahydrofuran	FB	Lin2	29255	68078	+++++ 140204	4660 210363	7654 286010	40.0	100	+++++ 200	4.00 300	10.0 400
Chloroform	FB	Ave	148141	372573	9297 752011	16087 1142376	35358 1511411	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,1-Trichloroethane	FB	Ave	134251	348782	7980 699595	14409 1028320	32311 1372930	20.0	50.0	1.00 100	2.00 150	5.00 200
Cyclohexane	FB	Ave	216395	562502	12072 1118318	22582 1678279	53827 2254682	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloropropene	FB	Ave	118509	301684	6454 597260	12691 903310	28779 1185625	20.0	50.0	1.00 100	2.00 150	5.00 200
Carbon tetrachloride	FB	Ave	118670	316472	6656 638700	12134 957861	28600 1268130	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isobutyl alcohol	TBAd 9	Ave	47449	121739	+++++ 256767	5852 379845	10878 516284	500	1250	+++++ 2500	50.0 3750	125 5000
Benzene	FB	Ave	4322 335016	8707 847471	18957 1716482	36301 2592258	80864 3386318	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloroethane	FB	Ave	102909	259491	5710 536135	10930 802623	23507 1074681	20.0	50.0	1.00 100	2.00 150	5.00 200
Heptane	FB	Ave	165708	436764	9948 870212	18534 1345711	41785 1765681	20.0	50.0	1.00 100	2.00 150	5.00 200
Trichloroethene	FB	Ave	1273 96750	2654 244484	5518 493280	9747 746200	22491 985429	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Methylcyclohexane	FB	Ave	184812	469084	10188 920502	19647 1372161	44931 1805649	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloropropane	FB	Ave	87032	222854	5425 451436	9284 693362	21014 913964	20.0	50.0	1.00 100	2.00 150	5.00 200
Dibromomethane	FB	Ave	35538	91089	2127 185247	3949 279814	8174 370367	20.0	50.0	1.00 100	2.00 150	5.00 200
1,4-Dioxane	DXE	Ave	8563	19097	+++++ 41154	+++++ 62699	2043 79073	400	1000	+++++ 2000	+++++ 3000	100 4000
Bromodichloromethane	FB	Ave	86406	226010	5522 466445	8554 725445	20839 962188	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Chloroethyl vinyl ether	CBNZ d5	Ave	29172	71633	1900 146114	3221 224705	6935 306734	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,3-Dichloropropene	CBNZ d5	Ave	108674	276998	6440 561271	11080 866161	25285 1150948	20.0	50.0	1.00 100	2.00 150	5.00 200
methyl isobutyl ketone	CBNZ d5	Ave	46539	116399	+++++ 229053	+++++ 345903	11794 473140	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Toluene	CBNZ d5	Ave	2923 197663	4902 492442	13227 1003686	21132 1530063	47727 2020225	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
trans-1,3-Dichloropropene	CBNZ d5	Ave	86409	214741	5800 437551	9188 665032	21432 891201	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethyl methacrylate	CBNZ d5	Lin2	61111	144793	4717 292943	6724 436487	15482 585681	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloroethane	CBNZ d5	Ave	46098	112325	3464 234406	5080 353136	11856 475288	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrachloroethene	CBNZ d5	Ave	98599	250004	5964 489260	10551 755618	23569 987214	20.0	50.0	1.00 100	2.00 150	5.00 200
1,3-Dichloropropane	CBNZ d5	Ave	82025	200846	5256 406391	9229 617105	20609 810185	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Hexanone	CBNZ d5	Ave	31482	79377	+++++ 149581	+++++ 222613	8059 302771	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Dibromochloromethane	CBNZ d5	Ave	56685	151435	3714 315790	6162 486428	13753 655275	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Dibromoethane	CBNZ	Ave			3079	5705	11878			1.00	2.00	5.00
	d5		47581	118442	240318	362820	486421	20.0	50.0	100	150	200
Chlorobenzene	CBNZ	Ave			17142	25942	58091			1.00	2.00	5.00
	d5		231158	587653	1155483	1783602	2316648	20.0	50.0	100	150	200
1,1,1,2-Tetrachloroethane	CBNZ	Ave			5734	8504	19110			1.00	2.00	5.00
	d5		82427	208912	430534	665912	873975	20.0	50.0	100	150	200
Ethylbenzene	CBNZ	Ave	2000	3289	9624	14208	31705	0.250	0.500	1.00	2.00	5.00
	d5		133251	334739	654389	1002770	1304396	20.0	50.0	100	150	200
m&p-Xylene	CBNZ	Ave	4449	7873	23517	34445	78305	0.250	0.500	1.00	2.00	5.00
	d5		318336	799570	1570381	2365982	3093823	20.0	50.0	100	150	200
o-Xylene	CBNZ	Ave	4397	8493	23940	35294	81986	0.250	0.500	1.00	2.00	5.00
	d5		326547	832050	1633419	2463745	3208794	20.0	50.0	100	150	200
Styrene	CBNZ	Ave			18178	28555	60534			1.00	2.00	5.00
	d5		253871	633051	1255558	1898183	2478330	20.0	50.0	100	150	200
Bromoform	CBNZ	Ave			2081	3313	7231			1.00	2.00	5.00
	d5		31783	84269	185997	279997	388152	20.0	50.0	100	150	200
Isopropylbenzene	DCBd	Ave			31832	49255	109768			1.00	2.00	5.00
	4		445645	1119416	2208656	3320949	4287635	20.0	50.0	100	150	200
Bromobenzene	DCBd	Ave			7502	11787	26468			1.00	2.00	5.00
	4		105458	259390	515768	777571	1013502	20.0	50.0	100	150	200
1,1,2,2-Tetrachloroethane	DCBd	Lin2			4057	6431	13507			1.00	2.00	5.00
	4		53394	128840	265906	388572	519097	20.0	50.0	100	150	200
1,2,3-Trichloropropane	DCBd	Ave			3214	6858	13934			1.00	2.00	5.00
	4		58789	145921	293535	443741	597569	20.0	50.0	100	150	200
trans-1,4-Dichloro-2-butene	DCBd	Ave			1345	2239	4927			1.00	2.00	5.00
	4		19904	51269	103376	155723	204185	20.0	50.0	100	150	200
N-Propylbenzene	DCBd	Ave			39633	58286	131329			1.00	2.00	5.00
	4		533504	1310644	2566380	3801360	4885915	20.0	50.0	100	150	200
2-Chlorotoluene	DCBd	Lin2			23376	34117	73626			1.00	2.00	5.00
	4		301823	742252	1461715	2200917	2854571	20.0	50.0	100	150	200
1,3,5-Trimethylbenzene	DCBd	Ave			27011	40574	93893			1.00	2.00	5.00
	4		383613	951676	1852778	2751022	3527054	20.0	50.0	100	150	200
4-Chlorotoluene	DCBd	Ave			25751	41017	86734			1.00	2.00	5.00
	4		350259	855588	1667450	2487588	3225245	20.0	50.0	100	150	200
tert-Butylbenzene	DCBd	Ave			25638	39338	86392			1.00	2.00	5.00
	4		357420	889840	1761077	2591771	3359443	20.0	50.0	100	150	200
1,2,4-Trimethylbenzene	DCBd	Ave			27228	42762	95821			1.00	2.00	5.00
	4		390056	972016	1908558	2824184	3642256	20.0	50.0	100	150	200
sec-Butylbenzene	DCBd	Ave			36735	55465	126798			1.00	2.00	5.00
	4		516926	1292282	2530460	3678597	4697182	20.0	50.0	100	150	200
1,3-Dichlorobenzene	DCBd	Ave			15710	25078	51997			1.00	2.00	5.00
	4		216750	528543	1058714	1572809	2039179	20.0	50.0	100	150	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
p-Isopropyltoluene	DCBd 4	Ave	457613	1141738	31258 2243353	47624 3274818	110862 4150107	20.0	50.0	1.00 100	2.00 150	5.00 200
1,4-Dichlorobenzene	DCBd 4	Ave	212318	517781	15736 1030219	22795 1530441	49553 1992490	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dichlorobenzene	DCBd 4	Ave	184844	454217	13380 904238	20472 1330213	44020 1715886	20.0	50.0	1.00 100	2.00 150	5.00 200
n-Butylbenzene	DCBd 4	Ave	394914	994436	27418 1963275	43061 2822903	94755 3553266	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	7872	19714	+++++ 42234	774 60110	2184 81341	20.0	50.0	+++++ 100	2.00 150	5.00 200
1,2,4-Trichlorobenzene	DCBd 4	Ave	126644	318543	8643 645373	14062 921392	29148 1144526	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexachlorobutadiene	DCBd 4	Ave	86502	219148	6235 427080	9729 600596	21008 750421	20.0	50.0	1.00 100	2.00 150	5.00 200
Naphthalene	DCBd 4	Ave	172680	455189	11770 950708	19064 1345710	38936 1699293	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2,3-Trichlorobenzene	DCBd 4	Ave	96998	246565	6720 503726	10984 711241	22057 869993	20.0	50.0	1.00 100	2.00 150	5.00 200
Dibromofluoromethane	FB	Ave	80718	211073	427416	648559	838574	20.0	50.0	100	150	200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	79875	203800	412779	629613	835861	20.0	50.0	100	150	200
Toluene-d8 (Surr)	CBNZ d5	Ave	297039	772381	1550106	2347763	3075705	20.0	50.0	100	150	200
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	126981	307658	614724	924613	1193401	20.0	50.0	100	150	200

Curve Type Legend:
Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Dichlorodifluoromethane	13.2	10.4	-7.8 8.7	-9.1 12.3	-13.1	-14.5	30	30	50 30	30 30	30	30
Chloromethane	-1.8	-1.2	21.1 -2.6	4.6 2.7	-10.8	-12.0	30	30	50 30	30 30	30	30
Vinyl chloride	6.3 3.9	-12.4 3.7	-1.7 3.2	6.5 6.5	-9.4	-6.5	50 30	30 30	30 30	30 30	30	30
Butadiene	-0.8	0.2	21.4 0.2	-3.8 4.2	-10.3	-11.1	30	30	50 30	30 30	30	30
Bromomethane	-2.2	-0.2	-1.5 -0.3	5.3 8.7	-4.3	-5.5	30	30	50 30	30 30	30	30
Chloroethane	-7.6	-4.8	20.2 -4.5	-1.5 4.0	-1.5	-4.3	30	30	50 30	30 30	30	30
Dichlorofluoromethane	-4.2	-4.9	19.2 -6.8	4.6 -2.7	0.0	-5.3	30	30	50 30	30 30	30	30
Trichlorofluoromethane	-2.1	-4.4	15.8 -4.8	12.6 -1.7	-7.7	-7.7	30	30	50 30	30 30	30	30
Ethyl ether	-0.4	4.3	-4.5 3.0	1.7 3.9	-5.1	-3.0	30	30	50 30	30 30	30	30
Acrolein	2.2	3.3	1.9 3.4	-5.2 6.1	-9.5	-2.2	30	30	50 30	30 30	30	30
1,1-Dichloroethene	-0.9	-0.7	-3.0 1.1	6.9 0.7	-1.7	-2.4	30	30	50 30	30 30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	-0.3	4.4 -0.8	3.2 0.5	-7.0	-1.8	30	30	50 30	30 30	30	30
Acetone	-6.4	-2.8	+++++ -3.4	+++++ -0.1	20.8	-8.1	30	30	30	30	50	30
Iodomethane	-0.2	1.2	-0.6 1.5	8.1 1.2	-7.9	-3.3	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Carbon disulfide	0.6	2.9	6.3 2.1	1.0 2.2	-9.1	-6.0	30	30	50 30	30 30	30	30
3-Chloropropene	1.9	-2.1	5.1 -0.7	5.3 -4.7	-3.1	-1.7	30	30	50 30	30 30	30	30
Methyl acetate	-4.5	2.3	5.7 0.4	7.2 2.9	-9.1	-4.9	30	30	50 30	30 30	30	30
Methylene Chloride	0.6	-0.1	+++++ 0.0	+++++ -0.9	0.8	-0.5	30	30	30	30	50	30
tert-Butyl alcohol	-3.9	3.2	+++++ 0.4	6.4 0.4	-10.8	4.3	30	30	30	50 30	30	30
Acrylonitrile	-4.0	-0.1	14.5 -0.6	7.7 1.9	-12.8	-6.6	30	30	50 30	30 30	30	30
trans-1,2-Dichloroethene	-0.8	-2.3	7.7 -3.1	9.5 -3.4	-5.1	-2.5	30	30	50 30	30 30	30	30
Methyl tert-butyl ether	-3.1	-0.8	19.2 -1.9	1.4 -0.6	-10.6	-3.7	30	30	50 30	30 30	30	30
Hexane	-0.9	-0.5	9.2 1.1	5.3 1.2	-9.3	-6.0	30	30	50 30	30 30	30	30
1,1-Dichloroethane	-2.1	0.1	3.7 1.3	6.1 1.1	-7.9	-2.2	30	30	50 30	30 30	30	30
Vinyl acetate	-6.3	-2.3	8.3 3.9	7.7 6.7	-11.3	-6.6	30	30	50 30	30 30	30	30
2,2-Dichloropropane	-0.8	-3.7	9.3 -6.5	11.7 -8.6	-0.5	-0.8	30	30	50 30	30 30	30	30
cis-1,2-Dichloroethene	-1.4	-0.7	9.6 -0.8	2.4 -0.9	-6.8	-1.4	30	30	50 30	30 30	30	30
Methyl Ethyl Ketone	1.4	-2.6	+++++ -1.3	+++++ 1.9	0.8	-0.2	30	30	30	30	50	30
Bromochloromethane	-3.7	1.7	4.8 0.2	3.8 1.2	-5.0	-2.8	30	30	50 30	30 30	30	30
Tetrahydrofuran	-3.0	1.9	+++++ 2.9	5.5 5.8	-14.1	1.0	30	30	30	50 30	30	30
Chloroform	-4.3	-2.9	17.7 -1.1	4.7 -1.3	-8.5	-4.3	30	30	50 30	30 30	30	30
1,1,1-Trichloroethane	-1.0	-0.1	11.7 -1.6	3.7 -0.9	-7.6	-4.1	30	30	50 30	30 30	30	30
Cyclohexane	-0.4	-0.4	5.4 0.1	1.4 1.5	-4.0	-3.6	30	30	50 30	30 30	30	30
1,1-Dichloropropene	-0.9	-1.4	4.5 0.0	5.7 -1.0	-4.8	-2.1	30	30	50 30	30 30	30	30
Carbon tetrachloride	1.1	2.6	4.8 3.1	-1.8 3.0	-8.0	-4.7	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Isobutyl alcohol			+++++	9.1	-11.0	-2.3				50	30	30
	-3.2	4.1	0.6	2.8			30	30	30	30		
Benzene	1.2	1.8	7.1	5.4	-6.7	-3.5	50	30	30	30	30	30
	-2.9	-1.1	0.1	-1.4			30	30	30	30		
1,2-Dichloroethane			5.9	4.2	-10.9	-2.7			50	30	30	30
	-2.4	1.4	1.7	2.8			30	30	30	30		
Heptane			9.8	5.2	-5.8	-6.7			50	30	30	30
	-2.2	-2.1	1.5	0.5			30	30	30	30		
Trichloroethene	3.5	7.8	8.2	-1.7	-9.9	-3.2	50	30	30	30	30	30
	-2.8	-1.4	0.0	-0.4			30	30	30	30		
Methylcyclohexane			6.6	5.7	-4.0	-1.4			50	30	30	30
	-0.5	-1.8	-1.9	-2.6			30	30	30	30		
1,2-Dichloropropane			15.7	1.8	-8.4	-5.3			50	30	30	30
	-3.6	-1.8	1.1	0.5			30	30	30	30		
Dibromomethane			11.9	6.9	-12.1	-4.6			50	30	30	30
	-2.8	-0.6	0.6	0.5			30	30	30	30		
1,4-Dioxane			+++++	+++++	6.2	11.3					50	30
	-4.4	0.3	-0.1	-13.2			30	30	30	30		
Bromodichloromethane			16.7	-7.0	-10.0	-6.8			50	30	30	30
	-3.1	0.5	4.8	4.9			30	30	30	30		
2-Chloroethyl vinyl ether			17.9	4.9	-11.0	-3.8			50	30	30	30
	-6.7	-2.4	-0.4	1.4			30	30	30	30		
cis-1,3-Dichloropropene			8.6	-1.9	-11.8	-2.6			50	30	30	30
	-2.0	1.9	4.4	3.4			30	30	30	30		
methyl isobutyl ketone			+++++	+++++	-1.2	0.1					50	30
	-1.1	-0.1	0.1	2.1			30	30	30	30		
Toluene	9.2	-7.3	20.6	1.1	-10.0	-4.2	50	30	30	30	30	30
	-5.8	-1.5	-0.3	-1.8			30	30	30	30		
trans-1,3-Dichloropropene			21.0	0.5	-7.6	-4.3			50	30	30	30
	-6.0	-1.8	-0.9	-1.0			30	30	30	30		
Ethyl methacrylate			5.3	-9.0	-5.0	3.8			50	30	30	30
	-1.5	2.7	1.7	1.9			30	30	30	30		
1,1,2-Trichloroethane			32.2	1.7	-6.4	-6.6			50	30	30	30
	-10.1	-3.7	-3.7	-3.4			30	30	30	30		
Tetrachloroethene			11.5	3.5	-8.8	-2.1			50	30	30	30
	-1.9	-1.5	0.9	-1.6			30	30	30	30		
1,3-Dichloropropane			16.7	7.5	-5.4	-3.3			50	30	30	30
	-6.4	-2.9	-2.1	-4.1			30	30	30	30		
2-Hexanone			+++++	+++++	1.9	2.2					50	30
	1.8	-1.6	-2.8	-1.4			30	30	30	30		
Dibromochloromethane			12.8	-1.8	-13.6	-8.6			50	30	30	30
	-3.5	3.2	5.5	6.0			30	30	30	30		

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
1,2-Dibromoethane			15.6	12.4	-7.8	-5.1			50	30	30	30
	-6.7	-2.9	-2.7	-2.7			30	30	30	30		
Chlorobenzene			30.7	3.8	-8.4	-6.4			50	30	30	30
	-6.0	-5.1	-2.8	-5.9			30	30	30	30		
1,1,1,2-Tetrachloroethane			24.1	-3.4	-14.4	-5.2			50	30	30	30
	-5.1	0.3	3.0	0.8			30	30	30	30		
Ethylbenzene	10.8	-7.8	30.2 *	0.9	-11.3	-4.2	50	30	30	30	30	30
	-5.0	-4.7	-3.1	-5.9			30	30	30	30		
m&p-Xylene	3.4	-7.4	33.4 *	2.5	-8.1	-4.1	50	30	30	30	30	30
	-4.8	-4.1	-4.1	-6.5			30	30	30	30		
o-Xylene	-1.1	-3.3	31.5 *	1.7	-6.9	-4.8	50	30	30	30	30	30
	-4.1	-3.5	-3.4	-6.1			30	30	30	30		
Styrene			29.0	6.3	-11.2	-4.3			50	30	30	30
	-5.7	-4.1	-3.8	-6.3			30	30	30	30		
Bromoform			12.2	-6.3	-19.4	-9.0			50	30	30	30
	-4.7	7.9	7.8	11.5			30	30	30	30		
Isopropylbenzene			28.6	3.5	-7.3	-6.3			50	30	30	30
	-7.8	-4.7	-1.2	-4.9			30	30	30	30		
Bromobenzene			28.4	4.9	-5.3	-6.1			50	30	30	30
	-9.5	-5.7	-2.0	-4.8			30	30	30	30		
1,1,2,2-Tetrachloroethane			1.8	-1.0	-6.2	-0.9			50	30	30	30
	-5.0	3.3	4.2	3.8			30	30	30	30		
1,2,3-Trichloropropane			1.2	12.3	-8.3	-3.7			50	30	30	30
	-6.3	-1.3	2.9	3.3			30	30	30	30		
trans-1,4-Dichloro-2-butene			19.7	3.6	-8.4	-7.9			50	30	30	30
	-7.0	-1.8	2.1	-0.3			30	30	30	30		
N-Propylbenzene			35.4	3.6	-6.2	-5.2			50	30	30	30
	-8.7	-6.3	-4.3	-8.3			30	30	30	30		
2-Chlorotoluene			5.4	-7.5	-8.5	0.8			50	30	30	30
	-1.5	2.2	6.3	2.8			30	30	30	30		
1,3,5-Trimethylbenzene			29.8	1.4	-5.7	-4.1			50	30	30	30
	-6.8	-4.9	-2.6	-7.0			30	30	30	30		
4-Chlorotoluene			33.2	10.3	-6.2	-5.8			50	30	30	30
	-9.8	-7.9	-5.3	-8.4			30	30	30	30		
tert-Butylbenzene			30.4	4.1	-8.1	-5.4			50	30	30	30
	-7.7	-4.3	-2.9	-6.1			30	30	30	30		
1,2,4-Trimethylbenzene			27.5	4.2	-6.2	-5.0			50	30	30	30
	-7.2	-4.5	-2.6	-6.3			30	30	30	30		
sec-Butylbenzene			30.5	2.4	-5.9	-4.5			50	30	30	30
	-6.4	-4.0	-3.8	-8.4			30	30	30	30		
1,3-Dichlorobenzene			31.2	8.9	-9.2	-5.8			50	30	30	30
	-10.0	-5.5	-3.2	-6.5			30	30	30	30		

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136132-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
p-Isopropyltoluene	-5.6	-2.8	26.8 -2.1	0.5 -7.5	-6.0	-3.4	30	30	50 30	30 30	30	30
1,4-Dichlorobenzene	-9.0	-5.1	35.7 -2.8	2.2 -5.7	-10.7	-4.8	30	30	50 30	30 30	30	30
1,2-Dichlorobenzene	-8.5	-4.6	32.2 -3.2	5.2 -6.9	-9.1	-5.0	30	30	50 30	30 30	30	30
n-Butylbenzene	-5.6	-2.3	27.7 -3.1	4.3 -9.1	-7.7	-4.3	30	30	50 30	30 30	30	30
1,2-Dibromo-3-Chloropropane	-6.6	4.9	+++++ 2.9	-6.4 3.8	6.1	-4.8	30	30	30	50 30	30	30
1,2,4-Trichlorobenzene	-5.7	0.1	25.5 -1.4	6.2 -8.8	-11.5	-4.4	30	30	50 30	30 30	30	30
Hexachlorobutadiene	-5.3	-3.3	32.1 -6.3	7.2 -12.7	-7.0	-4.7	30	30	50 30	30 30	30	30
Naphthalene	-4.2	4.9	21.5 2.3	2.4 -3.7	-16.0	-7.3	30	30	50 30	30 30	30	30
1,2,3-Trichlorobenzene	-5.4	1.3	26.5 -1.4	7.5 -10.1	-13.2	-5.1	30	30	50 30	30 30	30	30
Dibromofluoromethane	-0.5	1.3	3.0	0.5		-4.3	30	30	30	30		50
1,2-Dichloroethane-d4 (Surr)	-1.7	0.1	2.3	2.5		-3.1	30	30	30	30		50
Toluene-d8 (Surr)	-1.0	1.9	2.5	0.1		-3.6	30	30	30	30		50
4-Bromofluorobenzene (Surr)	-4.4	0.1	3.8	-0.1		0.7	30	30	30	30		50

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705A.d
Lims ID: STD01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Jul-2017 13:26:30 ALS Bottle#: 3 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD01
Misc. Info.: 500-0046351-002
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:03:51 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:03:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.891	1.891	0.000	25	2527	0.2500	0.2658	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175728	1000.0	1000.0	
49 Benzene	78	5.855	5.861	-0.006	58	4322	0.2500	0.2530	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	784359	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	25	1273	0.2500	0.2587	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18293	1000.0	1000.0	
71 Toluene	92	7.878	7.872	0.006	46	2923	0.2500	0.2730	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	583516	50.0	50.0	
85 Ethylbenzene	106	9.590	9.584	0.006	46	2000	0.2500	0.2771	
86 m-Xylene & p-Xylene	91	9.745	9.739	0.006	54	4449	0.2500	0.2584	
87 o-Xylene	91	10.296	10.296	0.000	45	4397	0.2500	0.2472	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	95	326102	50.0	50.0	
S 123 Xylenes, Total	100				0			0.5056	

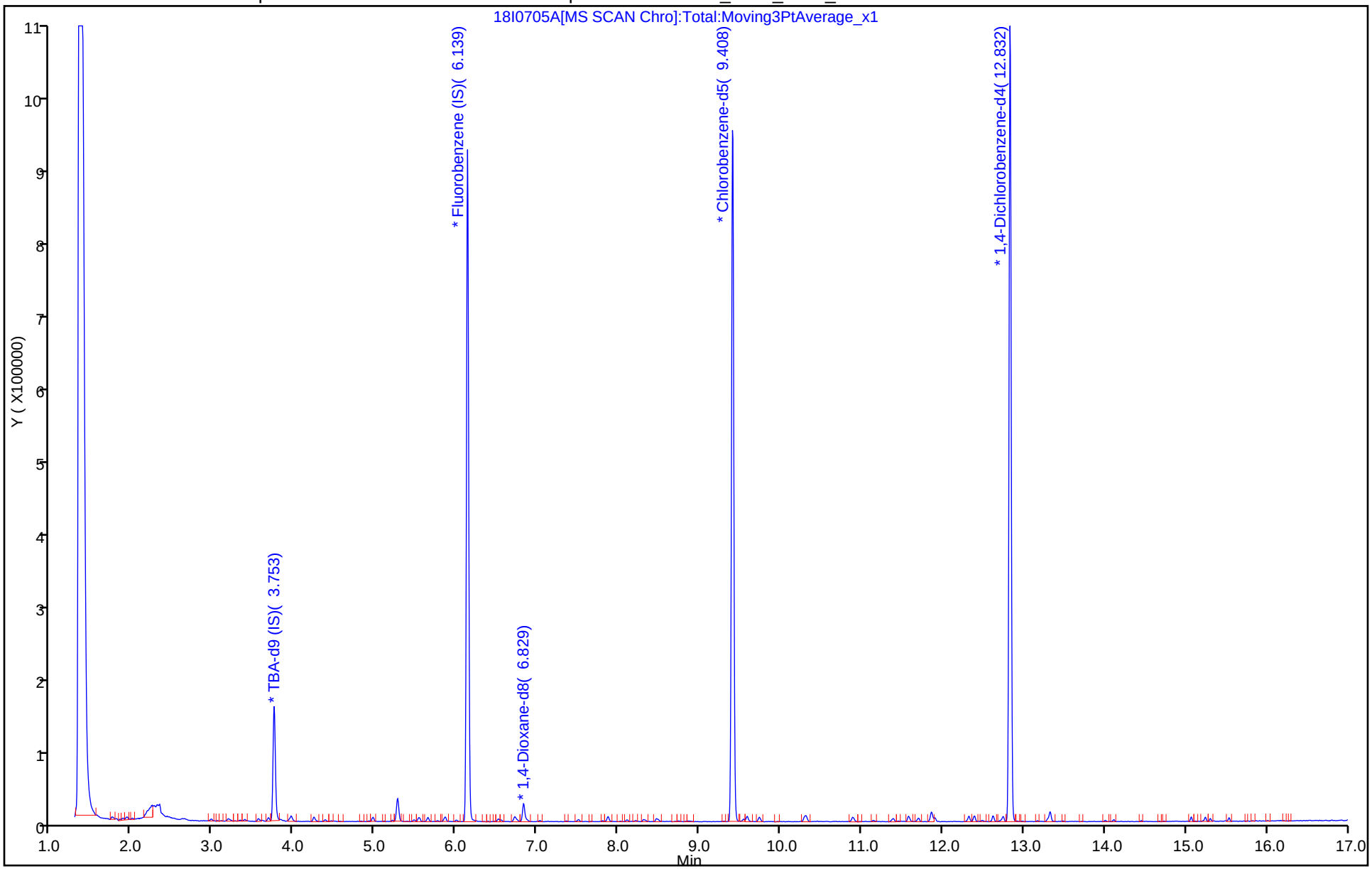
Reagents:

LEVEL1 8260_00001 Amount Added: 2.50 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:03:52 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705A.d				
Injection Date:	05-Jul-2017 13:26:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD01			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705B.d
Lims ID: STD02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Jul-2017 13:52:30 ALS Bottle#: 4 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD02
Misc. Info.: 500-0046351-003
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:21 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.886	1.891	-0.005	41	3516	0.5000	0.4379	
* 22 TBA-d9 (IS)	65	3.732	3.753	-0.021	0	182037	1000.0	1000.0	
49 Benzene	78	5.861	5.861	0.000	89	8707	0.5000	0.5092	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	785119	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	66	2654	0.5000	0.5388	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17950	1000.0	1000.0	
71 Toluene	92	7.872	7.872	0.000	55	4902	0.5000	0.4633	
* 81 Chlorobenzene-d5	117	9.408	9.413	-0.005	88	576557	50.0	50.0	
85 Ethylbenzene	106	9.584	9.584	0.000	82	3289	0.5000	0.4612	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	75	7873	0.5000	0.4628	
87 o-Xylene	91	10.296	10.296	0.000	81	8493	0.5000	0.4833	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	95	316967	50.0	50.0	
S 123 Xylenes, Total	100				0			0.9461	

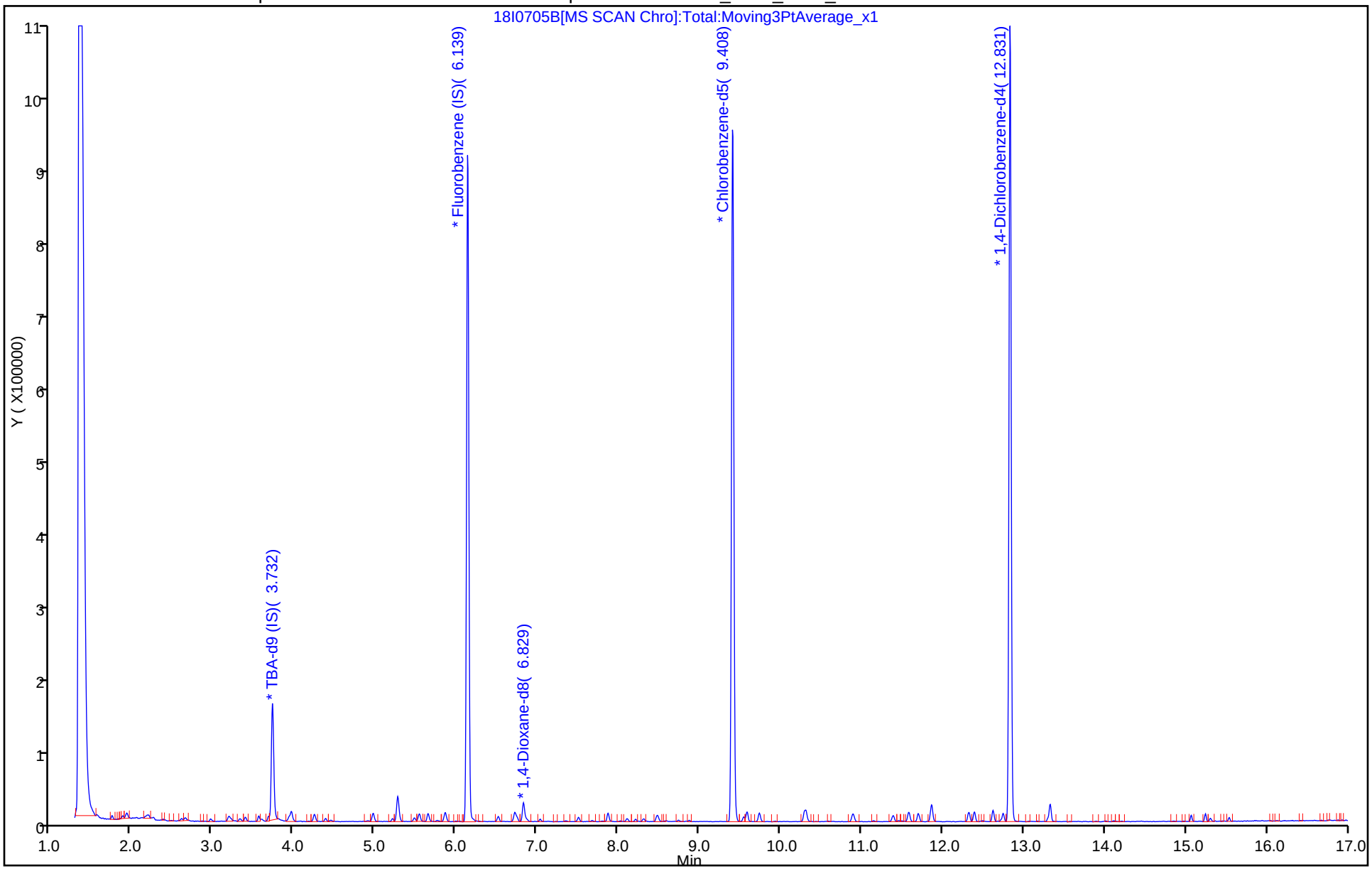
Reagents:

LEVEL1 8260_00001 Amount Added: 5.00 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:04:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705B.d				
Injection Date:	05-Jul-2017 13:52:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD02			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705C.d
Lims ID: STD03
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Jul-2017 14:16:30 ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD03
Misc. Info.: 500-0046351-004
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:27 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	52	4494	1.00	0.9217	
2 Chloromethane	50	1.752	1.752	0.000	85	8429	1.00	1.21	
3 Vinyl chloride	62	1.891	1.891	0.000	58	6881	1.00	0.9833	
4 Butadiene	39	1.934	1.940	-0.006	89	8254	1.00	1.21	
5 Bromomethane	94	2.245	2.250	-0.005	74	3065	1.00	0.9847	
6 Chloroethane	64	2.362	2.362	0.000	49	3574	1.00	1.20	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	72	9870	1.00	1.19	
8 Trichlorofluoromethane	101	2.651	2.646	0.005	69	8810	1.00	1.16	
10 Ethyl ether	59	2.977	2.972	0.005	71	3171	1.00	0.9552	
11 Acrolein	56	3.100	3.095	0.005	89	12902	40.0	40.8	
12 1,1-Dichloroethene	96	3.191	3.181	0.010	79	4546	1.00	0.9705	
13 1,1,2-Trichloro-1,2,2-trif	101	3.213	3.218	-0.005	53	5148	1.00	1.04	
15 Iodomethane	142	3.331	3.330	0.000	93	8590	1.00	0.99	
16 Carbon disulfide	76	3.395	3.389	0.006	98	16222	1.00	1.06	
19 3-Chloro-1-propene	76	3.566	3.560	0.006	84	2927	1.00	1.05	
20 Methyl acetate	43	3.598	3.593	0.005	88	10371	5.00	5.28	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	167169	1000.0	1000.0	
24 Acrylonitrile	53	3.940	3.935	0.005	92	11780	10.0	11.4	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	5450	1.00	1.08	
26 Methyl tert-butyl ether	73	3.978	3.972	0.006	83	10497	1.00	1.19	
27 Hexane	57	4.245	4.245	0.000	89	10001	1.00	1.09	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	58	9972	1.00	1.04	
29 Vinyl acetate	43	4.454	4.449	0.005	86	6442	1.00	1.08	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	46	6142	1.00	1.09	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	85	5779	1.00	1.10	
39 Chlorobromomethane	128	5.219	5.214	0.005	73	2256	1.00	1.05	
41 Chloroform	83	5.299	5.294	0.005	86	9297	1.00	1.18	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	78	7980	1.00	1.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Cyclohexane	56	5.540	5.545	-0.005	84	12072	1.00	1.05	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	70	6454	1.00	1.05	
46 Carbon tetrachloride	117	5.652	5.652	0.000	56	6656	1.00	1.05	
49 Benzene	78	5.861	5.861	0.000	90	18957	1.00	1.07	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	36	5710	1.00	1.06	
53 n-Heptane	43	6.134	6.134	0.000	37	9948	1.00	1.10	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	813104	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	69	5518	1.00	1.08	
58 Methylcyclohexane	83	6.722	6.722	0.000	90	10188	1.00	1.07	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	67	5425	1.00	1.16	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17166	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	61	2127	1.00	1.12	
65 Dichlorobromomethane	83	7.033	7.032	0.000	82	5522	1.00	1.17	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	47	1900	1.00	1.18	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	54	6440	1.00	1.09	
71 Toluene	92	7.872	7.872	0.000	86	13227	1.00	1.21	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	78	5800	1.00	1.21	
73 Ethyl methacrylate	69	8.209	8.209	0.000	62	4717	1.00	1.05	
74 1,1,2-Trichloroethane	97	8.311	8.306	0.005	58	3464	1.00	1.32	
75 Tetrachloroethene	166	8.472	8.472	0.000	78	5964	1.00	1.12	
76 1,3-Dichloropropane	76	8.498	8.493	0.005	79	5256	1.00	1.17	
79 Chlorodibromomethane	129	8.744	8.744	0.000	37	3714	1.00	1.13	
80 Ethylene Dibromide	107	8.873	8.873	0.000	53	3079	1.00	1.16	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	597515	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	48	17142	1.00	1.31	
84 1,1,1,2-Tetrachloroethane	131	9.552	9.547	0.005	64	5734	1.00	1.24	
85 Ethylbenzene	106	9.590	9.584	0.006	94	9624	1.00	1.30	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	91	23517	1.00	1.33	
87 o-Xylene	91	10.296	10.296	0.000	87	23940	1.00	1.31	
88 Styrene	104	10.317	10.317	0.000	85	18178	1.00	1.29	
89 Bromoform	173	10.590	10.590	0.000	44	2081	1.00	1.12	
90 Isopropylbenzene	105	10.895	10.895	0.000	89	31832	1.00	1.29	
94 Bromobenzene	156	11.387	11.387	0.000	87	7502	1.00	1.28	
95 1,1,2,2-Tetrachloroethane	83	11.393	11.392	0.001	29	4057	1.00	1.02	
96 1,2,3-Trichloropropane	75	11.457	11.462	-0.005	14	3214	1.00	1.01	
97 trans-1,4-Dichloro-2-buten	53	11.500	11.494	0.006	1	1345	1.00	1.20	
98 N-Propylbenzene	91	11.585	11.585	0.000	93	39633	1.00	1.35	
99 2-Chlorotoluene	91	11.703	11.697	0.006	82	23376	1.00	1.05	
101 4-Chlorotoluene	91	11.869	11.863	0.006	86	25751	1.00	1.33	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	87	27011	1.00	1.30	
103 tert-Butylbenzene	119	12.323	12.323	0.000	80	25638	1.00	1.30	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	61	27228	1.00	1.28	
106 sec-Butylbenzene	105	12.623	12.623	0.000	83	36735	1.00	1.30	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	86	15710	1.00	1.31	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	51	31258	1.00	1.27	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	96	332474	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	32	15736	1.00	1.36	
113 1,2-Dichlorobenzene	146	13.318	13.324	-0.006	85	13380	1.00	1.32	
114 n-Butylbenzene	91	13.329	13.329	0.000	91	27418	1.00	1.28	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	81	8643	1.00	1.26	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	76	6235	1.00	1.32	
119 Naphthalene	128	15.303	15.303	0.000	85	11770	1.00	1.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	75	6720	1.00	1.26	
S 123 Xylenes, Total	100				0			2.65	
S 124 Trihalomethanes, Total	1				0			4.59	
S 125 1,3-Dichloropropene, Total	1				0			2.30	
S 126 Trimethylbenzene, Total	1				0			2.57	
S 127 1,2-Dichloroethene, Total	96				0			2.17	

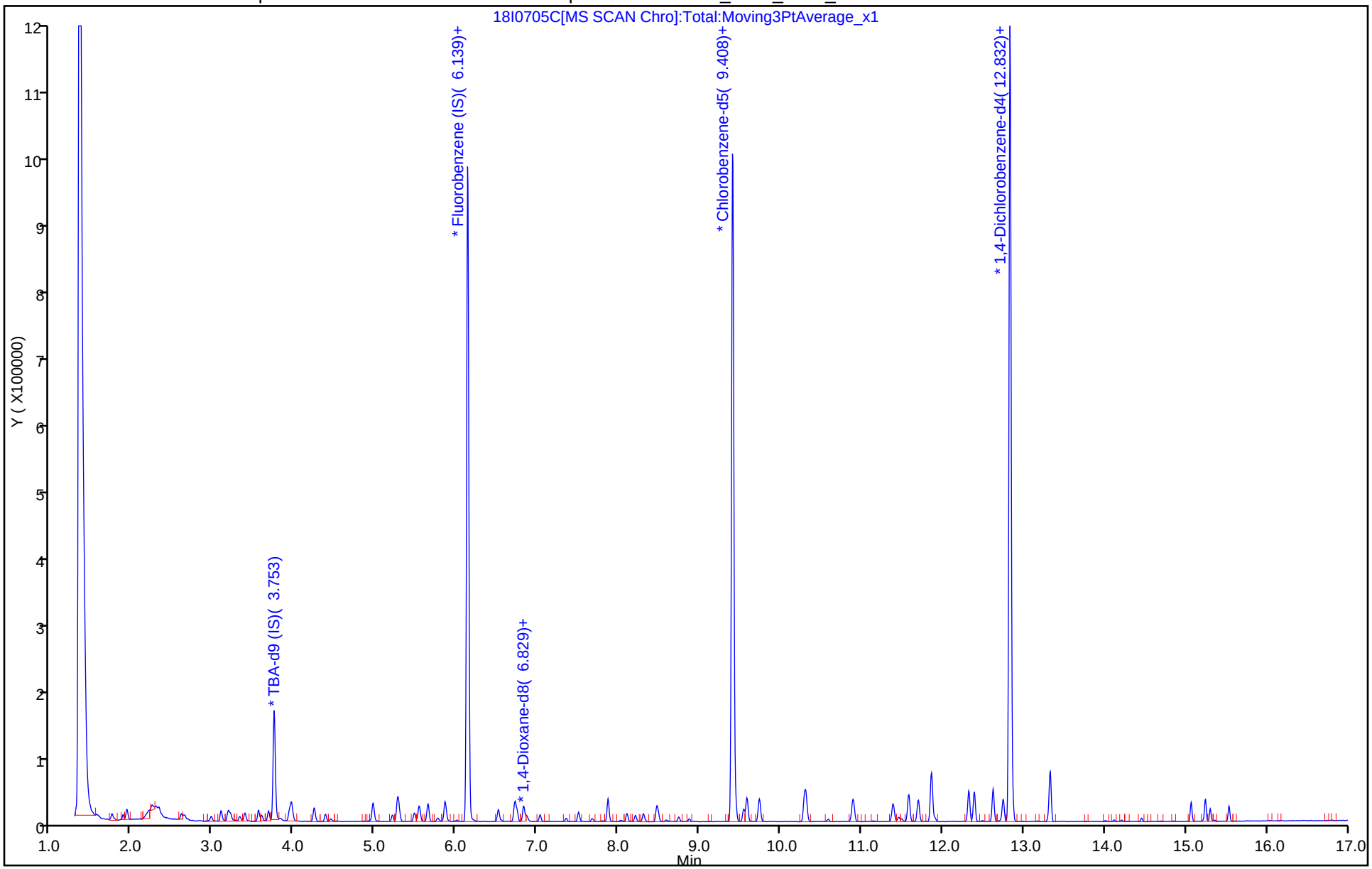
Reagents:

LOW8260ACR_00173 Amount Added: 1.00 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL
LO8260/624STD_00259 Amount Added: 1.00 Units: uL

Report Date: 05-Jul-2017 18:04:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705C.d				
Injection Date:	05-Jul-2017 14:16:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD03			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705D.d
Lims ID: STD04
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Jul-2017 14:41:30 ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD04
Misc. Info.: 500-0046351-005
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:35 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	70	8617	2.00	1.82	
2 Chloromethane	50	1.752	1.752	0.000	87	14166	2.00	2.09	
3 Vinyl chloride	62	1.886	1.891	-0.005	74	13310	2.00	2.13	
4 Butadiene	39	1.934	1.940	-0.006	83	12711	2.00	1.92	
5 Bromomethane	94	2.244	2.250	-0.006	78	5130	2.00	2.11	
6 Chloroethane	64	2.357	2.362	-0.005	41	5694	2.00	1.97	
7 Dichlorofluoromethane	67	2.603	2.608	-0.005	75	16853	2.00	2.09	
8 Trichlorofluoromethane	101	2.635	2.646	-0.011	70	16670	2.00	2.25	
10 Ethyl ether	59	2.977	2.972	0.005	85	6568	2.00	2.03	
11 Acrolein	56	3.100	3.095	0.005	80	23332	80.0	75.8	
12 1,1-Dichloroethene	96	3.180	3.181	-0.001	79	9738	2.00	2.14	
13 1,1,2-Trichloro-1,2,2-trif	101	3.207	3.218	-0.011	72	9888	2.00	2.06	
15 Iodomethane	142	3.330	3.330	0.000	94	18163	2.00	2.16	
16 Carbon disulfide	76	3.389	3.389	0.000	98	29977	2.00	2.02	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	84	5703	2.00	2.11	
20 Methyl acetate	43	3.603	3.593	0.010	94	20462	10.0	10.7	
* 22 TBA-d9 (IS)	65	3.758	3.753	0.005	0	192292	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.844	3.839	0.005	66	4975	20.0	21.3	
24 Acrylonitrile	53	3.940	3.935	0.005	97	21559	20.0	21.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	87	10772	2.00	2.19	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	79	17374	2.00	2.03	
27 Hexane	57	4.245	4.245	0.000	91	18748	2.00	2.11	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	67	19840	2.00	2.12	
29 Vinyl acetate	43	4.448	4.449	-0.001	96	12460	2.00	2.15	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	81	10495	2.00	2.05	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	66	12209	2.00	2.23	
39 Chlorobromomethane	128	5.213	5.214	-0.001	81	4347	2.00	2.08	
40 Tetrahydrofuran	42	5.267	5.267	0.000	54	4660	4.00	4.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	5.294	5.294	0.000	76	16087	2.00	2.09	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	81	14409	2.00	2.07	
44 Cyclohexane	56	5.545	5.545	0.000	90	22582	2.00	2.03	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	78	12691	2.00	2.11	
46 Carbon tetrachloride	117	5.652	5.652	0.000	79	12134	2.00	1.96	
47 Isobutyl alcohol	43	5.775	5.770	0.005	65	5852	50.0	54.6	
49 Benzene	78	5.861	5.861	0.000	96	36301	2.00	2.11	
50 1,2-Dichloroethane	62	5.877	5.872	0.005	76	10930	2.00	2.08	
53 n-Heptane	43	6.134	6.134	0.000	37	18534	2.00	2.10	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	790635	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	88	9747	2.00	1.97	
58 Methylcyclohexane	83	6.722	6.722	0.000	92	19647	2.00	2.11	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	9284	2.00	2.04	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	22057	1000.0	1000.0	
63 Dibromomethane	93	6.861	6.867	-0.006	72	3949	2.00	2.14	
65 Dichlorobromomethane	83	7.032	7.032	0.000	77	8554	2.00	1.86	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	57	3221	2.00	2.10	
68 cis-1,3-Dichloropropene	75	7.508	7.509	-0.001	66	11080	2.00	1.96	
71 Toluene	92	7.872	7.872	0.000	90	21132	2.00	2.02	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	79	9188	2.00	2.01	
73 Ethyl methacrylate	69	8.209	8.209	0.000	62	6724	2.00	1.82	
74 1,1,2-Trichloroethane	97	8.305	8.306	-0.001	78	5080	2.00	2.03	
75 Tetrachloroethene	166	8.477	8.472	0.005	83	10551	2.00	2.07	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	84	9229	2.00	2.15	
79 Chlorodibromomethane	129	8.744	8.744	0.000	54	6162	2.00	1.96	
80 Ethylene Dibromide	107	8.878	8.873	0.005	62	5705	2.00	2.25	
* 81 Chlorobenzene-d5	117	9.408	9.413	-0.005	87	569332	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	44	25942	2.00	2.08	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	70	8504	2.00	1.93	
85 Ethylbenzene	106	9.584	9.584	0.000	93	14208	2.00	2.02	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	96	34445	2.00	2.05	
87 o-Xylene	91	10.296	10.296	0.000	89	35294	2.00	2.03	
88 Styrene	104	10.317	10.317	0.000	85	28555	2.00	2.13	
89 Bromoform	173	10.595	10.590	0.005	47	3313	2.00	1.87	
90 Isopropylbenzene	105	10.895	10.895	0.000	91	49255	2.00	2.07	
94 Bromobenzene	156	11.387	11.387	0.000	89	11787	2.00	2.10	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	52	6431	2.00	1.98	
96 1,2,3-Trichloropropane	75	11.456	11.462	-0.006	41	6858	2.00	2.25	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	9	2239	2.00	2.07	
98 N-Propylbenzene	91	11.585	11.585	0.000	93	58286	2.00	2.07	
99 2-Chlorotoluene	91	11.703	11.697	0.006	92	34117	2.00	1.85	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	40574	2.00	2.03	
101 4-Chlorotoluene	91	11.868	11.863	0.005	91	41017	2.00	2.21	
103 tert-Butylbenzene	119	12.323	12.323	0.000	85	39338	2.00	2.08	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	51	42762	2.00	2.08	
106 sec-Butylbenzene	105	12.623	12.623	0.000	89	55465	2.00	2.05	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	90	25078	2.00	2.18	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	54	47624	2.00	2.01	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	96	319675	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.864	-0.001	38	22795	2.00	2.04	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	70	20472	2.00	2.10	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	43061	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	1	774	2.00	1.87	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	83	14062	2.00	2.12	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	82	9729	2.00	2.14	
119 Naphthalene	128	15.303	15.303	0.000	95	19064	2.00	2.05	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	85	10984	2.00	2.15	
S 123 Xylenes, Total	100				0			4.08	
S 124 Trihalomethanes, Total	1				0			7.79	
S 125 1,3-Dichloropropene, Total	1				0			3.97	
S 126 Trimethylbenzene, Total	1				0			4.11	
S 127 1,2-Dichloroethene, Total	96				0			4.24	

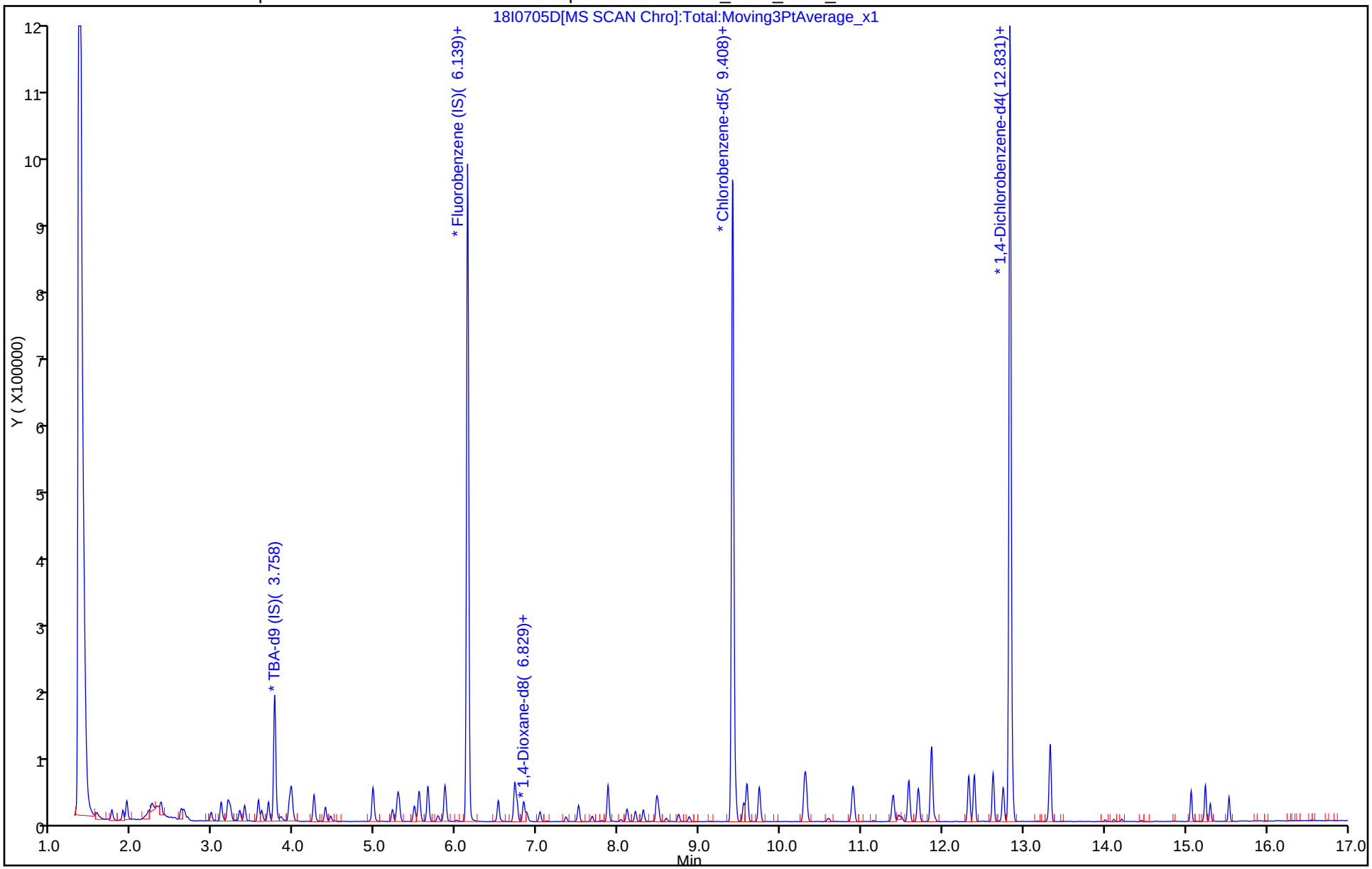
Reagents:

8260 LOWIS1_00108 Amount Added: 5.00 Units: uL
LOW8260ACR_00173 Amount Added: 2.00 Units: uL
LO8260/624STD_00259 Amount Added: 2.00 Units: uL

Report Date: 05-Jul-2017 18:04:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705D.d				
Injection Date:	05-Jul-2017 14:41:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD04			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705E.d
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Jul-2017 15:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 500-0046351-006
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:41 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	80	20730	5.00	4.34	
2 Chloromethane	50	1.752	1.752	0.000	88	30407	5.00	4.46	
3 Vinyl chloride	62	1.886	1.891	-0.005	81	27348	5.00	4.53	
4 Butadiene	39	1.939	1.940	-0.001	88	29843	5.00	4.49	
5 Bromomethane	94	2.250	2.250	0.000	87	10328	5.00	4.78	
6 Chloroethane	64	2.362	2.362	0.000	79	14338	5.00	4.93	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	97	40525	5.00	5.00	
8 Trichlorofluoromethane	101	2.640	2.646	-0.006	75	34360	5.00	4.61	
10 Ethyl ether	59	2.972	2.972	0.000	89	15420	5.00	4.75	
11 Acrolein	56	3.095	3.095	0.000	90	56091	200.0	181.1	
12 1,1-Dichloroethene	96	3.181	3.181	0.000	85	22528	5.00	4.91	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	81	22445	5.00	4.65	
14 Acetone	43	3.272	3.261	0.011	79	4395	5.00	6.04	
15 Iodomethane	142	3.330	3.330	0.000	97	38958	5.00	4.61	
16 Carbon disulfide	76	3.389	3.389	0.000	98	67873	5.00	4.54	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	13211	5.00	4.85	
20 Methyl acetate	43	3.598	3.593	0.005	96	43681	25.0	22.7	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	22221	5.00	5.04	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175392	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	74	9504	50.0	44.6	
24 Acrylonitrile	53	3.935	3.935	0.000	94	43933	50.0	43.6	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	23487	5.00	4.74	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	88	38541	5.00	4.47	
27 Hexane	57	4.245	4.245	0.000	94	40656	5.00	4.54	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	82	43354	5.00	4.61	
29 Vinyl acetate	43	4.448	4.449	-0.001	98	25808	5.00	4.43	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	61	27362	5.00	4.97	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	24059	5.00	4.66	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	5.005	4.994	0.011	67	5274	5.00	5.04	
39 Chlorobromomethane	128	5.213	5.214	-0.001	82	10011	5.00	4.75	
40 Tetrahydrofuran	42	5.267	5.267	0.000	67	7654	10.0	8.59	
41 Chloroform	83	5.294	5.294	0.000	96	35358	5.00	4.57	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	86	32311	5.00	4.62	
44 Cyclohexane	56	5.540	5.545	-0.005	94	53827	5.00	4.80	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	28779	5.00	4.76	
46 Carbon tetrachloride	117	5.652	5.652	0.000	76	28600	5.00	4.60	
47 Isobutyl alcohol	43	5.775	5.770	0.005	83	10878	125.0	111.2	
49 Benzene	78	5.861	5.861	0.000	97	80864	5.00	4.67	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	62	23507	5.00	4.45	
53 n-Heptane	43	6.134	6.134	0.000	40	41785	5.00	4.71	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	795875	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	85	22491	5.00	4.50	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	44931	5.00	4.80	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	86	21014	5.00	4.58	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17447	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	73	8174	5.00	4.40	
64 1,4-Dioxane	88	6.883	6.888	-0.005	36	2043	100.0	106.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	86	20839	5.00	4.50	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	77	6935	5.00	4.45	
68 cis-1,3-Dichloropropene	75	7.509	7.509	-0.001	73	25285	5.00	4.41	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	78	11794	5.00	4.94	
71 Toluene	92	7.872	7.872	0.000	93	47727	5.00	4.50	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	90	21432	5.00	4.62	
73 Ethyl methacrylate	69	8.209	8.209	0.000	79	15482	5.00	4.75	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	81	11856	5.00	4.68	
75 Tetrachloroethene	166	8.471	8.472	-0.001	88	23569	5.00	4.56	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	93	20609	5.00	4.73	
77 2-Hexanone	43	8.589	8.584	0.005	90	8059	5.00	5.09	
79 Chlorodibromomethane	129	8.744	8.744	0.000	78	13753	5.00	4.32	
80 Ethylene Dibromide	107	8.873	8.873	0.000	92	11878	5.00	4.61	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	85	577772	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	79	58091	5.00	4.58	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	82	19110	5.00	4.28	
85 Ethylbenzene	106	9.590	9.584	0.006	98	31705	5.00	4.44	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	78305	5.00	4.59	
87 o-Xylene	91	10.296	10.296	0.000	92	81986	5.00	4.66	
88 Styrene	104	10.317	10.317	0.000	90	60534	5.00	4.44	
89 Bromoform	173	10.585	10.590	-0.005	74	7231	5.00	4.03	
90 Isopropylbenzene	105	10.895	10.895	0.000	97	109768	5.00	4.64	
94 Bromobenzene	156	11.387	11.387	0.000	91	26468	5.00	4.74	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	60	13507	5.00	4.69	
96 1,2,3-Trichloropropane	75	11.457	11.462	-0.005	45	13934	5.00	4.59	
97 trans-1,4-Dichloro-2-buten	53	11.489	11.494	-0.005	28	4927	5.00	4.58	
98 N-Propylbenzene	91	11.585	11.585	0.000	96	131329	5.00	4.69	
99 2-Chlorotoluene	91	11.703	11.697	0.006	95	73626	5.00	4.58	
101 4-Chlorotoluene	91	11.869	11.863	0.005	91	86734	5.00	4.69	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	90	93893	5.00	4.71	
103 tert-Butylbenzene	119	12.323	12.323	0.000	91	86392	5.00	4.59	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	64	95821	5.00	4.69	
106 sec-Butylbenzene	105	12.623	12.623	0.000	93	126798	5.00	4.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	51997	5.00	4.54	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	68	110862	5.00	4.70	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	96	318096	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	92	49553	5.00	4.47	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	72	44020	5.00	4.55	
114 n-Butylbenzene	91	13.329	13.329	0.000	96	94755	5.00	4.61	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	12	2184	5.00	5.31	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	90	29148	5.00	4.42	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	87	21008	5.00	4.65	
119 Naphthalene	128	15.303	15.303	0.000	98	38936	5.00	4.20	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	22057	5.00	4.34	
S 123 Xylenes, Total	100				0			9.25	
S 124 Trihalomethanes, Total	1				0			17.4	
S 125 1,3-Dichloropropene, Total	1				0			9.03	
S 126 Trimethylbenzene, Total	1				0			9.41	
S 127 1,2-Dichloroethene, Total	96				0			9.41	

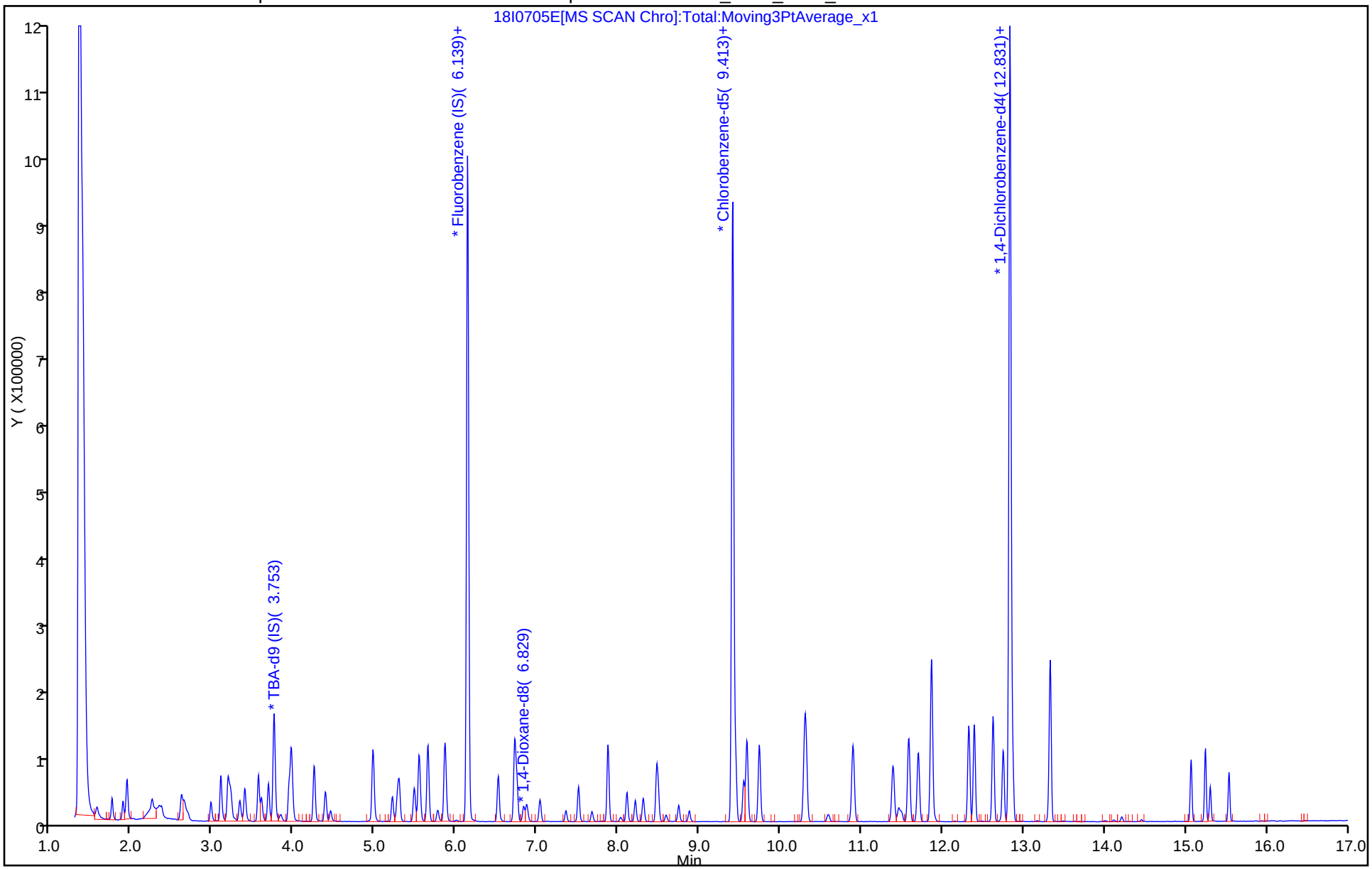
Reagents:

LOW8260ACR_00173 Amount Added: 5.00 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL
LO8260/624STD_00259 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:04:42 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705E.d				
Injection Date:	05-Jul-2017 15:06:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD05			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705F.d
Lims ID: STD06
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Jul-2017 15:31:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD06
Misc. Info.: 500-0046351-007
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:46 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	81700	20.0	17.1	
2 Chloromethane	50	1.758	1.752	0.006	89	120142	20.0	17.6	
3 Vinyl chloride	62	1.891	1.891	0.000	84	109889	20.0	18.7	
4 Butadiene	39	1.940	1.940	0.000	93	118412	20.0	17.8	
5 Bromomethane	94	2.250	2.250	0.000	92	37607	20.0	18.9	
6 Chloroethane	64	2.368	2.362	0.006	91	55755	20.0	19.1	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	82	153756	20.0	18.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	137633	20.0	18.5	
10 Ethyl ether	59	2.972	2.972	0.000	93	63149	20.0	19.4	
11 Acrolein	56	3.095	3.095	0.000	96	242776	800.0	782.6	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	89606	20.0	19.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	94835	20.0	19.6	
14 Acetone	43	3.261	3.261	0.000	94	13388	20.0	18.4	
15 Iodomethane	142	3.330	3.330	0.000	98	163760	20.0	19.3	
16 Carbon disulfide	76	3.395	3.389	0.006	99	281113	20.0	18.8	
19 3-Chloro-1-propene	76	3.561	3.560	0.001	91	53644	20.0	19.7	
20 Methyl acetate	43	3.598	3.593	0.005	99	182964	100.0	95.1	
21 Methylene Chloride	84	3.684	3.684	0.000	93	87843	20.0	19.9	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	174054	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	91	44126	200.0	208.6	
24 Acrylonitrile	53	3.935	3.935	0.000	99	188336	200.0	186.7	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	96622	20.0	19.5	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	88	166346	20.0	19.3	
27 Hexane	57	4.245	4.245	0.000	94	168669	20.0	18.8	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	184372	20.0	19.6	
29 Vinyl acetate	43	4.449	4.449	0.000	99	108899	20.0	18.7	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	83	101874	20.0	19.7	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	109238	20.0	19.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	55	20908	20.0	20.0	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	41021	20.0	19.4	
40 Tetrahydrofuran	42	5.267	5.267	0.000	87	29255	40.0	40.4	
41 Chloroform	83	5.299	5.294	0.005	83	148141	20.0	19.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	67	80718	20.0	19.1	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	88	134251	20.0	19.2	
44 Cyclohexane	56	5.545	5.545	0.000	93	216395	20.0	19.3	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	85	118509	20.0	19.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	78	118670	20.0	19.1	
47 Isobutyl alcohol	43	5.770	5.770	0.000	95	47449	500.0	488.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	79875	20.0	19.4	
49 Benzene	78	5.861	5.861	0.000	96	335016	20.0	19.3	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	56	102909	20.0	19.5	
53 n-Heptane	43	6.134	6.134	0.000	54	165708	20.0	18.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	97	796927	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	96750	20.0	19.4	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	184812	20.0	19.7	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	86	87032	20.0	18.9	
* 61 1,4-Dioxane-d8	96	6.835	6.834	0.001	0	17436	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	83	35538	20.0	19.1	
64 1,4-Dioxane	88	6.888	6.888	0.000	52	8563	400.0	445.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	90	86406	20.0	18.6	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	91	29172	20.0	19.2	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	81	108674	20.0	19.5	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	95	46539	20.0	20.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.803	-0.006	94	297039	20.0	19.3	
71 Toluene	92	7.872	7.872	0.000	88	197663	20.0	19.2	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	86409	20.0	19.1	
73 Ethyl methacrylate	69	8.209	8.209	0.000	81	61111	20.0	20.8	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	90	46098	20.0	18.7	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	98599	20.0	19.6	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	82025	20.0	19.3	
77 2-Hexanone	43	8.584	8.584	0.000	95	31482	20.0	20.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	87	56685	20.0	18.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	47581	20.0	19.0	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	562417	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	92	231158	20.0	18.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	86	82427	20.0	19.0	
85 Ethylbenzene	106	9.584	9.584	0.000	99	133251	20.0	19.2	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	318336	20.0	19.2	
87 o-Xylene	91	10.296	10.296	0.000	92	326547	20.0	19.0	
88 Styrene	104	10.317	10.317	0.000	92	253871	20.0	19.1	
89 Bromoform	173	10.590	10.590	0.000	97	31783	20.0	18.2	
90 Isopropylbenzene	105	10.895	10.895	0.000	97	445645	20.0	18.7	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	90	126981	20.0	20.1	
94 Bromobenzene	156	11.387	11.387	0.000	90	105458	20.0	18.8	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	65	53394	20.0	19.8	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	49	58789	20.0	19.3	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	47	19904	20.0	18.4	
98 N-Propylbenzene	91	11.580	11.585	-0.005	98	533504	20.0	19.0	
99 2-Chlorotoluene	91	11.703	11.697	0.006	97	301823	20.0	20.2	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	88	383613	20.0	19.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	350259	20.0	18.8	
103 tert-Butylbenzene	119	12.323	12.323	0.000	93	357420	20.0	18.9	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	390056	20.0	19.0	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	516926	20.0	19.1	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	216750	20.0	18.8	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	93	457613	20.0	19.3	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	96	319614	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	93	212318	20.0	19.0	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	73	184844	20.0	19.0	
114 n-Butylbenzene	91	13.329	13.329	0.000	96	394914	20.0	19.1	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	47	7872	20.0	19.0	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	126644	20.0	19.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	86502	20.0	19.1	
119 Naphthalene	128	15.303	15.303	0.000	99	172680	20.0	18.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	96998	20.0	19.0	
S 123 Xylenes, Total	100				0			38.2	
S 124 Trihalomethanes, Total	1				0			74.3	
S 125 1,3-Dichloropropene, Total	1				0			38.6	
S 126 Trimethylbenzene, Total	1				0			38.2	
S 127 1,2-Dichloroethene, Total	96				0			39.2	

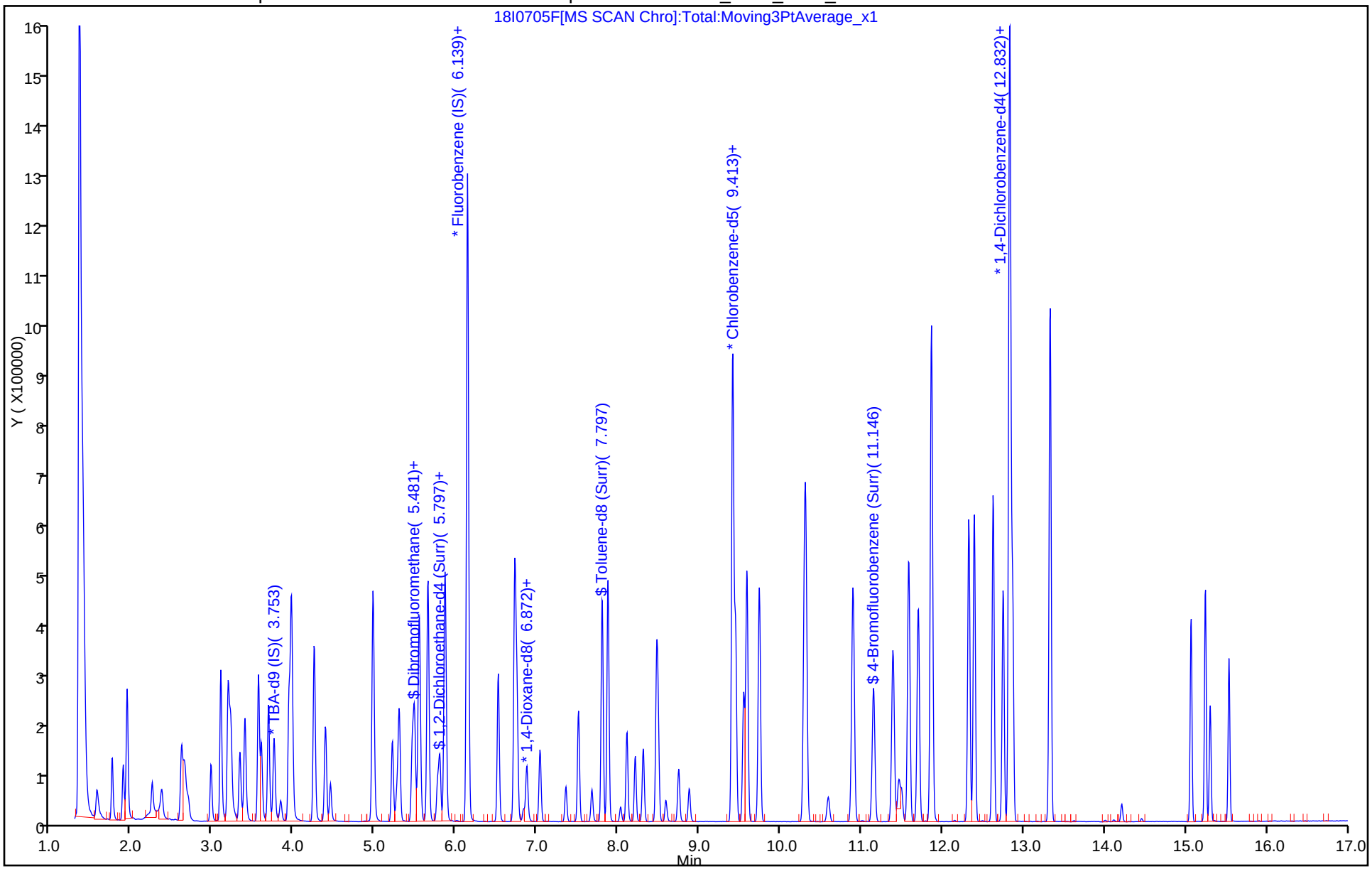
Reagents:

LOW8260ACR_00173	Amount Added: 20.00	Units: uL
8260 LOWSS1_00133	Amount Added: 2.00	Units: uL
8260 LOWIS1_00108	Amount Added: 5.00	Units: uL
LO8260/624STD_00259	Amount Added: 20.00	Units: uL

Report Date: 05-Jul-2017 18:04:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705F.d				
Injection Date:	05-Jul-2017 15:31:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD06			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705G.d
Lims ID: STD07
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 05-Jul-2017 15:56:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD07
Misc. Info.: 500-0046351-008
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:52 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	272116	50.0	56.6	
2 Chloromethane	50	1.752	1.752	0.000	89	336875	50.0	49.1	
3 Vinyl chloride	62	1.891	1.891	0.000	84	305131	50.0	51.9	
4 Butadiene	39	1.940	1.940	0.000	94	332358	50.0	49.6	
5 Bromomethane	94	2.250	2.250	0.000	90	96111	50.0	48.9	
6 Chloroethane	64	2.362	2.362	0.000	92	135433	50.0	46.2	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	83	391107	50.0	47.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	367395	50.0	49.0	
10 Ethyl ether	59	2.972	2.972	0.000	96	162953	50.0	49.8	
11 Acrolein	56	3.095	3.095	0.000	96	637851	2000.0	2044.0	
12 1,1-Dichloroethene	96	3.181	3.181	0.000	86	228803	50.0	49.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	83	247497	50.0	50.9	
14 Acetone	43	3.261	3.261	0.000	98	34308	50.0	46.8	
15 Iodomethane	142	3.330	3.330	0.000	97	425176	50.0	49.9	
16 Carbon disulfide	76	3.389	3.389	0.000	99	756356	50.0	50.3	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	139927	50.0	51.0	
20 Methyl acetate	43	3.593	3.593	0.000	97	461931	250.0	238.7	
21 Methylene Chloride	84	3.684	3.684	0.000	93	223357	50.0	50.3	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180389	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.839	3.839	0.000	90	105305	500.0	480.3	
24 Acrylonitrile	53	3.935	3.935	0.000	99	486981	500.0	480.0	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	247445	50.0	49.6	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	420529	50.0	48.4	
27 Hexane	57	4.245	4.245	0.000	95	447347	50.0	49.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	86	463937	50.0	48.9	
29 Vinyl acetate	43	4.449	4.449	0.000	99	274781	50.0	46.9	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	274726	50.0	49.6	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	256370	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	59	53426	50.0	50.7	
39 Chlorobromomethane	128	5.214	5.214	0.000	90	102218	50.0	48.1	
40 Tetrahydrofuran	42	5.267	5.267	0.000	89	68078	100.0	97.0	
41 Chloroform	83	5.294	5.294	0.000	84	372573	50.0	47.8	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	63	211073	50.0	49.7	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	348782	50.0	49.5	
44 Cyclohexane	56	5.545	5.545	0.000	93	562502	50.0	49.8	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	85	301684	50.0	49.5	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	316472	50.0	50.5	
47 Isobutyl alcohol	43	5.770	5.770	0.000	96	121739	1250.0	1209.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	203800	50.0	49.1	
49 Benzene	78	5.861	5.861	0.000	95	847471	50.0	48.5	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	58	259491	50.0	48.8	
53 n-Heptane	43	6.134	6.134	0.000	80	436764	50.0	48.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	93	801683	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	244484	50.0	48.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	469084	50.0	49.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	222854	50.0	48.2	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	18119	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	86	91089	50.0	48.6	
64 1,4-Dioxane	88	6.888	6.888	0.000	67	19097	1000.0	955.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	226010	50.0	48.5	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	71633	50.0	46.6	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	276998	50.0	49.0	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	116399	50.0	49.5	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	772381	50.0	49.5	
71 Toluene	92	7.872	7.872	0.000	85	492442	50.0	47.1	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	214741	50.0	47.0	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	144793	50.0	49.2	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	112325	50.0	45.0	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	250004	50.0	49.0	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	200846	50.0	46.8	
77 2-Hexanone	43	8.584	8.584	0.000	76	79377	50.0	50.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	151435	50.0	48.2	
80 Ethylene Dibromide	107	8.873	8.873	0.000	97	118442	50.0	46.6	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	87	569472	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	93	587653	50.0	47.0	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	208912	50.0	47.4	
85 Ethylbenzene	106	9.584	9.584	0.000	99	334739	50.0	47.5	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	799570	50.0	47.6	
87 o-Xylene	91	10.296	10.296	0.000	94	832050	50.0	47.9	
88 Styrene	104	10.317	10.317	0.000	91	633051	50.0	47.1	
89 Bromoform	173	10.590	10.590	0.000	98	84269	50.0	47.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1119416	50.0	46.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	91	307658	50.0	47.8	
94 Bromobenzene	156	11.387	11.387	0.000	92	259390	50.0	45.3	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.392	0.000	58	128840	50.0	47.5	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	51	145921	50.0	46.8	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	70	51269	50.0	46.5	
98 N-Propylbenzene	91	11.585	11.585	0.000	98	1310644	50.0	45.7	
99 2-Chlorotoluene	91	11.697	11.697	0.000	98	742252	50.0	49.3	
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	855588	50.0	45.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	951676	50.0	46.6	
103 tert-Butylbenzene	119	12.323	12.323	0.000	93	889840	50.0	46.1	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	972016	50.0	46.4	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1292282	50.0	46.8	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	528543	50.0	45.0	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	1141738	50.0	47.2	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	80	326186	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	517781	50.0	45.5	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	72	454217	50.0	45.7	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	994436	50.0	47.2	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	56	19714	50.0	46.7	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	318543	50.0	47.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	219148	50.0	47.3	
119 Naphthalene	128	15.303	15.303	0.000	99	455189	50.0	47.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	246565	50.0	47.3	

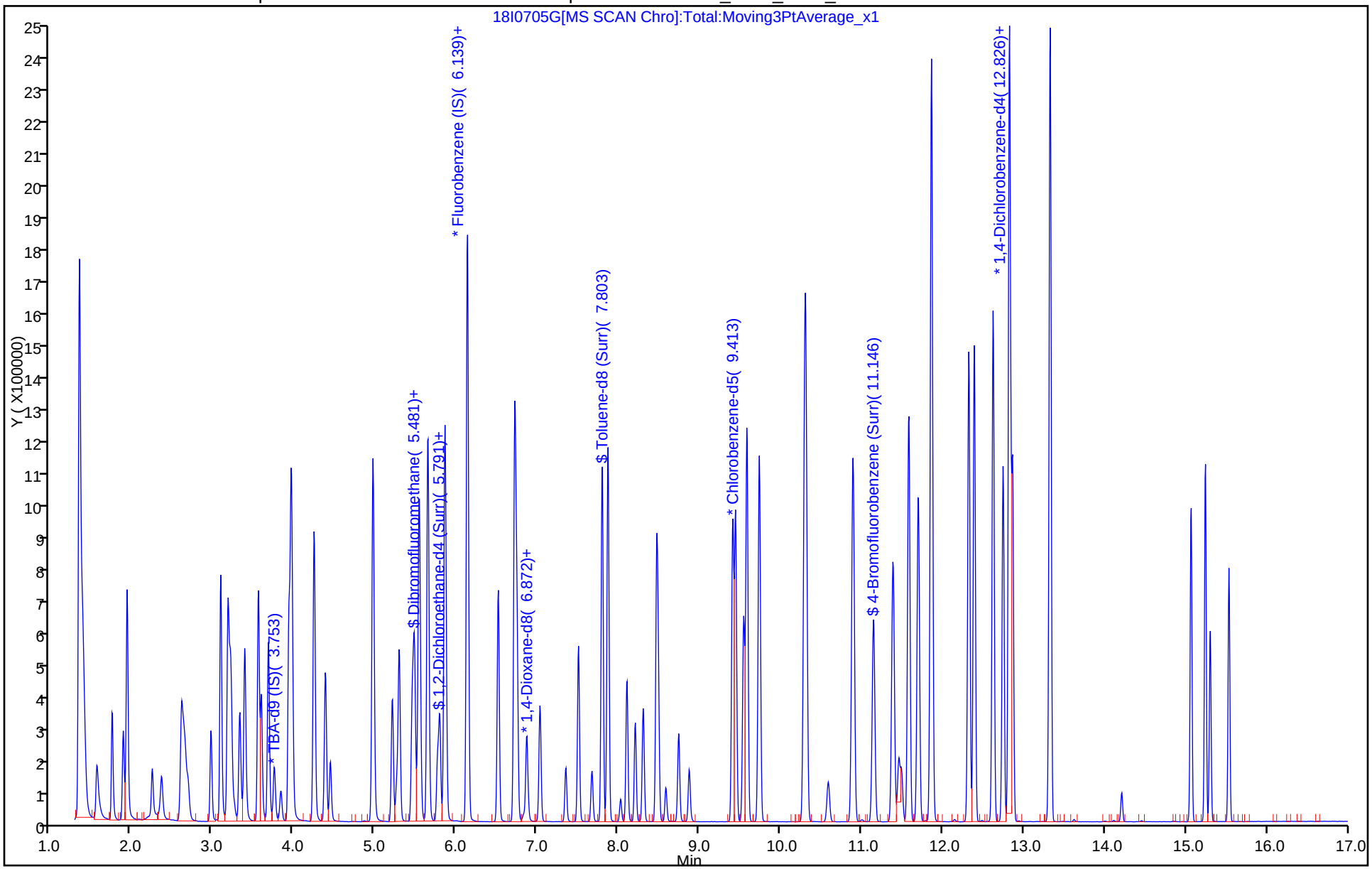
Reagents:

8260 LOWSS1_00133	Amount Added:	5.00	Units: uL
8260/624ACRWK_00334	Amount Added:	2.50	Units: uL
8260/624GASWK_00457	Amount Added:	2.50	Units: uL
8260/624KETWK_00262	Amount Added:	2.50	Units: uL
8260VA/2CEVE_00276	Amount Added:	2.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	2.50	Units: uL

Report Date: 05-Jul-2017 18:04:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705G.d				
Injection Date:	05-Jul-2017 15:56:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD07			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705H.d
Lims ID: STD08
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Jul-2017 16:21:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD08
Misc. Info.: 500-0046351-009
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:58 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	527601	100.0	110.4	
2 Chloromethane	50	1.752	1.752	0.000	89	674171	100.0	98.8	
3 Vinyl chloride	62	1.891	1.891	0.000	84	604942	100.0	103.7	
4 Butadiene	39	1.940	1.940	0.000	93	667705	100.0	100.2	
5 Bromomethane	94	2.250	2.250	0.000	90	193959	100.0	99.8	
6 Chloroethane	64	2.362	2.362	0.000	92	277550	100.0	95.2	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	84	772426	100.0	95.1	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	713643	100.0	95.6	
10 Ethyl ether	59	2.972	2.972	0.000	97	339452	100.0	104.3	
11 Acrolein	56	3.095	3.095	0.000	94	1281902	4000.0	4130.6	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	456181	100.0	99.3	
13 1,1,2-Trichloro-1,2,2-trif	101	3.213	3.218	-0.005	84	481780	100.0	99.7	
14 Acetone	43	3.261	3.261	0.000	96	70846	100.0	97.2	
15 Iodomethane	142	3.330	3.330	0.000	97	857408	100.0	101.2	
16 Carbon disulfide	76	3.389	3.389	0.000	99	1539407	100.0	102.9	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	267341	100.0	97.9	
20 Methyl acetate	43	3.593	3.593	0.000	100	983993	500.0	511.3	
21 Methylene Chloride	84	3.684	3.684	0.000	93	441233	100.0	99.9	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	176950	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	99	221896	1000.0	1031.8	
24 Acrylonitrile	53	3.935	3.935	0.000	98	1008539	1000.0	999.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	484469	100.0	97.7	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	856864	100.0	99.2	
27 Hexane	57	4.245	4.245	0.000	94	893243	100.0	99.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	944075	100.0	100.1	
29 Vinyl acetate	43	4.449	4.449	0.000	99	569580	100.0	97.7	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	513610	100.0	99.3	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	530587	100.0	96.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	42	102095	100.0	97.4	
39 Chlorobromomethane	128	5.214	5.214	0.000	92	214726	100.0	101.7	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	88	140204	200.0	203.7	
41 Chloroform	83	5.294	5.294	0.000	74	752011	100.0	97.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	427416	100.0	101.3	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	699595	100.0	99.9	
44 Cyclohexane	56	5.545	5.545	0.000	94	1118318	100.0	99.6	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	597260	100.0	98.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	638700	100.0	102.6	
47 Isobutyl alcohol	43	5.770	5.770	0.000	97	256767	2500.0	2601.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	412779	100.0	100.1	
49 Benzene	78	5.861	5.861	0.000	95	1716482	100.0	98.9	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	536135	100.0	101.4	
53 n-Heptane	43	6.134	6.134	0.000	95	870212	100.0	97.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	85	797286	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	91	493280	100.0	98.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	920502	100.0	98.2	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	451436	100.0	98.2	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18605	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	185247	100.0	99.4	
64 1,4-Dioxane	88	6.888	6.888	0.000	64	41154	2000.0	2005.3	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	466445	100.0	100.5	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	94	146114	100.0	97.6	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	561271	100.0	101.9	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	229053	100.0	99.9	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	1550106	100.0	101.9	
71 Toluene	92	7.872	7.872	0.000	93	1003686	100.0	98.5	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	437551	100.0	98.2	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	292943	100.0	102.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	87	234406	100.0	96.3	
75 Tetrachloroethene	166	8.471	8.472	-0.001	91	489260	100.0	98.5	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	406391	100.0	97.1	
77 2-Hexanone	43	8.584	8.584	0.000	98	149581	100.0	98.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	315790	100.0	103.2	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	240318	100.0	97.1	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	88	555088	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	95	1155483	100.0	94.9	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	430534	100.0	100.3	
85 Ethylbenzene	106	9.590	9.584	0.006	99	654389	100.0	95.3	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	1570381	100.0	95.9	
87 o-Xylene	91	10.296	10.296	0.000	93	1633419	100.0	96.5	
88 Styrene	104	10.317	10.317	0.000	92	1255558	100.0	95.9	
89 Bromoform	173	10.590	10.590	0.000	98	185997	100.0	107.9	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	2208656	100.0	95.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	90	614724	100.0	100.1	
94 Bromobenzene	156	11.387	11.387	0.000	91	515768	100.0	94.3	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	66	265906	100.0	103.3	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	52	293535	100.0	98.7	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	76	103376	100.0	98.2	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	2566380	100.0	93.7	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	1461715	100.0	102.2	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	1852778	100.0	95.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.869	11.863	0.006	92	1667450	100.0	92.1	
103 tert-Butylbenzene	119	12.323	12.323	0.000	89	1761077	100.0	95.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	1908558	100.0	95.5	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	2530460	100.0	96.0	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	1058714	100.0	94.5	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	95	2243353	100.0	97.2	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	72	311229	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	1030219	100.0	94.9	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	75	904238	100.0	95.4	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	1963275	100.0	97.7	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	63	42234	100.0	104.9	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	645373	100.0	100.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	427080	100.0	96.7	
119 Naphthalene	128	15.303	15.303	0.000	98	950708	100.0	104.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	503726	100.0	101.3	
S 123 Xylenes, Total	100				0			192.4	
S 124 Trihalomethanes, Total	1				0			408.8	
S 125 1,3-Dichloropropene, Total	1				0			200.1	
S 126 Trimethylbenzene, Total	1				0			190.6	
S 127 1,2-Dichloroethene, Total	96				0			197.0	

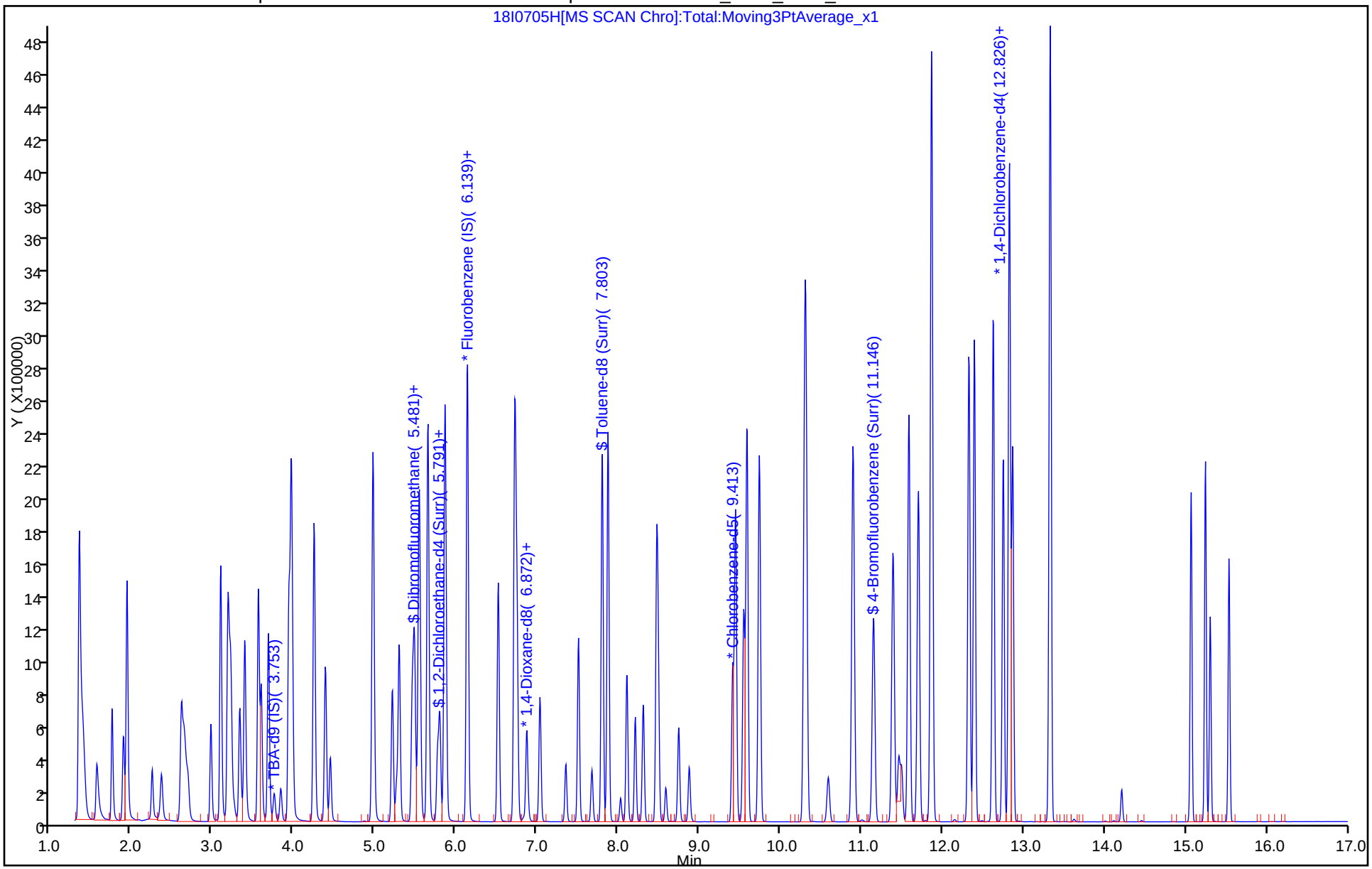
Reagents:

8260 LOWSS1_00133	Amount Added: 10.00	Units: uL
8260/624ACRWK_00334	Amount Added: 5.00	Units: uL
8260/624GASWK_00457	Amount Added: 5.00	Units: uL
8260/624KETWK_00262	Amount Added: 5.00	Units: uL
8260VA/2CEVE_00276	Amount Added: 5.00	Units: uL
8260 LOWIS1_00108	Amount Added: 5.00	Units: uL
8260/624MEGWK_00391	Amount Added: 5.00	Units: uL

Report Date: 05-Jul-2017 18:05:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705H.d				
Injection Date:	05-Jul-2017 16:21:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD08			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705I.d
Lims ID: STD09
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 05-Jul-2017 16:46:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD09
Misc. Info.: 500-0046351-010
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:05:05 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:05:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	88	775138	150.0	163.0	
2 Chloromethane	50	1.757	1.752	0.005	89	991831	150.0	146.1	
3 Vinyl chloride	62	1.897	1.891	0.006	83	897571	150.0	154.7	
4 Butadiene	39	1.939	1.940	-0.001	93	996872	150.0	150.4	
5 Bromomethane	94	2.250	2.250	0.000	91	288419	150.0	149.5	
6 Chloroethane	64	2.367	2.362	0.005	91	415683	150.0	143.3	
7 Dichlorofluoromethane	67	2.613	2.608	0.005	83	1129805	150.0	139.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	1059463	150.0	142.7	
10 Ethyl ether	59	2.972	2.972	0.000	98	500438	150.0	154.5	
11 Acrolein	56	3.095	3.095	0.000	96	1915013	6000.0	6202.8	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	693260	150.0	151.7	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	715425	150.0	148.8	
14 Acetone	43	3.261	3.261	0.000	97	105095	150.0	144.9	
15 Iodomethane	142	3.330	3.330	0.000	98	1282816	150.0	152.2	
16 Carbon disulfide	76	3.394	3.389	0.005	99	2278552	150.0	153.1	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	404491	150.0	148.9	
20 Methyl acetate	43	3.592	3.593	-0.001	100	1441283	750.0	752.8	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	658706	150.0	150.0	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180577	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	99	330674	1500.0	1506.7	
24 Acrylonitrile	53	3.935	3.935	0.000	98	1497067	1500.0	1491.3	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	717405	150.0	145.4	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	1264809	150.0	147.2	
27 Hexane	57	4.250	4.245	0.005	95	1354731	150.0	151.6	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	85	1425060	150.0	151.9	
29 Vinyl acetate	43	4.448	4.449	-0.001	99	904001	150.0	155.8	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	768970	150.0	140.3	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	765209	150.0	148.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	42	154325	150.0	148.0	
39 Chlorobromomethane	128	5.213	5.214	-0.001	92	315622	150.0	150.2	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	90	210363	300.0	308.7	
41 Chloroform	83	5.299	5.294	0.005	84	1142376	150.0	148.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	648559	150.0	154.5	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	90	1028320	150.0	147.5	
44 Cyclohexane	56	5.545	5.545	0.000	94	1678279	150.0	150.2	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	84	903310	150.0	149.9	
46 Carbon tetrachloride	117	5.652	5.652	0.000	74	957861	150.0	154.6	
47 Isobutyl alcohol	43	5.770	5.770	0.000	95	379845	3750.0	3771.2	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.796	5.797	-0.001	0	629613	150.0	153.4	
49 Benzene	78	5.861	5.861	0.000	95	2592258	150.0	150.1	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	54	802623	150.0	152.6	
53 n-Heptane	43	6.134	6.134	0.000	96	1345711	150.0	152.2	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	68	793160	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	746200	150.0	150.0	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	1372161	150.0	147.1	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	87	693362	150.0	151.6	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	18964	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	88	279814	150.0	151.0	
64 1,4-Dioxane	88	6.888	6.888	0.000	63	62699	3000.0	2997.3	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	725445	150.0	157.2	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	224705	150.0	149.4	
68 cis-1,3-Dichloropropene	75	7.508	7.509	-0.001	86	866161	150.0	156.5	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	345903	150.0	150.1	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	2347763	150.0	153.7	
71 Toluene	92	7.872	7.872	0.000	91	1530063	150.0	149.5	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	665032	150.0	148.6	
73 Ethyl methacrylate	69	8.209	8.209	0.000	82	436487	150.0	152.6	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	89	353136	150.0	144.4	
75 Tetrachloroethene	166	8.477	8.472	0.005	91	755618	150.0	151.4	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	617105	150.0	146.8	
77 2-Hexanone	43	8.584	8.584	0.000	98	222613	150.0	145.8	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	486428	150.0	158.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	100	362820	150.0	145.9	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	557640	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	1783602	150.0	145.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	665912	150.0	154.4	
85 Ethylbenzene	106	9.589	9.584	0.005	99	1002770	150.0	145.4	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	2365982	150.0	143.8	
87 o-Xylene	91	10.301	10.296	0.005	91	2463745	150.0	145.0	
88 Styrene	104	10.317	10.317	0.000	91	1898183	150.0	144.3	
89 Bromoform	173	10.590	10.590	0.000	97	279997	150.0	161.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	3320949	150.0	148.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	89	924613	150.0	155.7	
94 Bromobenzene	156	11.387	11.387	0.000	90	777571	150.0	147.1	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	64	388572	150.0	156.3	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	53	443741	150.0	154.4	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	78	155723	150.0	153.1	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	3801360	150.0	143.5	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	2200917	150.0	159.4	
101 4-Chlorotoluene	91	11.868	11.863	0.005	91	2487588	150.0	142.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	2751022	150.0	146.0	
103 tert-Butylbenzene	119	12.328	12.323	0.005	93	2591771	150.0	145.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	2824184	150.0	146.2	
106 sec-Butylbenzene	105	12.628	12.623	0.005	94	3678597	150.0	144.4	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	1572809	150.0	145.2	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	3274818	150.0	146.8	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	57	300905	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.864	-0.001	94	1530441	150.0	145.8	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	77	1330213	150.0	145.2	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	2822903	150.0	145.3	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	59	60110	150.0	154.4	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	90	921392	150.0	147.8	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	600596	150.0	140.6	
119 Naphthalene	128	15.303	15.303	0.000	98	1345710	150.0	153.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	711241	150.0	147.9	
S 123 Xylenes, Total	100				0			288.7	
S 124 Trihalomethanes, Total	1				0			625.4	
S 125 1,3-Dichloropropene, Total	1				0			305.1	
S 126 Trimethylbenzene, Total	1				0			292.2	
S 127 1,2-Dichloroethene, Total	96				0			294.2	

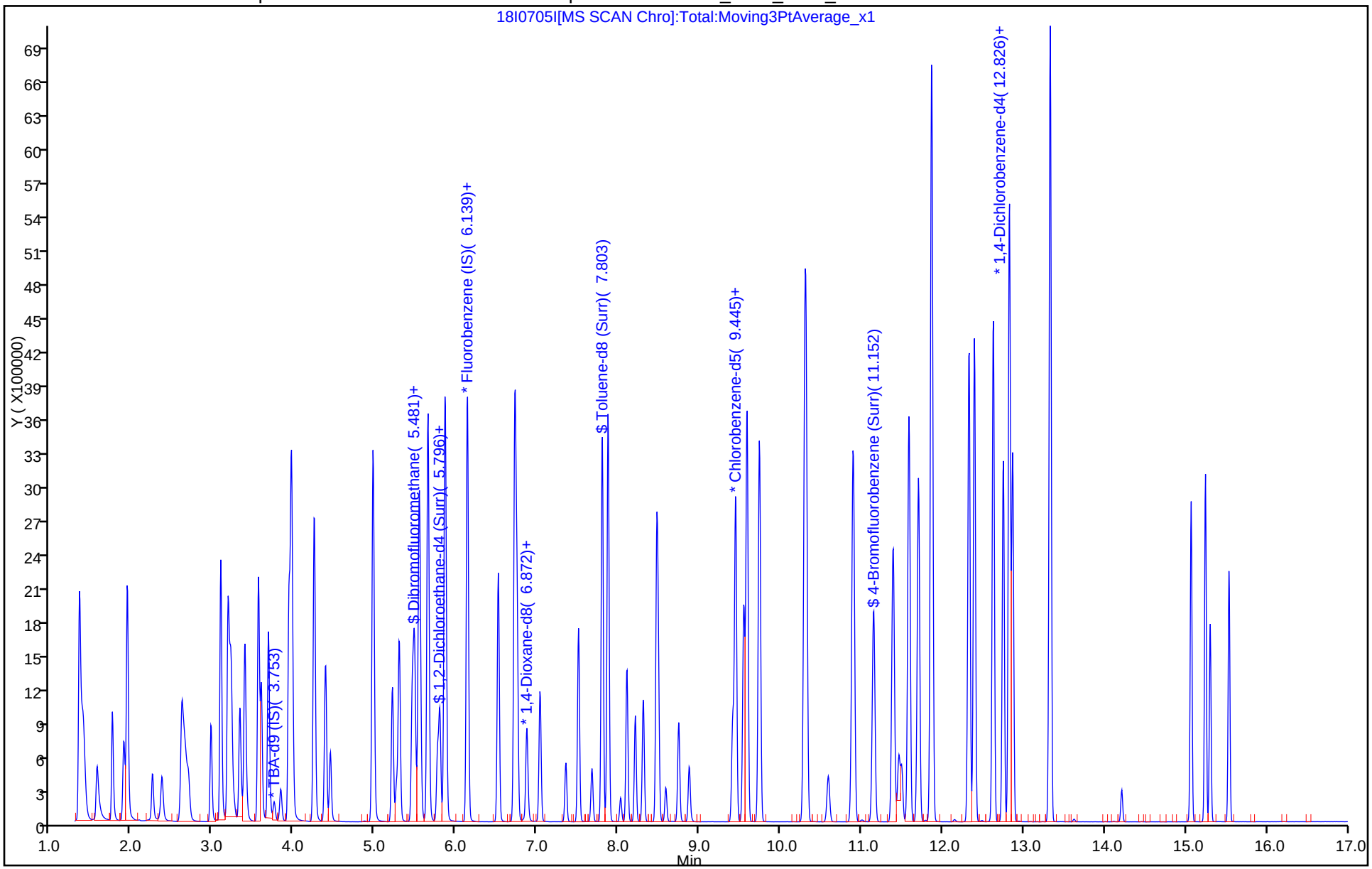
Reagents:

8260 LOWSS1_00133	Amount Added: 15.00	Units: uL
8260/624ACRWK_00334	Amount Added: 7.50	Units: uL
8260/624GASWK_00457	Amount Added: 7.50	Units: uL
8260/624KETWK_00262	Amount Added: 7.50	Units: uL
8260VA/2CEVE_00276	Amount Added: 7.50	Units: uL
8260 LOWIS1_00108	Amount Added: 5.00	Units: uL
8260/624MEGWK_00391	Amount Added: 7.50	Units: uL

Report Date: 05-Jul-2017 18:05:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705I.d				
Injection Date:	05-Jul-2017 16:46:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD09			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 05-Jul-2017 17:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Misc. Info.: 500-0046351-011
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:05:10 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:05:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	88	1061995	200.0	224.7	
2 Chloromethane	50	1.758	1.752	0.006	88	1386497	200.0	205.4	
3 Vinyl chloride	62	1.902	1.891	0.011	82	1227798	200.0	213.1	
4 Butadiene	39	1.940	1.940	0.000	93	1372905	200.0	208.4	
5 Bromomethane	94	2.250	2.250	0.000	90	416245	200.0	217.4	
6 Chloroethane	64	2.368	2.362	0.006	92	599785	200.0	208.1	
7 Dichlorofluoromethane	67	2.614	2.608	0.006	83	1562454	200.0	194.6	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	1450310	200.0	196.6	
10 Ethyl ether	59	2.972	2.972	0.000	98	668978	200.0	207.9	
11 Acrolein	56	3.095	3.095	0.000	94	2604613	8000.0	8489.1	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	914221	200.0	201.3	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	960098	200.0	200.9	
14 Acetone	43	3.261	3.261	0.000	97	144039	200.0	199.9	
15 Iodomethane	142	3.330	3.330	0.000	98	1694761	200.0	202.3	
16 Carbon disulfide	76	3.395	3.389	0.006	99	3024082	200.0	204.5	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	514612	200.0	190.6	
20 Methyl acetate	43	3.593	3.593	0.000	98	1958229	1000.0	1029.2	
21 Methylene Chloride	84	3.684	3.684	0.000	92	865146	200.0	198.2	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180156	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	98	439795	2000.0	2008.5	
24 Acrylonitrile	53	3.935	3.935	0.000	98	2032201	2000.0	2037.1	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	946972	200.0	193.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	1697581	200.0	198.8	
27 Hexane	57	4.251	4.245	0.006	95	1797062	200.0	202.4	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	1885420	200.0	202.2	
29 Vinyl acetate	43	4.449	4.449	0.000	99	1230286	200.0	213.4	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	1012515	200.0	198.1	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	995454	200.0	182.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	43	211058	200.0	203.7	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	422477	200.0	202.4	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	91	286010	400.0	423.3	
41 Chloroform	83	5.299	5.294	0.005	84	1511411	200.0	197.4	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	68	838574	200.0	201.0	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	89	1372930	200.0	198.2	
44 Cyclohexane	56	5.545	5.545	0.000	93	2254682	200.0	203.0	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	83	1185625	200.0	198.0	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	1268130	200.0	206.0	
47 Isobutyl alcohol	43	5.770	5.770	0.000	97	516284	5000.0	5137.8	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	835861	200.0	205.0	
49 Benzene	78	5.861	5.861	0.000	95	3386318	200.0	197.3	
50 1,2-Dichloroethane	62	5.877	5.872	0.005	71	1074681	200.0	205.6	
53 n-Heptane	43	6.134	6.134	0.000	96	1765681	200.0	201.0	
* 54 Fluorobenzene (IS)	96	6.144	6.139	0.005	65	788230	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	985429	200.0	199.3	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	1805649	200.0	194.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	87	913964	200.0	201.1	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	20646	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	370367	200.0	201.1	
64 1,4-Dioxane	88	6.888	6.888	0.000	62	79073	4000.0	3472.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	962188	200.0	209.8	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	306734	200.0	202.9	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	86	1150948	200.0	206.9	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	473140	200.0	204.3	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	94	3075705	200.0	200.3	
71 Toluene	92	7.872	7.872	0.000	88	2020225	200.0	196.4	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	891201	200.0	198.1	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	585681	200.0	203.9	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	475288	200.0	193.3	
75 Tetrachloroethene	166	8.472	8.472	0.000	91	987214	200.0	196.7	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	95	810185	200.0	191.7	
77 2-Hexanone	43	8.584	8.584	0.000	98	302771	200.0	197.2	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	655275	200.0	212.1	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	486421	200.0	194.6	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	560615	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	96	2316648	200.0	188.3	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	873975	200.0	201.6	
85 Ethylbenzene	106	9.590	9.584	0.006	99	1304396	200.0	188.1	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	3093823	200.0	187.0	
87 o-Xylene	91	10.301	10.296	0.005	92	3208794	200.0	187.8	
88 Styrene	104	10.317	10.317	0.000	90	2478330	200.0	187.4	
89 Bromoform	173	10.590	10.590	0.000	98	388152	200.0	223.0	
90 Isopropylbenzene	105	10.900	10.895	0.005	98	4287635	200.0	190.2	
$ 92 4-Bromofluorobenzene (Surr	95	11.152	11.146	0.006	91	1193401	200.0	199.7	
94 Bromobenzene	156	11.387	11.387	0.000	90	1013502	200.0	190.5	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	64	519097	200.0	207.7	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	51	597569	200.0	206.6	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	74	204185	200.0	199.5	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	4885915	200.0	183.3	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	2854571	200.0	205.6	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	88	3527054	200.0	186.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.869	11.863	0.006	88	3225245	200.0	183.1	
103 tert-Butylbenzene	119	12.329	12.323	0.006	88	3359443	200.0	187.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	3642256	200.0	187.4	
106 sec-Butylbenzene	105	12.628	12.623	0.005	94	4697182	200.0	183.2	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	2039179	200.0	187.1	
108 4-Isopropyltoluene	119	12.826	12.821	0.005	95	4150107	200.0	184.9	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	53	302763	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.869	12.864	0.005	94	1992490	200.0	188.7	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	80	1715886	200.0	186.1	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	3553266	200.0	181.8	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	66	81341	200.0	207.7	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	1144526	200.0	182.5	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	750421	200.0	174.6	
119 Naphthalene	128	15.303	15.303	0.000	98	1699293	200.0	192.7	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	869993	200.0	179.8	
S 123 Xylenes, Total	100				0			374.8	
S 124 Trihalomethanes, Total	1				0			842.3	
S 125 1,3-Dichloropropene, Total	1				0			405.0	
S 126 Trimethylbenzene, Total	1				0			373.4	
S 127 1,2-Dichloroethene, Total	96				0			391.2	

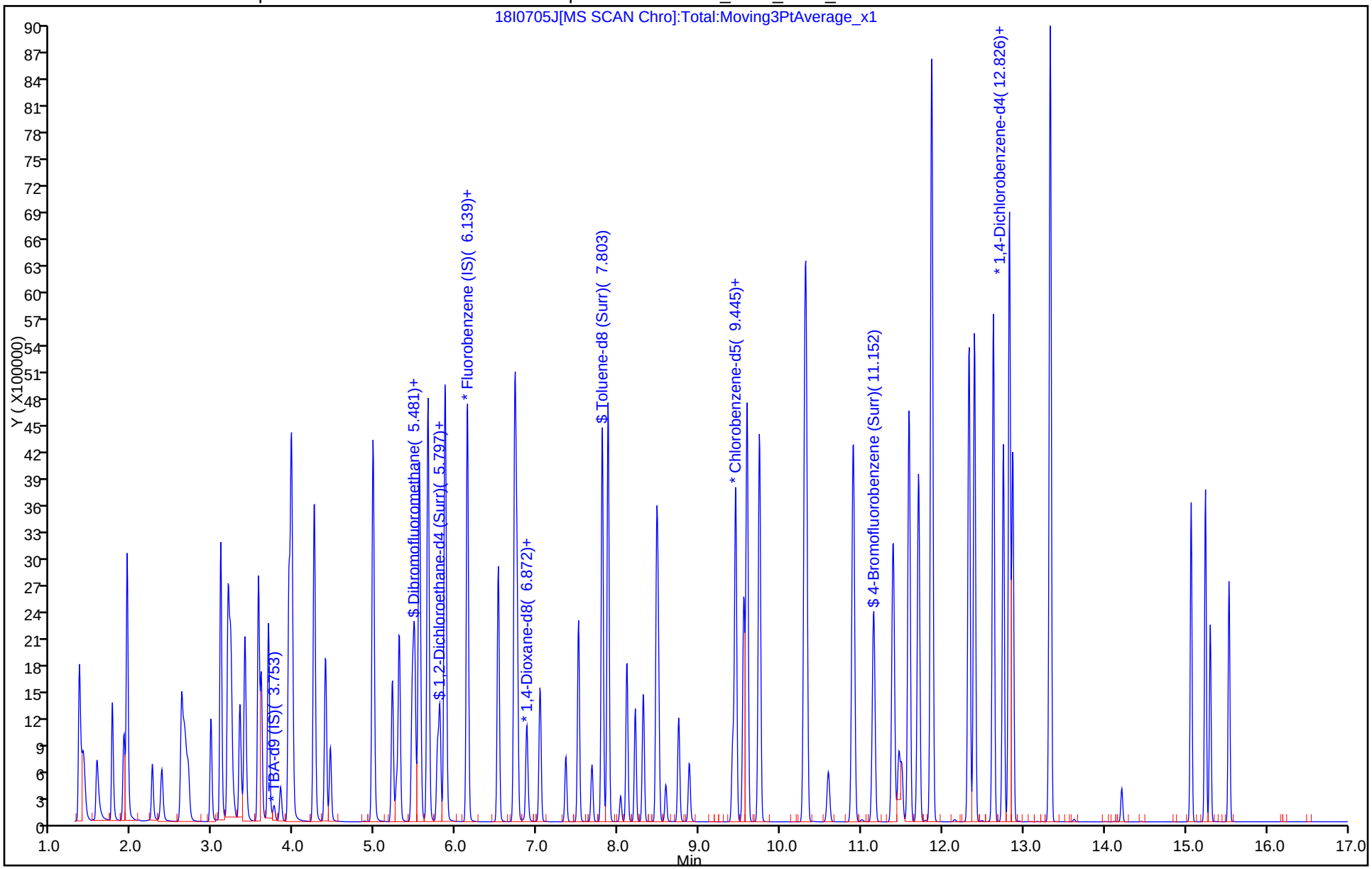
Reagents:

8260 LOWSS1_00133	Amount Added: 20.00	Units: uL
8260/624ACRWK_00334	Amount Added: 10.00	Units: uL
8260/624GASWK_00457	Amount Added: 10.00	Units: uL
8260/624KETWK_00262	Amount Added: 10.00	Units: uL
8260VA/2CEVE_00276	Amount Added: 10.00	Units: uL
8260 LOWIS1_00108	Amount Added: 5.00	Units: uL
8260/624MEGWK_00391	Amount Added: 10.00	Units: uL

Report Date: 05-Jul-2017 18:05:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d				
Injection Date:	05-Jul-2017 17:12:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD10			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2998	0.2920	0.0100	48.7	50.0	-2.6	30.0
Chloromethane	Ave	0.4281	0.3997	0.1000	46.7	50.0	-6.6	30.0
Vinyl chloride	Lin2		0.3704	0.0100	50.5	50.0	1.0	30.0
Butadiene	Ave	0.4180	0.3885	0.0100	46.5	50.0	-7.1	30.0
Bromomethane	Lin2		0.1169	0.0100	47.7	50.0	-4.7	30.0
Chloroethane	Ave	0.1829	0.1695	0.0100	46.3	50.0	-7.3	30.0
Dichlorofluoromethane	Ave	0.5092	0.5182	0.0100	50.9	50.0	1.8	30.0
Trichlorofluoromethane	Ave	0.4679	0.4430	0.0100	47.3	50.0	-5.3	30.0
Ethyl ether	Ave	0.2041	0.2052	0.0100	50.3	50.0	0.5	30.0
Acrolein	Ave	0.0195	0.0192	0.0010	1980	2000	-1.2	30.0
1,1-Dichloroethene	Ave	0.2881	0.2728	0.0100	47.4	50.0	-5.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3031	0.2857	0.0100	47.1	50.0	-5.8	30.0
Acetone	Ave	0.0457	0.0473	0.0100	51.7	50.0	3.4	30.0
Iodomethane	Ave	0.5313	0.5202	0.0100	48.9	50.0	-2.1	30.0
Carbon disulfide	Ave	0.9382	0.8937	0.0100	47.6	50.0	-4.7	30.0
3-Chloropropene	Ave	0.1713	0.1610	0.0100	47.0	50.0	-6.0	30.0
Methyl acetate	Ave	0.1207	0.1144	0.0100	237	250	-5.3	30.0
Methylene Chloride	Ave	0.2769	0.2784	0.0100	50.3	50.0	0.5	30.0
tert-Butyl alcohol	Ave	1.215	1.249	0.0100	514	500	2.7	30.0
Acrylonitrile	Ave	0.0633	0.0606	0.0010	479	500	-4.2	30.0
trans-1,2-Dichloroethene	Ave	0.3110	0.2992	0.0100	48.1	50.0	-3.8	30.0
Methyl tert-butyl ether	Ave	0.5416	0.5337	0.0100	49.3	50.0	-1.5	30.0
Hexane	Ave	0.5632	0.5254	0.0100	46.6	50.0	-6.7	30.0
1,1-Dichloroethane	Ave	0.5914	0.5734	0.1000	48.5	50.0	-3.0	30.0
Vinyl acetate	Ave	0.3658	0.3379	0.0100	46.2	50.0	-7.6	30.0
2,2-Dichloropropane	Ave	0.3456	0.3247	0.0100	47.0	50.0	-6.0	30.0
cis-1,2-Dichloroethene	Ave	0.3242	0.3126	0.0100	48.2	50.0	-3.6	30.0
Methyl Ethyl Ketone	Ave	0.0657	0.0688	0.0100	52.3	50.0	4.7	30.0
Bromochloromethane	Ave	0.1324	0.1249	0.0100	47.1	50.0	-5.7	30.0
Tetrahydrofuran	Lin2		0.0410	0.0100	93.6	100	-6.4	30.0
Chloroform	Ave	0.4856	0.4596	0.0100	47.3	50.0	-5.4	30.0
1,1,1-Trichloroethane	Ave	0.4394	0.4141	0.0100	47.1	50.0	-5.8	30.0
Cyclohexane	Ave	0.7044	0.6678	0.0100	47.4	50.0	-5.2	30.0
1,1-Dichloropropene	Ave	0.3798	0.3639	0.0100	47.9	50.0	-4.2	30.0
Carbon tetrachloride	Ave	0.3906	0.3804	0.0100	48.7	50.0	-2.6	30.0
Isobutyl alcohol	Ave	0.5578	0.5501	0.0010	1230	1250	-1.4	30.0
Benzene	Ave	1.089	1.048	0.0100	48.1	50.0	-3.7	30.0
1,2-Dichloroethane	Ave	0.3316	0.3186	0.0100	48.0	50.0	-3.9	30.0
Heptane	Ave	0.5573	0.5113	0.0100	45.9	50.0	-8.3	30.0
Trichloroethene	Ave	0.3137	0.2951	0.0100	47.0	50.0	-5.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5880	0.5515	0.0100	46.9	50.0	-6.2	30.0
1,2-Dichloropropane	Ave	0.2883	0.2805	0.0100	48.7	50.0	-2.7	30.0
Dibromomethane	Ave	0.1168	0.1079	0.0100	46.2	50.0	-7.7	30.0
1,4-Dioxane	Ave	1.103	1.128	0.0010	1020	1000	2.2	30.0
Bromodichloromethane	Ave	0.2909	0.2777	0.0100	47.7	50.0	-4.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.1332	0.0100	49.4	50.0	-1.2	30.0
cis-1,3-Dichloropropene	Ave	0.4961	0.4686	0.0100	47.2	50.0	-5.5	30.0
methyl isobutyl ketone	Ave	0.2066	0.2308	0.0100	55.9	50.0	11.7	30.0
Toluene	Ave	0.9176	0.8446	0.0100	46.0	50.0	-8.0	30.0
trans-1,3-Dichloropropene	Ave	0.4013	0.3550	0.0100	44.2	50.0	-11.5	30.0
Ethyl methacrylate	Lin2		0.2514	0.0100	48.7	50.0	-2.6	30.0
1,1,2-Trichloroethane	Ave	0.2193	0.2012	0.0100	45.9	50.0	-8.2	30.0
Tetrachloroethene	Ave	0.4475	0.4075	0.0100	45.5	50.0	-9.0	30.0
1,3-Dichloropropane	Ave	0.3769	0.3369	0.0100	44.7	50.0	-10.6	30.0
2-Hexanone	Ave	0.1369	0.1559	0.0100	56.9	50.0	13.8	30.0
Dibromochloromethane	Ave	0.2756	0.2523	0.0100	45.8	50.0	-8.4	30.0
1,2-Dibromoethane	Ave	0.2229	0.2055	0.0100	46.1	50.0	-7.8	30.0
Chlorobenzene	Ave	1.097	1.004	0.3000	45.7	50.0	-8.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3866	0.3726	0.0100	48.2	50.0	-3.6	30.0
Ethylbenzene	Ave	0.6185	0.5694	0.0100	46.0	50.0	-7.9	30.0
m&p-Xylene	Ave	1.475	1.329	0.0100	45.0	50.0	-9.9	30.0
o-Xylene	Ave	1.524	1.409	0.0100	46.2	50.0	-7.5	30.0
Styrene	Ave	1.179	1.091	0.0100	46.2	50.0	-7.5	30.0
Bromoform	Ave	0.1553	0.1455	0.1000	46.8	50.0	-6.3	30.0
Isopropylbenzene	Ave	3.722	3.359	0.0100	45.1	50.0	-9.7	30.0
Bromobenzene	Ave	0.8786	0.7999	0.0100	45.5	50.0	-9.0	30.0
1,1,2,2-Tetrachloroethane	Lin2		0.3999	0.3000	48.1	50.0	-3.8	30.0
1,2,3-Trichloropropane	Ave	0.4777	0.4635	0.0100	48.5	50.0	-3.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1690	0.1596	0.0100	47.2	50.0	-5.6	30.0
N-Propylbenzene	Ave	4.401	3.906	0.0100	44.4	50.0	-11.2	30.0
2-Chlorotoluene	Lin2		2.261	0.0100	48.9	50.0	-2.1	30.0
1,3,5-Trimethylbenzene	Ave	3.130	2.879	0.0100	46.0	50.0	-8.0	30.0
4-Chlorotoluene	Ave	2.908	2.594	0.0100	44.6	50.0	-10.8	30.0
tert-Butylbenzene	Ave	2.956	2.680	0.0100	45.3	50.0	-9.3	30.0
1,2,4-Trimethylbenzene	Ave	3.211	2.935	0.0100	45.7	50.0	-8.6	30.0
sec-Butylbenzene	Ave	4.234	3.820	0.0100	45.1	50.0	-9.8	30.0
1,3-Dichlorobenzene	Ave	1.800	1.607	0.0100	44.6	50.0	-10.7	30.0
p-Isopropyltoluene	Ave	3.706	3.412	0.0100	46.0	50.0	-7.9	30.0
1,4-Dichlorobenzene	Ave	1.744	1.595	0.0100	45.7	50.0	-8.5	30.0
1,2-Dichlorobenzene	Ave	1.522	1.401	0.0100	46.0	50.0	-7.9	30.0
n-Butylbenzene	Ave	3.228	2.910	0.0100	45.1	50.0	-9.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0647	0.0603	0.0100	46.6	50.0	-6.8	30.0
1,2,4-Trichlorobenzene	Ave	1.036	0.9580	0.0100	46.2	50.0	-7.5	30.0
Hexachlorobutadiene	Ave	0.7098	0.6503	0.0100	45.8	50.0	-8.4	30.0
Naphthalene	Ave	1.457	1.373	0.0100	47.1	50.0	-5.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7991	0.7788	0.0100	48.7	50.0	-2.5	30.0
Dibromofluoromethane	Ave	0.2646	0.2543	0.0100	48.0	50.0	-3.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2409	0.0100	46.6	50.0	-6.9	30.0
Toluene-d8 (Surr)	Ave	1.370	1.271	0.0100	46.4	50.0	-7.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9346	0.0100	47.4	50.0	-5.3	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18S0705ICV1.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 05-Jul-2017 18:26:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV 1
Misc. Info.: 500-0046351-014
Operator ID: EA Instrument ID: CMS18
Sublist:
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:50:13 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:50:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	86	226273	50.0	48.7	
2 Chloromethane	50	1.758	1.752	0.006	89	309726	50.0	46.7	
3 Vinyl chloride	62	1.891	1.891	0.000	83	286985	50.0	50.5	
4 Butadiene	39	1.939	1.940	-0.001	93	301021	50.0	46.5	
5 Bromomethane	94	2.250	2.250	0.000	90	90546	50.0	47.7	
6 Chloroethane	64	2.367	2.362	0.005	91	131305	50.0	46.3	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	83	401573	50.0	50.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	343254	50.0	47.3	
10 Ethyl ether	59	2.977	2.972	0.005	97	158994	50.0	50.3	
11 Acrolein	56	3.095	3.095	0.000	95	596015	2000.0	1976.0	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	211424	50.0	47.4	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	83	221349	50.0	47.1	
14 Acetone	43	3.261	3.261	0.000	97	36629	50.0	51.7	
15 Iodomethane	142	3.330	3.330	0.000	98	403056	50.0	48.9	
16 Carbon disulfide	76	3.389	3.389	0.000	99	692541	50.0	47.6	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	124779	50.0	47.0	
20 Methyl acetate	43	3.598	3.593	0.005	98	443049	250.0	236.9	
21 Methylene Chloride	84	3.683	3.683	-0.001	93	215692	50.0	50.3	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175585	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.839	3.844	0.000	98	109636	500.0	513.7	
24 Acrylonitrile	53	3.935	3.935	0.000	98	469707	500.0	478.9	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	88	231852	50.0	48.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	93	413516	50.0	49.3	
27 Hexane	57	4.245	4.245	0.000	95	407146	50.0	46.6	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	444312	50.0	48.5	
29 Vinyl acetate	43	4.449	4.448	-0.001	99	261850	50.0	46.2	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	59	251593	50.0	47.0	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	242217	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	63	53306	50.0	52.3	
39 Chlorobromomethane	128	5.214	5.214	0.000	92	96753	50.0	47.1	
40 Tetrahydrofuran	42	5.267	5.267	0.000	86	63582	100.0	93.6	
41 Chloroform	83	5.299	5.294	0.005	84	356098	50.0	47.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	58	197027	50.0	48.0	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	320856	50.0	47.1	
44 Cyclohexane	56	5.545	5.545	0.000	94	517488	50.0	47.4	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	281968	50.0	47.9	
46 Carbon tetrachloride	117	5.652	5.652	0.000	76	294765	50.0	48.7	
47 Isobutyl alcohol	43	5.770	5.778	0.000	96	120745	1250.0	1232.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	186691	50.0	46.6	
49 Benzene	78	5.861	5.861	0.000	96	812290	50.0	48.1	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	246848	50.0	48.0	
53 n-Heptane	43	6.134	6.134	0.000	79	396182	50.0	45.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	774889	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	228678	50.0	47.0	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	427327	50.0	46.9	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	217391	50.0	48.7	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18363	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	83580	50.0	46.2	
64 1,4-Dioxane	88	6.883	6.883	-0.005	49	20710	1000.0	1022.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	215163	50.0	47.7	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	74010	50.0	49.4	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	260439	50.0	47.2	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	97	128264	50.0	55.9	
$ 70 Toluene-d8 (Surr)	98	7.797	7.803	-0.006	95	706171	50.0	46.4	
71 Toluene	92	7.872	7.872	0.000	91	469396	50.0	46.0	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	197296	50.0	44.2	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	139741	50.0	48.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	111838	50.0	45.9	
75 Tetrachloroethene	166	8.471	8.471	-0.001	90	226452	50.0	45.5	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	187232	50.0	44.7	
77 2-Hexanone	43	8.584	8.584	0.000	98	86636	50.0	56.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	140223	50.0	45.8	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	114194	50.0	46.1	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	555755	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	557899	50.0	45.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	207093	50.0	48.2	
85 Ethylbenzene	106	9.584	9.584	0.000	99	316461	50.0	46.0	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	738658	50.0	45.0	
87 o-Xylene	91	10.296	10.296	0.000	93	783156	50.0	46.2	
88 Styrene	104	10.317	10.317	0.000	92	606139	50.0	46.2	
89 Bromoform	173	10.590	10.590	0.000	98	80844	50.0	46.8	
90 Isopropylbenzene	105	10.895	10.899	0.000	98	1045747	50.0	45.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.151	0.000	90	290937	50.0	47.4	
94 Bromobenzene	156	11.387	11.392	0.000	90	248989	50.0	45.5	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.397	0.006	64	124477	50.0	48.1	
96 1,2,3-Trichloropropane	75	11.462	11.467	0.000	50	144270	50.0	48.5	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.499	0.000	69	49680	50.0	47.2	
98 N-Propylbenzene	91	11.585	11.590	0.000	97	1215984	50.0	44.4	
99 2-Chlorotoluene	91	11.703	11.702	0.006	98	703837	50.0	48.9	
101 4-Chlorotoluene	91	11.869	11.868	0.006	93	807562	50.0	44.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.868	0.000	87	896129	50.0	46.0	
103 tert-Butylbenzene	119	12.323	12.328	0.000	89	834297	50.0	45.3	
105 1,2,4-Trimethylbenzene	105	12.393	12.398	0.000	66	913765	50.0	45.7	
106 sec-Butylbenzene	105	12.623	12.628	0.000	94	1189197	50.0	45.1	
107 1,3-Dichlorobenzene	146	12.746	12.751	0.000	97	500307	50.0	44.6	
108 4-Isopropyltoluene	119	12.821	12.826	0.000	96	1062237	50.0	46.0	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	96	311287	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.869	0.000	94	496520	50.0	45.7	
113 1,2-Dichlorobenzene	146	13.324	13.329	0.000	76	436255	50.0	46.0	
114 n-Butylbenzene	91	13.329	13.335	0.000	98	905937	50.0	45.1	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.218	0.000	51	18757	50.0	46.6	
117 1,2,4-Trichlorobenzene	180	15.068	15.074	0.000	93	298203	50.0	46.2	
118 Hexachlorobutadiene	225	15.244	15.251	0.000	93	202436	50.0	45.8	
119 Naphthalene	128	15.303	15.309	0.000	99	427430	50.0	47.1	
120 1,2,3-Trichlorobenzene	180	15.533	15.540	0.000	93	242437	50.0	48.7	
S 123 Xylenes, Total	100				0		100.0	91.3	
S 127 1,2-Dichloroethene, Total	96				0		100.0	96.3	

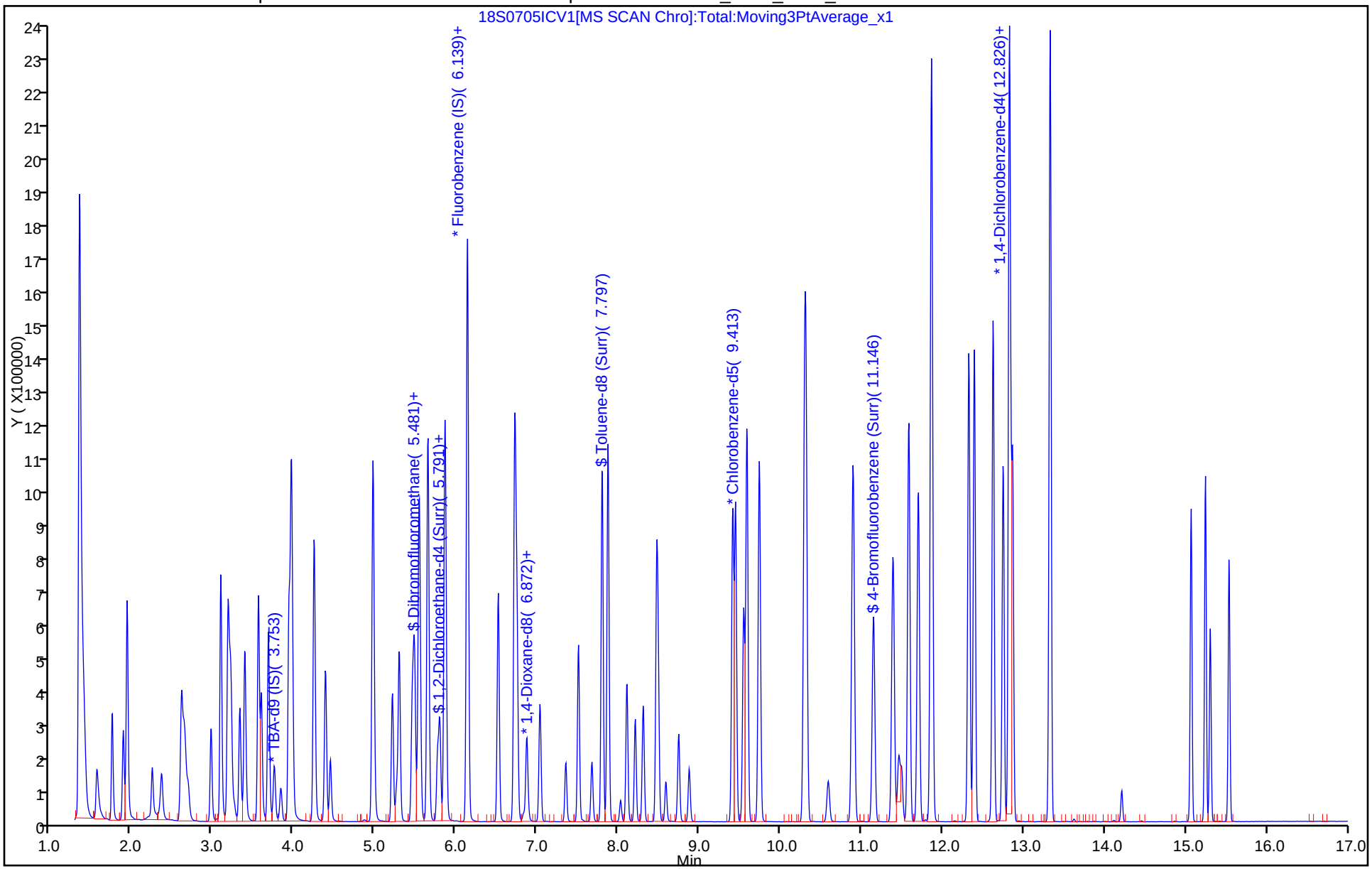
Reagents:

8260 MEGA SPK_00104	Amount Added:	5.00	Units: uL	
8260 KET SPK_00100	Amount Added:	5.00	Units: uL	
8260 ACR SPK_00129	Amount Added:	5.00	Units: uL	
8260 GAS SPK_00129	Amount Added:	5.00	Units: uL	
VA/2CEVE SPK_00114	Amount Added:	5.00	Units: uL	
8260LOW IS/SS_00146	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Jul-2017 18:50:14 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18S0705ICV1.d				
Injection Date:	05-Jul-2017 18:26:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCVIS 500-407232/2 Calibration Date: 10/27/2017 08:21

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1027.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2998	0.2257	0.0100	37.6	50.0	-24.7	50.0
Chloromethane	Ave	0.4281	0.4007	0.1000	46.8	50.0	-6.4	50.0
Vinyl chloride	Lin2		0.3504	0.0100	47.8	50.0	-4.4	20.0
Butadiene	Ave	0.4180	0.3942	0.0100	47.2	50.0	-5.7	50.0
Bromomethane	Lin2		0.1865	0.0100	76.4	50.0	52.8*	50.0
Chloroethane	Ave	0.1829	0.2364	0.0100	64.6	50.0	29.3	50.0
Dichlorofluoromethane	Ave	0.5092	0.5227	0.0100	51.3	50.0	2.6	50.0
Trichlorofluoromethane	Ave	0.4679	0.4433	0.0100	47.4	50.0	-5.3	50.0
Ethyl ether	Ave	0.2041	0.1713	0.0100	42.0	50.0	-16.1	50.0
Acrolein	Ave	0.0195	0.0139	0.0010	1420	2000	-28.8	50.0
1,1-Dichloroethene	Ave	0.2881	0.2821	0.0100	49.0	50.0	-2.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3031	0.3110	0.0100	51.3	50.0	2.6	50.0
Acetone	Ave	0.0457	0.0327	0.0100	35.8	50.0	-28.5	50.0
Iodomethane	Ave	0.5313	0.5291	0.0100	49.8	50.0	-0.4	50.0
Carbon disulfide	Ave	0.9382	0.9147	0.0100	48.7	50.0	-2.5	50.0
3-Chloropropene	Ave	0.1713	0.1666	0.0100	48.6	50.0	-2.7	50.0
Methyl acetate	Ave	0.1207	0.0930	0.0100	77.0	100	-23.0	50.0
Methylene Chloride	Ave	0.2769	0.2745	0.0100	49.6	50.0	-0.9	50.0
tert-Butyl alcohol	Ave	1.215	1.196	0.0100	492	500	-1.6	50.0
Acrylonitrile	Ave	0.0633	0.0546	0.0010	431	500	-13.7	50.0
trans-1,2-Dichloroethene	Ave	0.3110	0.3013	0.0100	48.4	50.0	-3.1	50.0
Methyl tert-butyl ether	Ave	0.5416	0.4239	0.0100	39.1	50.0	-21.7	50.0
Hexane	Ave	0.5632	0.5713	0.0100	50.7	50.0	1.4	50.0
1,1-Dichloroethane	Ave	0.5914	0.5463	0.1000	46.2	50.0	-7.6	50.0
Vinyl acetate	Ave	0.3658	0.2882	0.0100	39.4	50.0	-21.2	50.0
2,2-Dichloropropane	Ave	0.3456	0.4081	0.0100	59.0	50.0	18.1	50.0
cis-1,2-Dichloroethene	Ave	0.3242	0.3065	0.0100	47.3	50.0	-5.5	50.0
Methyl Ethyl Ketone	Ave	0.0657	0.0522	0.0100	39.7	50.0	-20.6	50.0
Bromochloromethane	Ave	0.1324	0.1138	0.0100	43.0	50.0	-14.1	50.0
Tetrahydrofuran	Lin2		0.0356	0.0100	81.0	100	-19.0	50.0
Chloroform	Ave	0.4856	0.4335	0.0100	44.6	50.0	-10.7	20.0
1,1,1-Trichloroethane	Ave	0.4394	0.4418	0.0100	50.3	50.0	0.6	50.0
Cyclohexane	Ave	0.7044	0.7799	0.0100	55.4	50.0	10.7	50.0
1,1-Dichloropropene	Ave	0.3798	0.3845	0.0100	50.6	50.0	1.3	50.0
Carbon tetrachloride	Ave	0.3906	0.4020	0.0100	51.5	50.0	2.9	50.0
Isobutyl alcohol	Ave	0.5578	0.6448	0.0010	1440	1250	15.6	50.0
Benzene	Ave	1.089	1.089	0.0100	50.0	50.0	0.0	50.0
1,2-Dichloroethane	Ave	0.3316	0.2682	0.0100	40.4	50.0	-19.1	50.0
Heptane	Ave	0.5573	0.6208	0.0100	55.7	50.0	11.4	50.0
Trichloroethene	Ave	0.3137	0.3109	0.0100	49.6	50.0	-0.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCVIS 500-407232/2 Calibration Date: 10/27/2017 08:21

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1027.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5880	0.6156	0.0100	52.3	50.0	4.7	50.0
1,2-Dichloropropane	Ave	0.2883	0.2702	0.0100	46.8	50.0	-6.3	20.0
Dibromomethane	Ave	0.1168	0.1008	0.0100	43.1	50.0	-13.7	50.0
1,4-Dioxane	Ave	1.103	1.061	0.0010	962	1000	-3.8	50.0
Bromodichloromethane	Ave	0.2909	0.2571	0.0100	44.2	50.0	-11.6	50.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.1049	0.0100	38.9	50.0	-22.2	50.0
cis-1,3-Dichloropropene	Ave	0.4961	0.3858	0.0100	38.9	50.0	-22.2	50.0
methyl isobutyl ketone	Ave	0.2066	0.1561	0.0100	37.8	50.0	-24.4	50.0
Toluene	Ave	0.9176	0.9114	0.0100	49.7	50.0	-0.7	20.0
trans-1,3-Dichloropropene	Ave	0.4013	0.2955	0.0100	36.8	50.0	-26.4	50.0
Ethyl methacrylate	Lin2		0.2078	0.0100	40.2	50.0	-19.7	50.0
1,1,2-Trichloroethane	Ave	0.2193	0.1726	0.0100	39.3	50.0	-21.3	50.0
Tetrachloroethene	Ave	0.4475	0.4556	0.0100	50.9	50.0	1.8	50.0
1,3-Dichloropropane	Ave	0.3769	0.3017	0.0100	40.0	50.0	-20.0	50.0
2-Hexanone	Ave	0.1369	0.1034	0.0100	37.8	50.0	-24.5	50.0
Dibromochloromethane	Ave	0.2756	0.2089	0.0100	37.9	50.0	-24.2	50.0
1,2-Dibromoethane	Ave	0.2229	0.1685	0.0100	37.8	50.0	-24.4	50.0
Chlorobenzene	Ave	1.097	1.030	0.3000	46.9	50.0	-6.2	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3866	0.3281	0.0100	42.4	50.0	-15.1	50.0
Ethylbenzene	Ave	0.6185	0.5970	0.0100	48.3	50.0	-3.5	20.0
m&p-Xylene	Ave	1.475	1.481	0.0100	50.2	50.0	0.4	50.0
o-Xylene	Ave	1.524	1.497	0.0100	49.1	50.0	-1.8	50.0
Styrene	Ave	1.179	1.109	0.0100	47.0	50.0	-5.9	50.0
Bromoform	Ave	0.1553	0.1094	0.1000	35.2	50.0	-29.5	50.0
Isopropylbenzene	Ave	3.722	3.690	0.0100	49.6	50.0	-0.9	50.0
Bromobenzene	Ave	0.8786	0.7884	0.0100	44.9	50.0	-10.3	50.0
1,1,2,2-Tetrachloroethane	Lin2		0.3224	0.3000	38.7	50.0	-22.6	50.0
1,2,3-Trichloropropane	Ave	0.4777	0.3508	0.0100	36.7	50.0	-26.6	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1690	0.1084	0.0100	32.1	50.0	-35.8	50.0
N-Propylbenzene	Ave	4.401	4.433	0.0100	50.4	50.0	0.7	50.0
2-Chlorotoluene	Lin2		2.409	0.0100	52.2	50.0	4.4	50.0
1,3,5-Trimethylbenzene	Ave	3.130	3.081	0.0100	49.2	50.0	-1.6	50.0
4-Chlorotoluene	Ave	2.908	2.776	0.0100	47.7	50.0	-4.6	50.0
tert-Butylbenzene	Ave	2.956	2.884	0.0100	48.8	50.0	-2.4	50.0
1,2,4-Trimethylbenzene	Ave	3.211	3.014	0.0100	46.9	50.0	-6.1	50.0
sec-Butylbenzene	Ave	4.234	4.140	0.0100	48.9	50.0	-2.2	50.0
1,3-Dichlorobenzene	Ave	1.800	1.629	0.0100	45.2	50.0	-9.5	50.0
p-Isopropyltoluene	Ave	3.706	3.634	0.0100	49.0	50.0	-1.9	50.0
1,4-Dichlorobenzene	Ave	1.744	1.574	0.0100	45.1	50.0	-9.8	50.0
1,2-Dichlorobenzene	Ave	1.522	1.304	0.0100	42.8	50.0	-14.4	50.0
n-Butylbenzene	Ave	3.228	3.135	0.0100	48.6	50.0	-2.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCVIS 500-407232/2 Calibration Date: 10/27/2017 08:21

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1027.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0647	0.0376	0.0100	29.1	50.0	-41.9	50.0
1,2,4-Trichlorobenzene	Ave	1.036	0.7830	0.0100	37.8	50.0	-24.4	50.0
Hexachlorobutadiene	Ave	0.7098	0.6582	0.0100	46.4	50.0	-7.3	50.0
Naphthalene	Ave	1.457	0.8993	0.0100	30.9	50.0	-38.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7991	0.5529	0.0100	34.6	50.0	-30.8	50.0
Dibromofluoromethane	Ave	0.2646	0.2336	0.0100	44.1	50.0	-11.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.1988	0.0100	38.4	50.0	-23.1	50.0
Toluene-d8 (Surr)	Ave	1.370	1.279	0.0100	46.7	50.0	-6.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.8705	0.0100	44.1	50.0	-11.8	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18C1027.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Oct-2017 08:21:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 500-0048650-002
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 08:41:14 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: huntjj Date: 27-Oct-2017 08:41:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	158735	50.0	37.6	
2 Chloromethane	50	1.784	1.784	0.000	89	281842	50.0	46.8	
3 Vinyl chloride	62	1.913	1.913	0.000	97	246421	50.0	47.8	
4 Butadiene	39	1.945	1.945	0.000	90	277271	50.0	47.2	
5 Bromomethane	94	2.266	2.266	0.000	91	131200	50.0	76.4	
6 Chloroethane	64	2.378	2.378	0.000	98	166267	50.0	64.6	
7 Dichlorofluoromethane	67	2.613	2.613	0.000	84	367636	50.0	51.3	
8 Trichlorofluoromethane	101	2.656	2.656	0.000	79	311744	50.0	47.4	
10 Ethyl ether	59	2.967	2.967	0.000	98	120495	50.0	42.0	
11 Acrolein	56	3.090	3.090	0.000	95	390116	2000.0	1425.0	
12 1,1-Dichloroethene	96	3.186	3.186	0.000	85	198416	50.0	49.0	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	90	218735	50.0	51.3	
14 Acetone	43	3.255	3.255	0.000	95	23005	50.0	35.8	
15 Iodomethane	142	3.330	3.330	0.000	97	372095	50.0	49.8	
16 Carbon disulfide	76	3.395	3.395	0.000	100	643356	50.0	48.7	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	117179	50.0	48.6	
20 Methyl acetate	43	3.592	3.592	0.000	97	130763	100.0	77.0	
21 Methylene Chloride	84	3.683	3.683	0.000	92	193046	50.0	49.6	
* 22 TBA-d9 (IS)	65	3.737	3.737	0.000	0	96130	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.817	3.817	0.000	91	57508	500.0	492.2	
24 Acrylonitrile	53	3.929	3.929	0.000	99	383889	500.0	431.3	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	93	211921	50.0	48.4	
26 Methyl tert-butyl ether	73	3.967	3.967	0.000	78	298145	50.0	39.1	
27 Hexane	57	4.250	4.250	0.000	93	401808	50.0	50.7	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	96	384214	50.0	46.2	
29 Vinyl acetate	43	4.443	4.443	0.000	100	202698	50.0	39.4	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	69	287015	50.0	59.0	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	94	215541	50.0	47.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.989	0.000	36	36695	50.0	39.7	
39 Chlorobromomethane	128	5.213	5.213	0.000	91	80044	50.0	43.0	
40 Tetrahydrofuran	42	5.262	5.262	0.000	91	50118	100.0	81.0	
41 Chloroform	83	5.294	5.294	0.000	83	304861	50.0	44.6	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	61	164274	50.0	44.1	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	90	310759	50.0	50.3	
44 Cyclohexane	56	5.545	5.545	0.000	91	548500	50.0	55.4	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	89	270449	50.0	50.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	80	282745	50.0	51.5	
47 Isobutyl alcohol	43	5.764	5.764	0.000	96	77479	1250.0	1445.0	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	139839	50.0	38.4	
49 Benzene	78	5.861	5.861	0.000	96	765858	50.0	50.0	
50 1,2-Dichloroethane	62	5.871	5.871	0.000	52	188627	50.0	40.4	
53 n-Heptane	43	6.134	6.134	0.000	84	436648	50.0	55.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	93	703322	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	95	218656	50.0	49.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	432955	50.0	52.3	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	91	190007	50.0	46.8	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	12872	1000.0	1000.0	
63 Dibromomethane	93	6.866	6.866	0.000	89	70878	50.0	43.1	
64 1,4-Dioxane	88	6.883	6.883	0.000	47	13652	1000.0	961.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	180816	50.0	44.2	
67 2-Chloroethyl vinyl ether	63	7.348	7.348	0.000	90	56705	50.0	38.9	
68 cis-1,3-Dichloropropene	75	7.508	7.508	0.000	87	208661	50.0	38.9	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	95	84424	50.0	37.8	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	691863	50.0	46.7	
71 Toluene	92	7.872	7.872	0.000	93	492892	50.0	49.7	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	94	159798	50.0	36.8	
73 Ethyl methacrylate	69	8.209	8.209	0.000	85	112384	50.0	40.2	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	92	93320	50.0	39.3	
75 Tetrachloroethene	166	8.471	8.471	0.000	88	246376	50.0	50.9	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	163154	50.0	40.0	
77 2-Hexanone	43	8.584	8.584	0.000	95	55918	50.0	37.8	
79 Chlorodibromomethane	129	8.744	8.744	0.000	92	112997	50.0	37.9	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	91118	50.0	37.8	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	540821	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	556789	50.0	46.9	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	95	177443	50.0	42.4	
85 Ethylbenzene	106	9.584	9.584	0.000	99	322878	50.0	48.3	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	0	800910	50.0	50.2	
87 o-Xylene	91	10.296	10.296	0.000	93	809675	50.0	49.1	
88 Styrene	104	10.317	10.317	0.000	93	600003	50.0	47.0	
89 Bromoform	173	10.590	10.590	0.000	98	59185	50.0	35.2	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1104550	50.0	49.6	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	260589	50.0	44.1	
94 Bromobenzene	156	11.387	11.387	0.000	89	236012	50.0	44.9	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.392	0.000	57	96518	50.0	38.7	
96 1,2,3-Trichloropropane	75	11.457	11.457	0.000	55	105004	50.0	36.7	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	54	32462	50.0	32.1	
98 N-Propylbenzene	91	11.585	11.585	0.000	98	1327098	50.0	50.4	
99 2-Chlorotoluene	91	11.703	11.703	0.000	97	721280	50.0	52.2	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	89	922235	50.0	49.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.863	11.863	0.000	86	830885	50.0	47.7	
103 tert-Butylbenzene	119	12.323	12.323	0.000	92	863303	50.0	48.8	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	902310	50.0	46.9	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1239418	50.0	48.9	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	487664	50.0	45.2	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	1087864	50.0	49.0	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	78	299358	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.863	0.000	96	471103	50.0	45.1	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	69	390303	50.0	42.8	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	938420	50.0	48.6	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	52	11254	50.0	29.1	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	234381	50.0	37.8	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	94	197049	50.0	46.4	
119 Naphthalene	128	15.303	15.303	0.000	99	269226	50.0	30.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	94	165507	50.0	34.6	
S 123 Xylenes, Total	100				0		100.0	99.3	
S 127 1,2-Dichloroethene, Total	96				0		100.0	95.7	

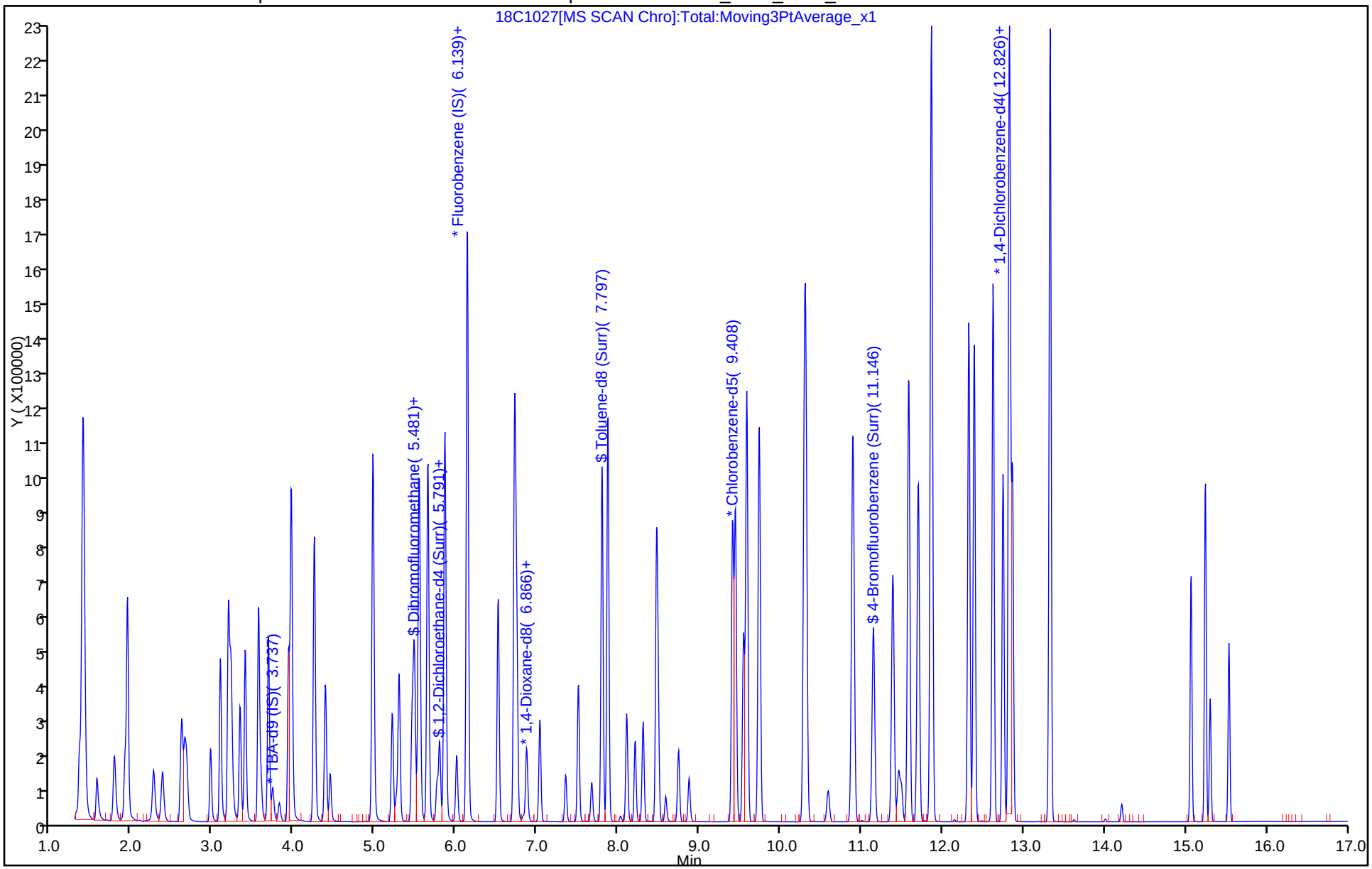
Reagents:

8260/624KETWK_00282	Amount Added:	2.50	Units: uL	
8260/624GASWK_00475	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00358	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00297	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 27-Oct-2017 08:41:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18C1027.d				
Injection Date:	27-Oct-2017 08:21:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCV 500-407232/3 Calibration Date: 10/27/2017 08:46

Instrument ID: CMS18 Calib Start Date: 06/30/2017 18:41

GC Column: DB624 ID: 0.20(mm) Calib End Date: 06/30/2017 22:00

Lab File ID: 18D1027.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.1396	0.0010	1630	2000	-18.7	50.0
Isopropyl alcohol	Ave	0.9581	0.8552	0.0010	446	500	-10.7	50.0
Acetonitrile	Ave	0.0230	0.0159	0.0010	347	500	-30.6	50.0
Isopropyl ether	Ave	1.174	0.8805	0.0100	37.5	50.0	-25.0	50.0
2-Chloro-1,3-butadiene	Ave	0.6406	0.5821	0.0100	45.4	50.0	-9.1	50.0
Tert-butyl ethyl ether	Ave	0.8952	0.6298	0.0010	35.2	50.0	-29.6	50.0
Propionitrile	Ave	0.0219	0.0161	0.0010	366	500	-26.7	50.0
Ethyl acetate	Ave	0.1396	0.1017	0.0100	72.8	100	-27.2	50.0
Methacrylonitrile	Ave	0.1095	0.0827	0.0100	378	500	-24.4	50.0
Isooctane	Ave	1.641	1.722	0.0100	52.5	50.0	5.0	50.0
Tert-amyl methyl ether	Ave	0.5850	0.4058	0.0100	34.7	50.0	-30.6	50.0
n-Butyl alcohol	Ave	0.3693	0.3529	0.0010	1190	1250	-4.5	50.0
Ethyl acrylate	Ave	0.1844	0.1544	0.0010	41.9	50.0	-16.3	50.0
2,3-Dichloro-1-propene	Ave	0.3684	0.3355	0.0010	45.5	50.0	-8.9	50.0
Methyl methacrylate	Ave	0.1493	0.1158	0.0100	77.6	100	-22.4	50.0
2-Nitropropane	Ave	0.0682	0.0318	0.0100	46.6	100	-53.4*	50.0
n-Butyl acetate	Ave	0.4169	0.2517	0.0010	30.2	50.0	-39.6	50.0
1-Chlorohexane	Ave	0.5127	0.5589	0.0100	54.5	50.0	9.0	50.0
Cyclohexanone	Ave	0.0135	0.0087*	0.0100	3220	5000	-35.6	50.0
2-Ethyltoluene	Ave	3.530	3.544	0.0010	50.2	50.0	0.4	50.0
Pentachloroethane	Ave	0.3740	0.3484	0.0100	46.6	50.0	-6.8	50.0
1,2,3-Trimethylbenzene	Ave	2.786	2.862	0.0010	51.4	50.0	2.7	50.0
Benzyl chloride	Ave	0.1985	0.0996	0.0010	25.1	50.0	-49.9	50.0
1,3,5-Trichlorobenzene	Ave	1.227	1.245	0.0100	50.7	50.0	1.4	50.0
2-Methylnaphthalene	Lin1		0.1687	0.0100	14.1	50.0	-71.8*	50.0
1-Methylnaphthalene	Lin1		0.1441	0.0100	15.7	50.0	-68.6*	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18D1027.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 27-Oct-2017 08:46:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048650-003
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub50
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 09:06:56 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: huntjj Date: 27-Oct-2017 09:06:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.892	2.908	-0.016	97	27679	2000.0	1625.2	
17 Isopropyl alcohol	45	3.421	3.427	-0.006	96	42400	500.0	446.3	
18 Acetonitrile	41	3.534	3.534	0.000	99	124505	500.0	346.8	
* 22 TBA-d9 (IS)	65	3.737	3.737	0.000	0	99154	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	96	688450	50.0	37.5	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	97	455135	50.0	45.4	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	99	492422	50.0	35.2	
36 Propionitrile	54	5.042	5.042	0.000	99	125592	500.0	366.3	
37 Ethyl acetate	43	5.053	5.053	0.000	99	158988	100.0	72.8	
38 Methacrylonitrile	41	5.203	5.203	0.000	96	646782	500.0	377.8	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	64	177073	50.0	42.8	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	155642	50.0	38.5	
51 Isooctane	57	5.946	5.946	0.000	97	1346764	50.0	52.5	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	84	317284	50.0	34.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	781877	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	93	43736	1250.0	1194.4	
57 Ethyl acrylate	55	6.626	6.626	0.000	98	120744	50.0	41.9	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	93	262323	50.0	45.5	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	13870	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	-0.001	88	181111	100.0	77.6	
66 2-Nitropropane	43	7.268	7.268	0.000	92	38454	100.0	46.6	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	758666	50.0	45.8	
78 n-Butyl acetate	43	8.734	8.728	0.006	96	152299	50.0	30.2	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	605204	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	92	338229	50.0	54.5	
91 Cyclohexanone	55	11.034	11.034	0.000	92	269743	5000.0	3222.2	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	94	289627	50.0	47.3	
102 2-Ethyltoluene	105	12.147	12.147	0.000	97	1100612	50.0	50.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	12.334	12.334	0.000	86	108188	50.0	46.6	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	94	310538	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	93	888775	50.0	51.4	
112 Benzyl chloride	126	13.040	13.046	-0.006	98	30916	50.0	25.1	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	386521	50.0	50.7	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	81	52389	50.0	14.1	
122 1-Methylnaphthalene	142	16.544	16.539	0.005	90	44754	50.0	15.7	

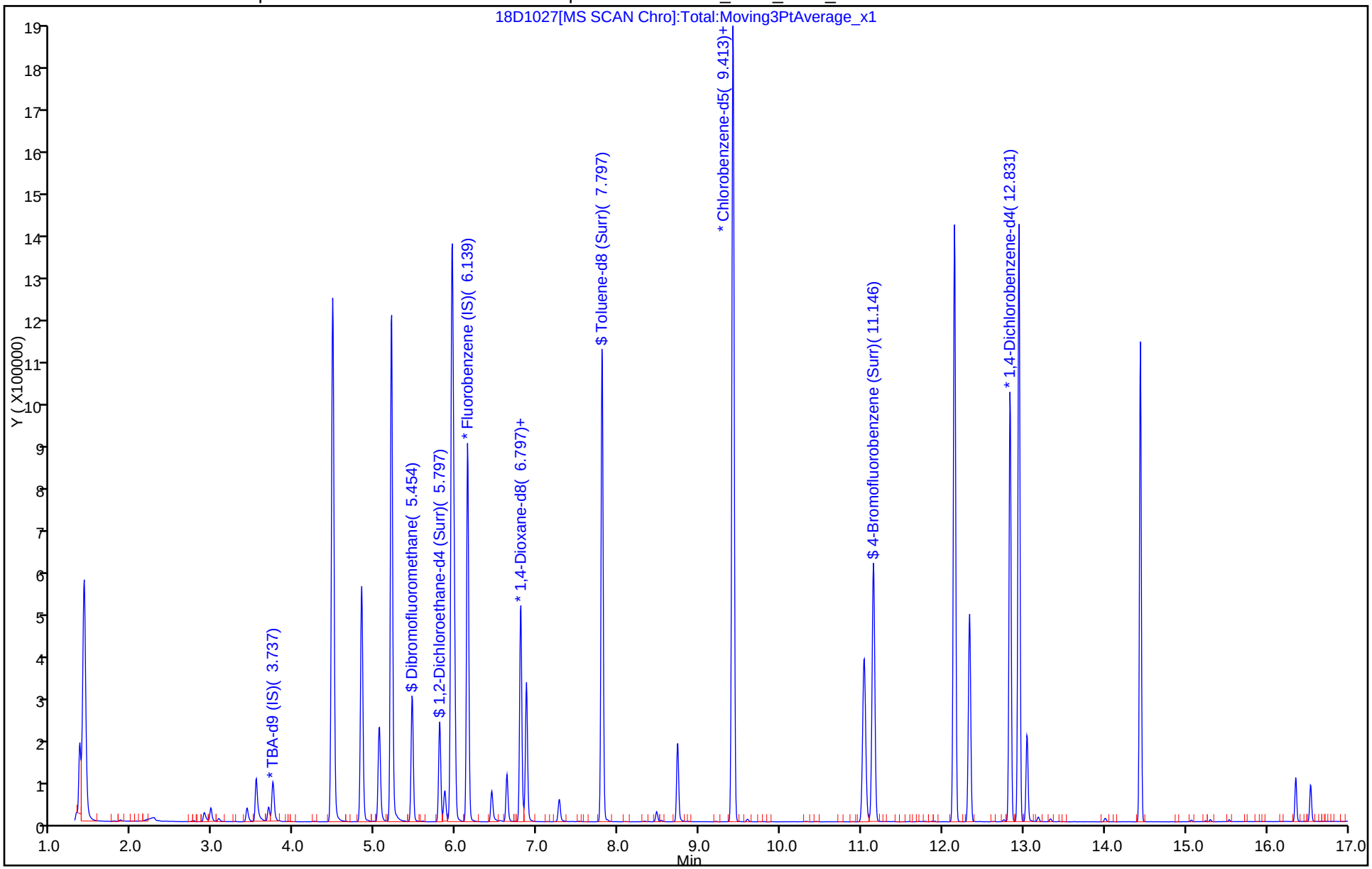
Reagents:

8260 23DCP WK_00105	Amount Added:	2.50	Units: uL	
8260/624STD2_00171	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00055	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00176	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00130	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00040	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 27-Oct-2017 09:06:56 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18D1027.d				
Injection Date:	27-Oct-2017 08:46:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCV 500-407232/3 Calibration Date: 10/27/2017 08:46

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18D1027.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2646	0.2265	0.0100	42.8	50.0	-14.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.1991	0.0100	38.5	50.0	-23.0	50.0
Toluene-d8 (Surr)	Ave	1.370	1.254	0.0100	45.8	50.0	-8.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9327	0.0100	47.3	50.0	-5.5	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18D1027.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 27-Oct-2017 08:46:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048650-003
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub50
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 09:06:56 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: huntjj Date: 27-Oct-2017 09:06:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.892	2.908	-0.016	97	27679	2000.0	1625.2	
17 Isopropyl alcohol	45	3.421	3.427	-0.006	96	42400	500.0	446.3	
18 Acetonitrile	41	3.534	3.534	0.000	99	124505	500.0	346.8	
* 22 TBA-d9 (IS)	65	3.737	3.737	0.000	0	99154	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	96	688450	50.0	37.5	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	97	455135	50.0	45.4	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	99	492422	50.0	35.2	
36 Propionitrile	54	5.042	5.042	0.000	99	125592	500.0	366.3	
37 Ethyl acetate	43	5.053	5.053	0.000	99	158988	100.0	72.8	
38 Methacrylonitrile	41	5.203	5.203	0.000	96	646782	500.0	377.8	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	64	177073	50.0	42.8	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	155642	50.0	38.5	
51 Isooctane	57	5.946	5.946	0.000	97	1346764	50.0	52.5	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	84	317284	50.0	34.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	781877	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	93	43736	1250.0	1194.4	
57 Ethyl acrylate	55	6.626	6.626	0.000	98	120744	50.0	41.9	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	93	262323	50.0	45.5	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	13870	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	-0.001	88	181111	100.0	77.6	
66 2-Nitropropane	43	7.268	7.268	0.000	92	38454	100.0	46.6	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	758666	50.0	45.8	
78 n-Butyl acetate	43	8.734	8.728	0.006	96	152299	50.0	30.2	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	605204	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	92	338229	50.0	54.5	
91 Cyclohexanone	55	11.034	11.034	0.000	92	269743	5000.0	3222.2	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	94	289627	50.0	47.3	
102 2-Ethyltoluene	105	12.147	12.147	0.000	97	1100612	50.0	50.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	12.334	12.334	0.000	86	108188	50.0	46.6	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	94	310538	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	93	888775	50.0	51.4	
112 Benzyl chloride	126	13.040	13.046	-0.006	98	30916	50.0	25.1	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	386521	50.0	50.7	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	81	52389	50.0	14.1	
122 1-Methylnaphthalene	142	16.544	16.539	0.005	90	44754	50.0	15.7	

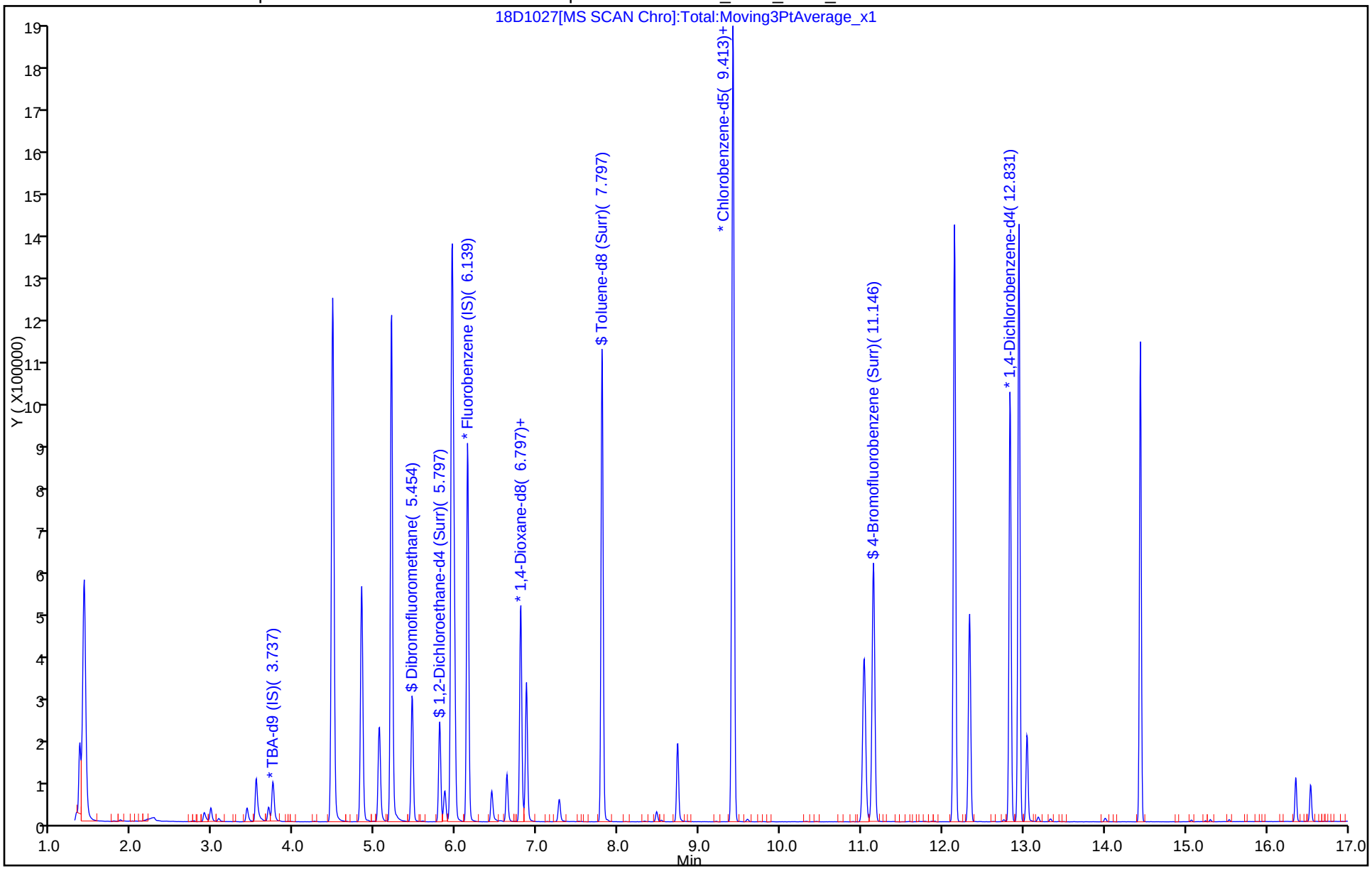
Reagents:

8260 23DCP WK_00105	Amount Added:	2.50	Units: uL	
8260/624STD2_00171	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00055	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00176	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00130	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00040	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 27-Oct-2017 09:06:56 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18D1027.d				
Injection Date:	27-Oct-2017 08:46:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18B0630.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Jun-2017 12:41:30	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0046286-002				
Operator ID:	EA	Instrument ID:	CMS18		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\8260W18cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Method Label:	TAL Chicago VOA Report				
Last Update:	03-Jul-2017 09:45:37	Calib Date:	30-Jun-2017 22:00:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK030				
First Level Reviewer: alikpalae		Date:	03-Jul-2017 09:45:37		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	88	45305	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

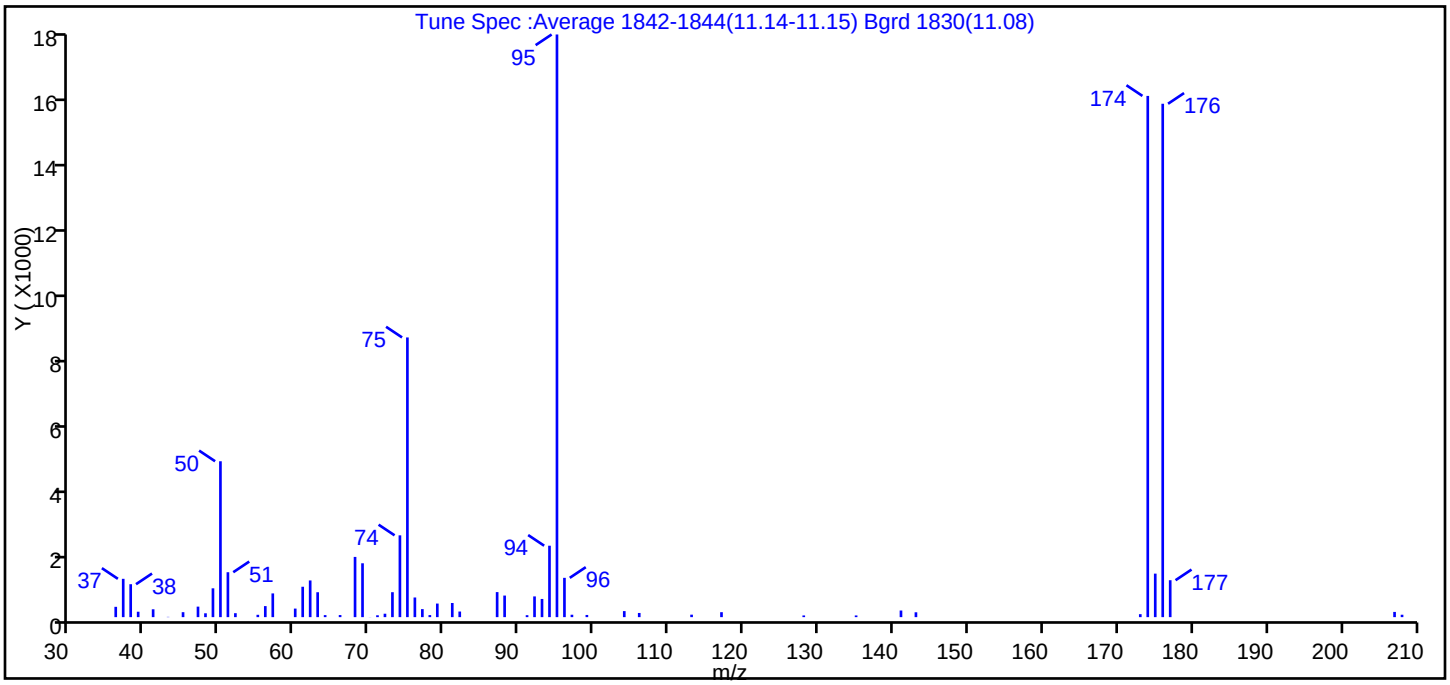
BFB STD WK_00154 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18B0630.d				
Injection Date:	30-Jun-2017 12:41:30	Instrument ID:	CMS18		
Lims ID:	BFB				
Client ID:					
Operator ID:	EA	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Tune Method:	BFB Method 8260				

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.8
75	30 to 60% of m/z 95	48.0
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	89.5
175	5 to 9% of m/z 174	7.5 (8.3)
176	Greater than 95% but less than 101% of m/z 174	88.1 (98.5)
177	5 to 9% of m/z 176	6.3 (7.2)

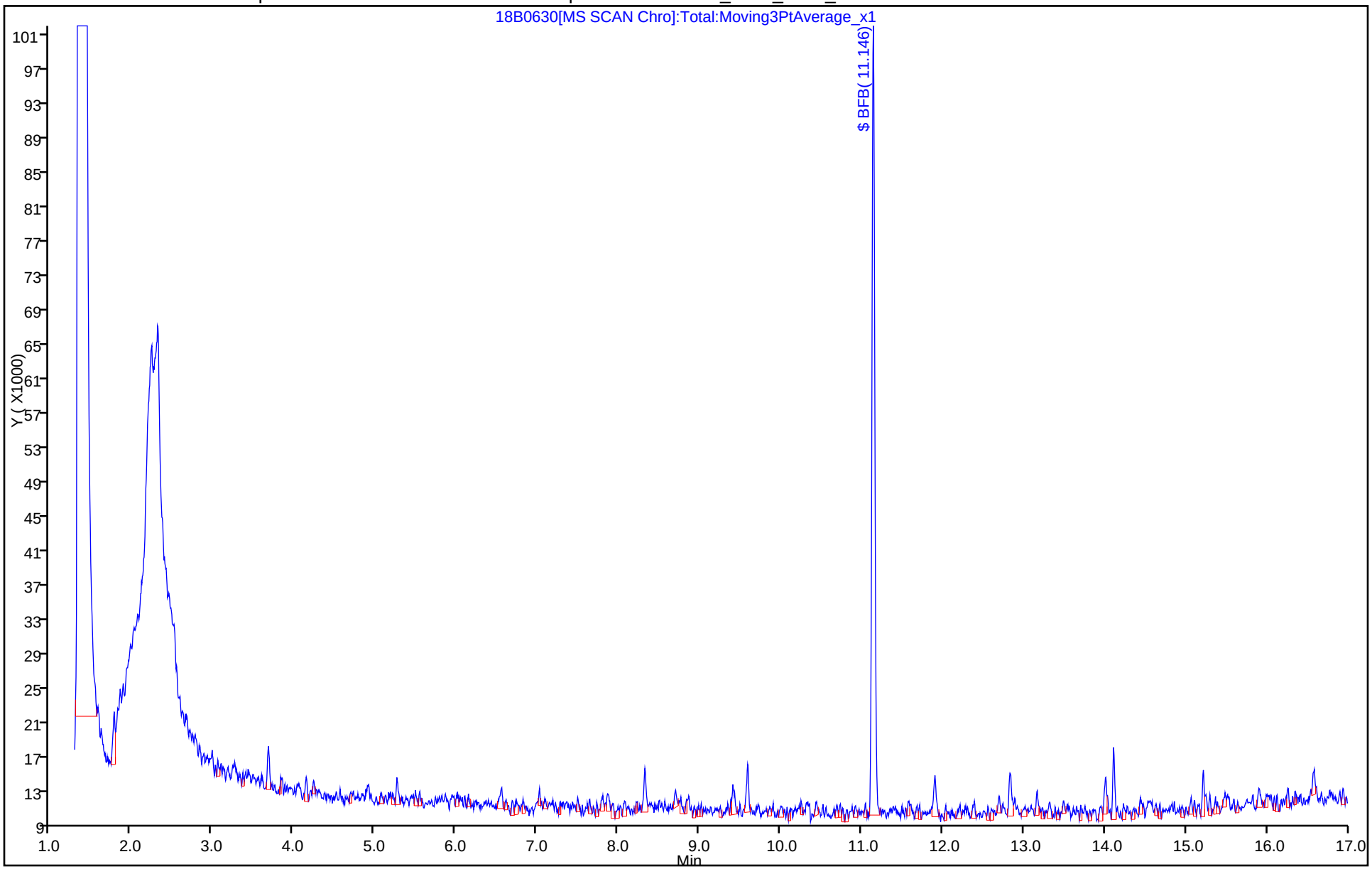
Data File: \\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18B0630.d\8260W18cps.rslt\spectra.d
Injection Date: 30-Jun-2017 12:41:30
Spectrum: Tune Spec :Average 1842-1844(11.14-11.15) Bgrd 1830(11.08)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	316	60.00	262	78.00	63	113.00	76
37.00	1174	61.00	931	79.00	416	117.00	152
38.00	1009	62.00	1124	81.00	433	128.00	52
39.00	166	63.00	763	82.00	172	135.00	52
41.00	241	64.00	62	87.00	767	141.00	203
43.00	8	66.00	64	88.00	661	143.00	149
45.00	152	68.00	1845	91.00	60	173.00	91
47.00	322	69.00	1650	92.00	635	174.00	15966
48.00	118	70.00	3	93.00	557	175.00	1333
49.00	883	71.00	57	94.00	2188	176.00	15726
50.00	4775	72.00	105	95.00	17848	177.00	1131
51.00	1376	73.00	764	96.00	1204	207.00	160
52.00	121	74.00	2506	97.00	74	208.00	74
55.00	72	75.00	8568	99.00	67		
56.00	338	76.00	602	104.00	185		
57.00	727	77.00	246	106.00	128		

Report Date: 03-Jul-2017 09:45:41 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18B0630.d				
Injection Date:	30-Jun-2017 12:41:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Jul-2017 12:47:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0046351-001				
Operator ID:	EA	Instrument ID:	CMS18		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Method Label:	TAL Chicago VOA Report				
Last Update:	05-Jul-2017 13:09:31	Calib Date:	30-Jun-2017 22:00:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: alikpalae		Date:	05-Jul-2017 13:09:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	89	61346	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

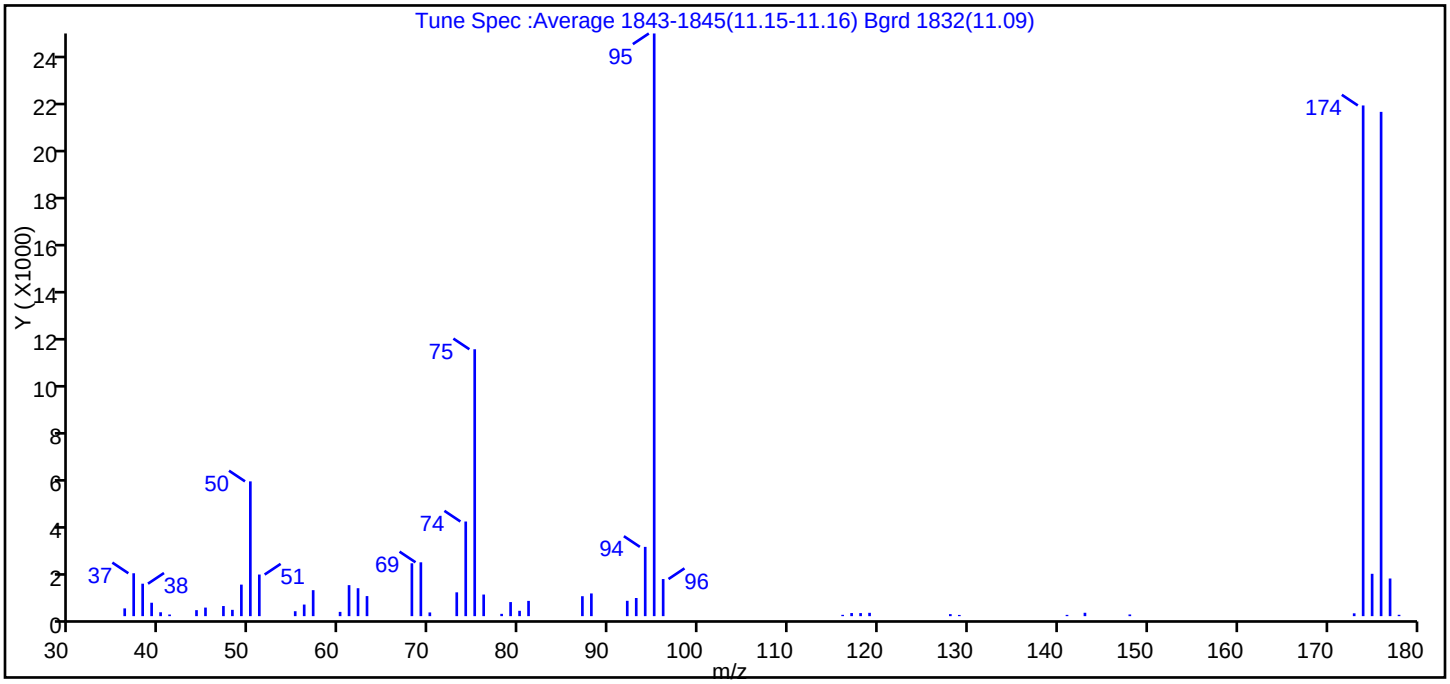
BFB STD WK_00154 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d				
Injection Date:	05-Jul-2017 12:47:30	Instrument ID:	CMS18		
Lims ID:	BFB				
Client ID:					
Operator ID:	EA	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Tune Method:	BFB Method 8260				

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.1
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	87.6
175	5 to 9% of m/z 174	7.3 (8.3)
176	Greater than 95% but less than 101% of m/z 174	86.5 (98.7)
177	5 to 9% of m/z 176	6.5 (7.5)

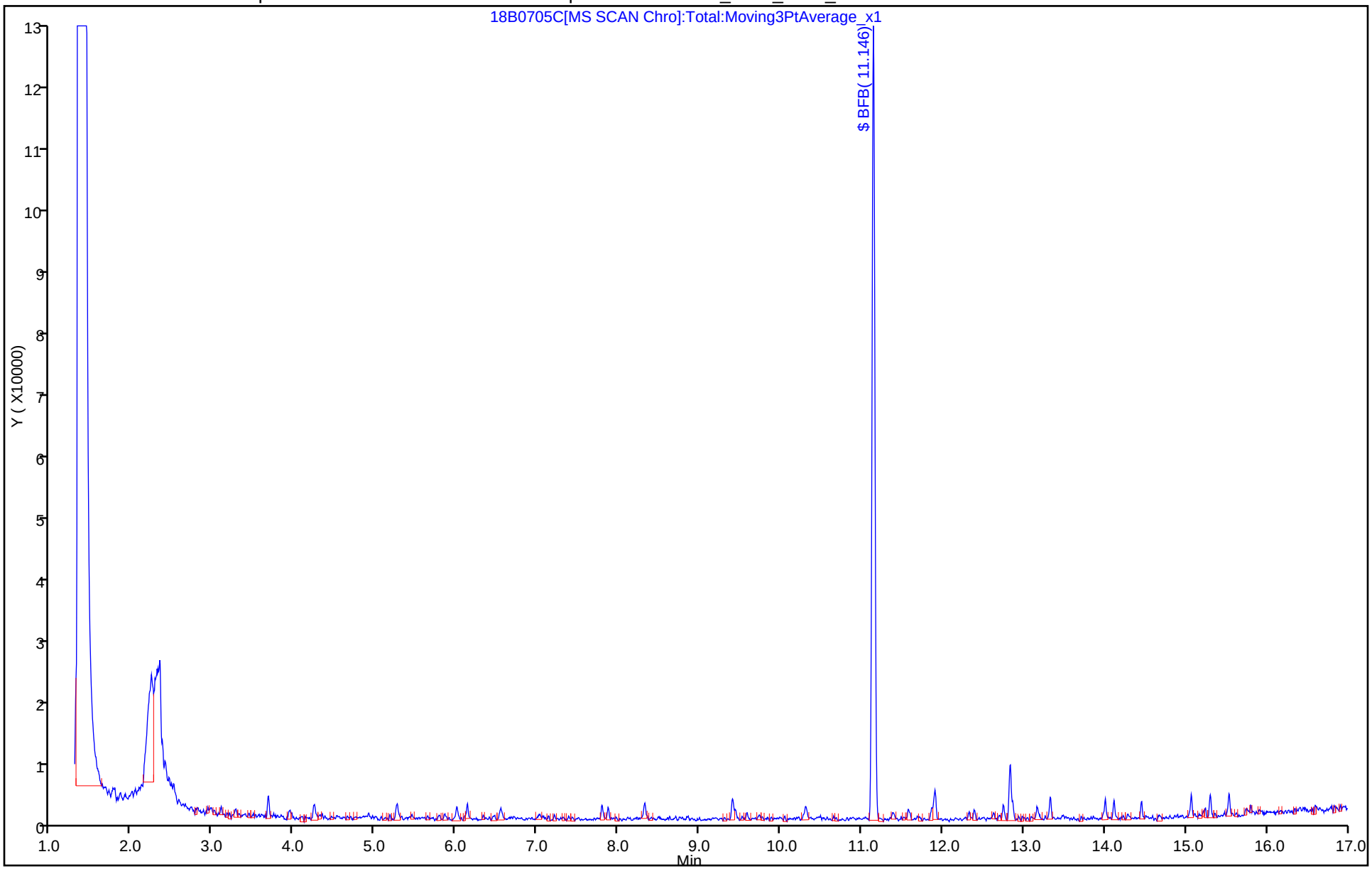
Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d\8260W18cps.rslt\spectra.d
Injection Date: 05-Jul-2017 12:47:30
Spectrum: Tune Spec :Average 1843-1845(11.15-11.16) Bgrd 1832(11.09)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	320	56.00	478	79.00	580	128.00	83
37.00	1768	57.00	1071	80.00	220	129.00	50
38.00	1338	60.00	176	81.00	629	141.00	53
39.00	553	61.00	1278	87.00	822	143.00	139
40.00	160	62.00	1152	88.00	936	148.00	69
41.00	67	63.00	827	92.00	632	173.00	116
44.00	247	68.00	2180	93.00	748	174.00	21056
45.00	353	69.00	2220	94.00	2856	175.00	1746
47.00	417	70.00	153	95.00	24024	176.00	20792
48.00	260	73.00	982	96.00	1530	177.00	1552
49.00	1300	74.00	3902	116.00	54	178.00	56
50.00	5557	75.00	11004	117.00	128		
51.00	1715	76.00	891	118.00	126		
55.00	203	78.00	95	119.00	137		

Report Date: 05-Jul-2017 13:09:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d				
Injection Date:	05-Jul-2017 12:47:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18B1027.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	27-Oct-2017 07:56:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0048650-001				
Operator ID:	JH	Instrument ID:	CMS18		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Method Label:	TAL Chicago VOA Report				
Last Update:	27-Oct-2017 08:18:23	Calib Date:	05-Jul-2017 17:12:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: huntjj		Date:	27-Oct-2017 08:18:23		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	90	47252	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

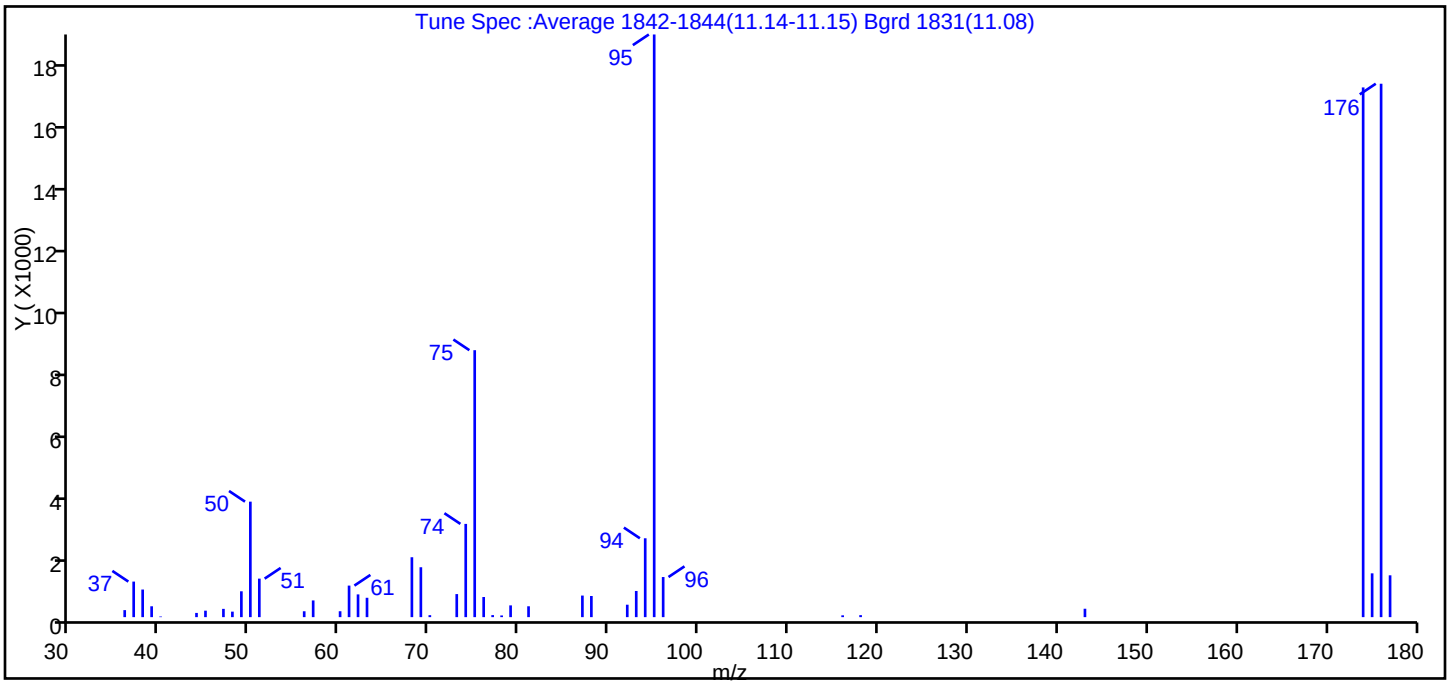
BFB STD WK_00166 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18B1027.d				
Injection Date:	27-Oct-2017 07:56:30	Instrument ID:	CMS18		
Lims ID:	BFB				
Client ID:					
Operator ID:	JH	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Tune Method:	BFB Method 8260				

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.8
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	90.9
175	5 to 9% of m/z 174	7.5 (8.3)
176	Greater than 95% but less than 101% of m/z 174	91.5 (100.7)
177	5 to 9% of m/z 176	7.2 (7.8)

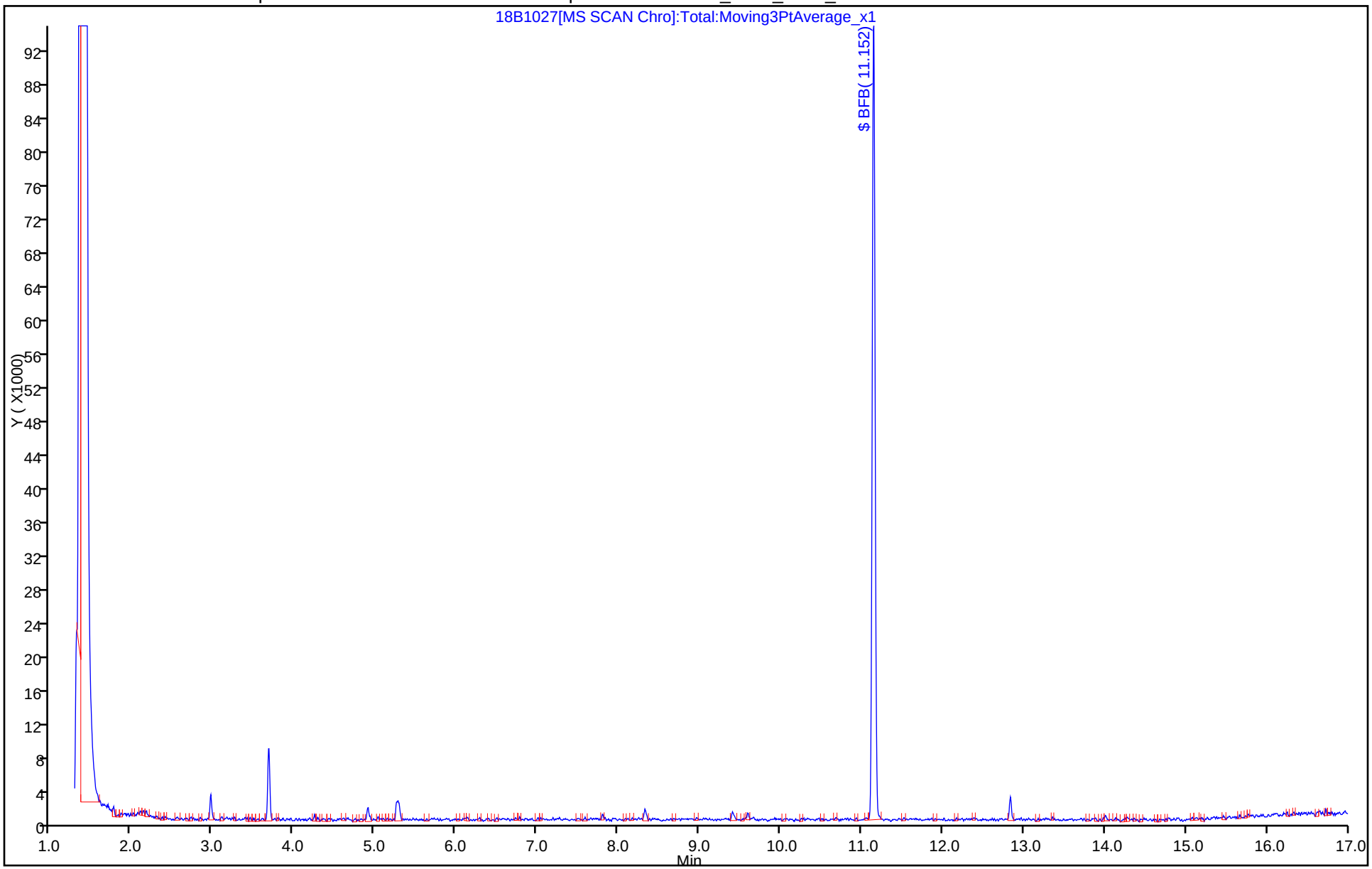
Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18B1027.d\8260W18cps.rslt\spectra.d
Injection Date: 27-Oct-2017 07:56:30
Spectrum: Tune Spec :Average 1842-1844(11.14-11.15) Bgrd 1831(11.08)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	228	51.00	1251	74.00	3029	94.00	2562
37.00	1155	56.00	191	75.00	8672	95.00	18928
38.00	897	57.00	543	76.00	654	96.00	1303
39.00	353	60.00	192	77.00	66	116.00	59
40.00	20	61.00	1025	78.00	55	118.00	65
44.00	137	62.00	739	79.00	382	143.00	273
45.00	210	63.00	629	81.00	353	174.00	17208
47.00	269	68.00	1946	87.00	701	175.00	1423
48.00	179	69.00	1621	88.00	687	176.00	17328
49.00	840	70.00	64	92.00	404	177.00	1359
50.00	3752	73.00	749	93.00	850		

Report Date: 27-Oct-2017 08:18:25 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18B1027.d				
Injection Date:	27-Oct-2017 07:56:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407232/6

Matrix: Water | Lab File ID: 18M1027.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 10:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	ND		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	ND		0.0010	0.00035
75-34-3	1,1-Dichloroethane	ND		0.0010	0.00041
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00039
563-58-6	1,1-Dichloropropene	ND		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	ND		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	ND		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	ND		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	ND		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020
106-93-4	1,2-Dibromoethane	ND		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	ND		0.0010	0.00033
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00039
78-87-5	1,2-Dichloropropane	ND		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	ND		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	ND		0.0010	0.00040
142-28-9	1,3-Dichloropropane	ND		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	ND		0.0010	0.00036
123-91-1	1,4-Dioxane	ND		0.10	0.041
594-20-7	2,2-Dichloropropane	ND		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	ND		0.0020	0.00077
95-49-8	2-Chlorotoluene	ND		0.0010	0.00031
591-78-6	2-Hexanone	ND		0.0050	0.0016
106-43-4	4-Chlorotoluene	ND		0.0010	0.00035
67-64-1	Acetone	ND		0.0050	0.0017
107-02-8	Acrolein	ND		0.10	0.023
107-13-1	Acrylonitrile	ND		0.020	0.0045
71-43-2	Benzene	ND		0.00050	0.00015
108-86-1	Bromobenzene	ND		0.0010	0.00036
74-97-5	Bromochloromethane	ND		0.0010	0.00043
75-27-4	Bromodichloromethane	ND		0.0010	0.00037
75-25-2	Bromoform	ND		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 500-407232/6
Matrix: Water | Lab File ID: 18M1027.d
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 10:02
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	ND		0.0020	0.00080
75-15-0	Carbon disulfide	ND		0.0020	0.00045
56-23-5	Carbon tetrachloride	ND		0.0010	0.00038
108-90-7	Chlorobenzene	ND		0.0010	0.00039
75-00-3	Chloroethane	ND		0.0010	0.00051
67-66-3	Chloroform	ND		0.0020	0.00037
74-87-3	Chloromethane	ND		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	ND		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	ND		0.0010	0.00042
110-82-7	Cyclohexane	ND		0.0010	0.00049
124-48-1	Dibromochloromethane	ND		0.0010	0.00049
74-95-3	Dibromomethane	ND		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	ND		0.0020	0.00067
100-41-4	Ethylbenzene	ND		0.00050	0.00018
74-88-4	Iodomethane	ND		0.0025	0.00066
108-20-3	Isopropyl ether	ND		0.0010	0.00028
98-82-8	Isopropylbenzene	ND		0.0010	0.00039
79-20-9	Methyl acetate	ND		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	ND		0.0050	0.0021
108-10-1	methyl isobutyl ketone	ND		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	ND		0.0010	0.00039
108-87-2	Methylcyclohexane	ND		0.0010	0.00032
75-09-2	Methylene Chloride	ND		0.0050	0.0016
91-20-3	Naphthalene	ND		0.0010	0.00034
104-51-8	n-Butylbenzene	ND		0.0010	0.00039
103-65-1	N-Propylbenzene	ND		0.0010	0.00041
99-87-6	p-Isopropyltoluene	ND		0.0010	0.00036
135-98-8	sec-Butylbenzene	ND		0.0010	0.00040
100-42-5	Styrene	ND		0.0010	0.00039
994-05-8	Tert-amyl methyl ether	ND		0.0010	0.00040
75-65-0	tert-Butyl alcohol	ND		0.050	0.012
637-92-3	Tert-butyl ethyl ether	ND		0.0010	0.00026
98-06-6	tert-Butylbenzene	ND		0.0010	0.00040
127-18-4	Tetrachloroethene	ND		0.0010	0.00037
108-88-3	Toluene	ND		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	ND		0.0010	0.00035

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-136132-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 500-407232/6
Matrix: Water
Lab File ID: 18M1027.d
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/27/2017 10:02
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 407232
Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	ND		0.0050	0.0012
79-01-6	Trichloroethene	ND		0.00050	0.00016
75-69-4	Trichlorofluoromethane	ND		0.0010	0.00043
108-05-4	Vinyl acetate	ND		0.0020	0.00091
75-01-4	Vinyl chloride	ND		0.00050	0.00020
1330-20-7	Xylenes, Total	ND		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		75-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-124
1868-53-7	Dibromofluoromethane	85		75-120
2037-26-5	Toluene-d8 (Surr)	91		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18M1027.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Oct-2017 10:02:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048650-006
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 14:10:25 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: huntjj Date: 27-Oct-2017 14:10:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Ethyl ether	59	2.972	2.967	0.005	94	9818		2.98	
* 22 TBA-d9 (IS)	65	3.737	3.737	0.000	0	104747	1000.0	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	180768	50.0	42.3	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	162859	50.0	39.0	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	807434	50.0	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	13773	1000.0	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	799331	50.0	45.4	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	642542	50.0	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	95	281762	50.0	48.1	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	94	296647	50.0	50.0	

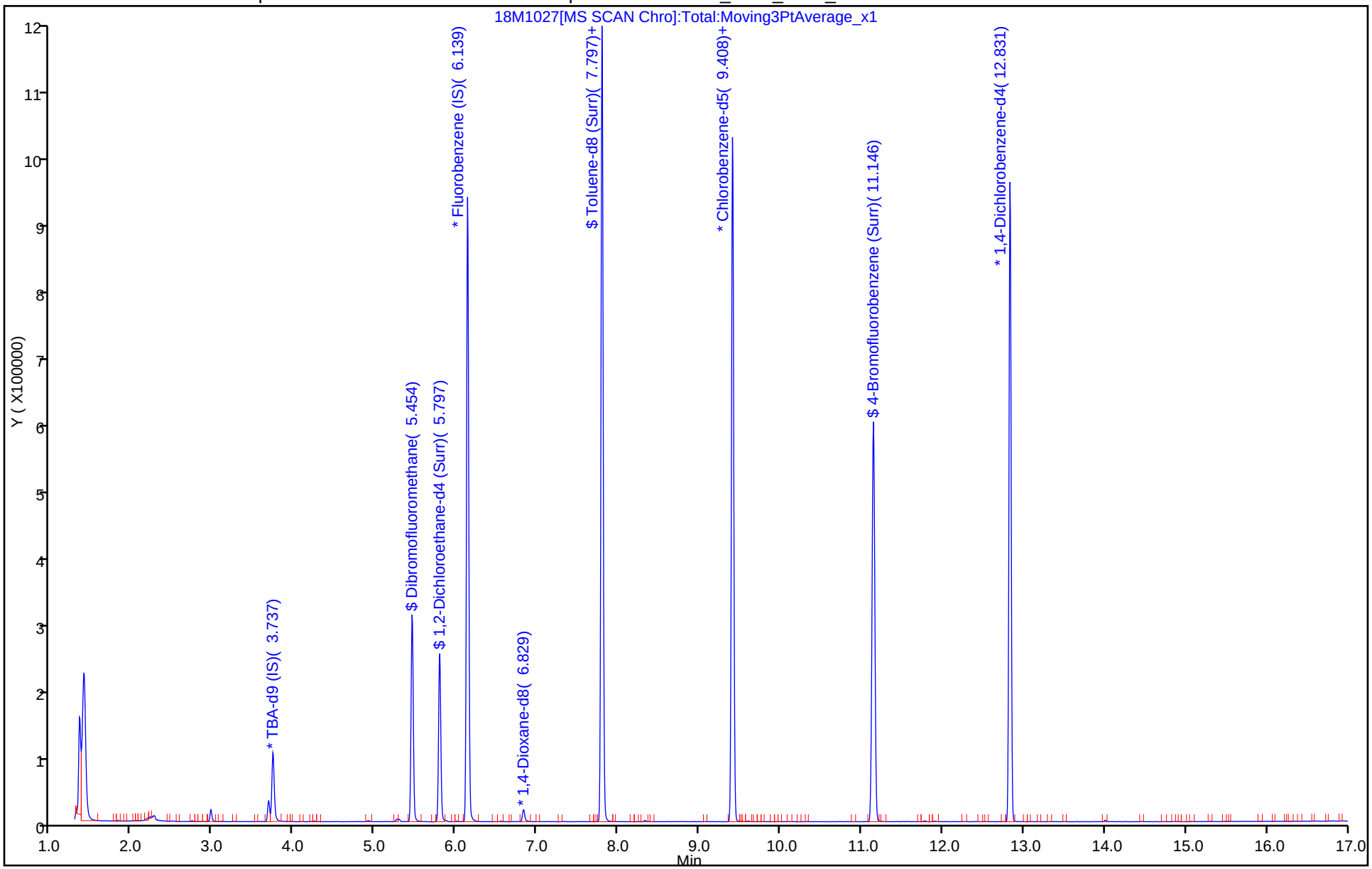
Reagents:

8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Oct-2017 14:10:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18M1027.d				
Injection Date:	27-Oct-2017 10:02:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18M1027.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Oct-2017 10:02:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048650-006
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 14:10:25 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: huntjj Date: 27-Oct-2017 14:10:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	42.3	84.61
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	39.0	77.97
$ 70 Toluene-d8 (Surr)	50.0	45.4	90.83
$ 92 4-Bromofluorobenzene (Surr)	50.0	48.1	96.26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: | Lab Sample ID: LCS 500-407232/4
Matrix: Water | Lab File ID: 18S1027.d
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 09:11
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.0421		0.0010	0.00046
71-55-6	1,1,1-Trichloroethane	0.0488		0.0010	0.00038
79-34-5	1,1,2,2-Tetrachloroethane	0.0386		0.0010	0.00040
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.0484		0.0010	0.00046
79-00-5	1,1,2-Trichloroethane	0.0391		0.0010	0.00035
75-34-3	1,1-Dichloroethane	0.0450		0.0010	0.00041
75-35-4	1,1-Dichloroethene	0.0460		0.0010	0.00039
563-58-6	1,1-Dichloropropene	0.0487		0.0010	0.00030
87-61-6	1,2,3-Trichlorobenzene	0.0340		0.0010	0.00046
96-18-4	1,2,3-Trichloropropane	0.0358		0.0010	0.00041
120-82-1	1,2,4-Trichlorobenzene	0.0373		0.0010	0.00034
95-63-6	1,2,4-Trimethylbenzene	0.0473		0.0010	0.00036
96-12-8	1,2-Dibromo-3-Chloropropane	0.0281		0.0050	0.0020
106-93-4	1,2-Dibromoethane	0.0373		0.0010	0.00039
95-50-1	1,2-Dichlorobenzene	0.0424		0.0010	0.00033
107-06-2	1,2-Dichloroethane	0.0394		0.0010	0.00039
78-87-5	1,2-Dichloropropane	0.0466		0.0010	0.00043
108-67-8	1,3,5-Trimethylbenzene	0.0489		0.0010	0.00025
541-73-1	1,3-Dichlorobenzene	0.0449		0.0010	0.00040
142-28-9	1,3-Dichloropropane	0.0401		0.0010	0.00036
106-46-7	1,4-Dichlorobenzene	0.0451		0.0010	0.00036
123-91-1	1,4-Dioxane	0.954		0.10	0.041
594-20-7	2,2-Dichloropropane	0.0561		0.0010	0.00044
110-75-8	2-Chloroethyl vinyl ether	0.0371		0.0020	0.00077
95-49-8	2-Chlorotoluene	0.0522		0.0010	0.00031
591-78-6	2-Hexanone	0.0345		0.0050	0.0016
106-43-4	4-Chlorotoluene	0.0475		0.0010	0.00035
67-64-1	Acetone	0.0414		0.0050	0.0017
107-02-8	Acrolein	1.32		0.10	0.023
107-13-1	Acrylonitrile	0.402		0.020	0.0045
71-43-2	Benzene	0.0496		0.00050	0.00015
108-86-1	Bromobenzene	0.0448		0.0010	0.00036
74-97-5	Bromochloromethane	0.0435		0.0010	0.00043
75-27-4	Bromodichloromethane	0.0427		0.0010	0.00037
75-25-2	Bromoform	0.0352		0.0010	0.00048

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136132-1
SDG No.:
Client Sample ID: | Lab Sample ID: LCS 500-407232/4
Matrix: Water | Lab File ID: 18S1027.d
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 09:11
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 407232 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-83-9	Bromomethane	0.0738		0.0020	0.00080
75-15-0	Carbon disulfide	0.0464		0.0020	0.00045
56-23-5	Carbon tetrachloride	0.0488		0.0010	0.00038
108-90-7	Chlorobenzene	0.0468		0.0010	0.00039
75-00-3	Chloroethane	0.0594		0.0010	0.00051
67-66-3	Chloroform	0.0433		0.0020	0.00037
74-87-3	Chloromethane	0.0445		0.0010	0.00032
156-59-2	cis-1,2-Dichloroethene	0.0460		0.0010	0.00041
10061-01-5	cis-1,3-Dichloropropene	0.0393		0.0010	0.00042
110-82-7	Cyclohexane	0.0519		0.0010	0.00049
124-48-1	Dibromochloromethane	0.0375		0.0010	0.00049
74-95-3	Dibromomethane	0.0407		0.0010	0.00027
75-71-8	Dichlorodifluoromethane	0.0303		0.0020	0.00067
100-41-4	Ethylbenzene	0.0483		0.00050	0.00018
74-88-4	Iodomethane	0.0474		0.0025	0.00066
98-82-8	Isopropylbenzene	0.0495		0.0010	0.00039
79-20-9	Methyl acetate	0.0759		0.0050	0.0020
78-93-3	Methyl Ethyl Ketone	0.0378		0.0050	0.0021
108-10-1	methyl isobutyl ketone	0.0361		0.0050	0.0022
1634-04-4	Methyl tert-butyl ether	0.0373		0.0010	0.00039
108-87-2	Methylcyclohexane	0.0495		0.0010	0.00032
75-09-2	Methylene Chloride	0.0483		0.0050	0.0016
91-20-3	Naphthalene	0.0307		0.0010	0.00034
104-51-8	n-Butylbenzene	0.0475		0.0010	0.00039
103-65-1	N-Propylbenzene	0.0494		0.0010	0.00041
99-87-6	p-Isopropyltoluene	0.0485		0.0010	0.00036
135-98-8	sec-Butylbenzene	0.0486		0.0010	0.00040
100-42-5	Styrene	0.0469		0.0010	0.00039
75-65-0	tert-Butyl alcohol	0.473		0.050	0.012
98-06-6	tert-Butylbenzene	0.0487		0.0010	0.00040
127-18-4	Tetrachloroethene	0.0499		0.0010	0.00037
108-88-3	Toluene	0.0496		0.00050	0.00015
156-60-5	trans-1,2-Dichloroethene	0.0469		0.0010	0.00035
10061-02-6	trans-1,3-Dichloropropene	0.0370		0.0010	0.00036
110-57-6	trans-1,4-Dichloro-2-butene	0.0317		0.0050	0.0012
79-01-6	Trichloroethene	0.0485		0.00050	0.00016

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-136132-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 500-407232/4
Matrix: Water
Lab File ID: 18S1027.d
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/27/2017 09:11
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 407232
Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-69-4	Trichlorofluoromethane	0.0407		0.0010	0.00043
108-05-4	Vinyl acetate	0.0377		0.0020	0.00091
75-01-4	Vinyl chloride	0.0413		0.00050	0.00020
1330-20-7	Xylenes, Total	0.0973		0.0010	0.00022

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		75-126
460-00-4	4-Bromofluorobenzene (Surr)	92		72-124
1868-53-7	Dibromofluoromethane	88		75-120
2037-26-5	Toluene-d8 (Surr)	95		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18S1027.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Oct-2017 09:11:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048650-004
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 14:09:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: huntjj Date: 27-Oct-2017 14:09:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	98	136652	50.0	30.3	
2 Chloromethane	50	1.784	1.784	0.000	89	285937	50.0	44.5	
3 Vinyl chloride	62	1.913	1.913	0.000	82	227612	50.0	41.3	
4 Butadiene	39	1.945	1.945	0.000	91	254719	50.0	40.6	
5 Bromomethane	94	2.266	2.266	0.000	91	135301	50.0	73.8	
6 Chloroethane	64	2.383	2.378	0.005	98	163150	50.0	59.4	
7 Dichlorofluoromethane	67	2.614	2.613	0.001	83	369014	50.0	48.2	
8 Trichlorofluoromethane	101	2.656	2.656	0.000	80	286418	50.0	40.7	
10 Ethyl ether	59	2.972	2.967	0.005	98	123197	50.0	40.2	
11 Acrolein	56	3.090	3.090	0.000	96	387383	2000.0	1324.8	
12 1,1-Dichloroethene	96	3.191	3.186	0.005	86	199102	50.0	46.0	
13 1,1,2-Trichloro-1,2,2-trif	101	3.223	3.218	0.005	82	220295	50.0	48.4	
14 Acetone	43	3.255	3.255	0.000	98	28456	50.0	41.4	
15 Iodomethane	142	3.336	3.330	0.006	97	378704	50.0	47.4	
16 Carbon disulfide	76	3.400	3.395	0.006	100	654270	50.0	46.4	
19 3-Chloro-1-propene	76	3.566	3.560	0.006	88	120101	50.0	46.7	
20 Methyl acetate	43	3.593	3.592	0.000	98	137700	100.0	75.9	
21 Methylene Chloride	84	3.683	3.683	0.000	92	200785	50.0	48.3	
* 22 TBA-d9 (IS)	65	3.737	3.737	0.000	0	98936	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.823	3.817	0.006	91	56879	500.0	473.0	
24 Acrylonitrile	53	3.930	3.929	0.001	99	382662	500.0	402.5	
25 trans-1,2-Dichloroethene	96	3.967	3.962	0.005	94	219080	50.0	46.9	
26 Methyl tert-butyl ether	73	3.972	3.967	0.005	87	303593	50.0	37.3	
27 Hexane	57	4.251	4.250	0.001	92	412586	50.0	48.8	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	97	399866	50.0	45.0	
29 Vinyl acetate	43	4.448	4.443	0.005	100	207325	50.0	37.7	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	68	291143	50.0	56.1	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	93	223974	50.0	46.0	
35 2-Butanone (MEK)	43	4.989	4.989	0.000	36	37336	50.0	37.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.213	5.213	0.000	92	86488	50.0	43.5	
40 Tetrahydrofuran	42	5.262	5.262	0.000	92	51097	100.0	77.2	
41 Chloroform	83	5.294	5.294	0.000	83	316253	50.0	43.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	61	174161	50.0	43.8	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	90	322313	50.0	48.8	
44 Cyclohexane	56	5.545	5.545	0.000	92	549437	50.0	51.9	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	88	277934	50.0	48.7	
46 Carbon tetrachloride	117	5.652	5.652	0.000	89	286486	50.0	48.8	
47 Isobutyl alcohol	43	5.764	5.764	0.000	98	77338	1250.0	1401.4	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	150707	50.0	38.8	
49 Benzene	78	5.861	5.861	0.000	96	812180	50.0	49.6	
50 1,2-Dichloroethane	62	5.871	5.871	0.000	50	196500	50.0	39.4	
53 n-Heptane	43	6.134	6.134	0.000	83	445154	50.0	53.2	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	93	751188	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	88	228630	50.0	48.5	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	436954	50.0	49.5	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	93	201933	50.0	46.6	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	14077	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.866	0.001	85	71508	50.0	40.7	
64 1,4-Dioxane	88	6.883	6.883	0.001	41	14806	1000.0	953.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	98	186627	50.0	42.7	
67 2-Chloroethyl vinyl ether	63	7.348	7.348	0.000	92	56962	50.0	37.1	
68 cis-1,3-Dichloropropene	75	7.508	7.508	0.000	88	222043	50.0	39.3	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	94	84871	50.0	36.1	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	742673	50.0	47.7	
71 Toluene	92	7.872	7.872	0.000	93	518106	50.0	49.6	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	94	168985	50.0	37.0	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	115283	50.0	39.2	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	84	97600	50.0	39.1	
75 Tetrachloroethene	166	8.471	8.471	0.000	90	254296	50.0	49.9	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	171944	50.0	40.1	
77 2-Hexanone	43	8.584	8.584	0.000	98	53738	50.0	34.5	
79 Chlorodibromomethane	129	8.744	8.744	0.000	88	117650	50.0	37.5	
80 Ethylene Dibromide	107	8.873	8.873	0.000	97	94490	50.0	37.3	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	87	568842	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	92	583942	50.0	46.8	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	94	185306	50.0	42.1	
85 Ethylbenzene	106	9.584	9.584	0.000	99	339522	50.0	48.3	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	0	820987	50.0	48.9	
87 o-Xylene	91	10.296	10.296	0.000	93	838710	50.0	48.4	
88 Styrene	104	10.317	10.317	0.000	94	629138	50.0	46.9	
89 Bromoform	173	10.590	10.590	0.000	98	62115	50.0	35.2	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1139113	50.0	49.5	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	94	279266	50.0	45.8	
94 Bromobenzene	156	11.387	11.387	0.000	91	243456	50.0	44.8	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	62	99417	50.0	38.6	
96 1,2,3-Trichloropropane	75	11.462	11.457	0.006	52	105738	50.0	35.8	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	52	33093	50.0	31.7	
98 N-Propylbenzene	91	11.585	11.585	0.000	98	1344226	50.0	49.4	
99 2-Chlorotoluene	91	11.703	11.703	0.000	97	745456	50.0	52.2	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	88	946958	50.0	48.9	
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	853618	50.0	47.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 tert-Butylbenzene	119	12.323	12.323	0.000	92	890899	50.0	48.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	939075	50.0	47.3	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1271530	50.0	48.6	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	499997	50.0	44.9	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	1112013	50.0	48.5	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	78	309179	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.863	0.001	96	486402	50.0	45.1	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	71	399092	50.0	42.4	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	948351	50.0	47.5	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	49	11225	50.0	28.1	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	239017	50.0	37.3	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	92	201015	50.0	45.8	
119 Naphthalene	128	15.303	15.303	0.000	98	276654	50.0	30.7	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	168021	50.0	34.0	
S 123 Xylenes, Total	100				0		100.0	97.3	
S 127 1,2-Dichloroethene, Total	96				0		100.0	92.9	

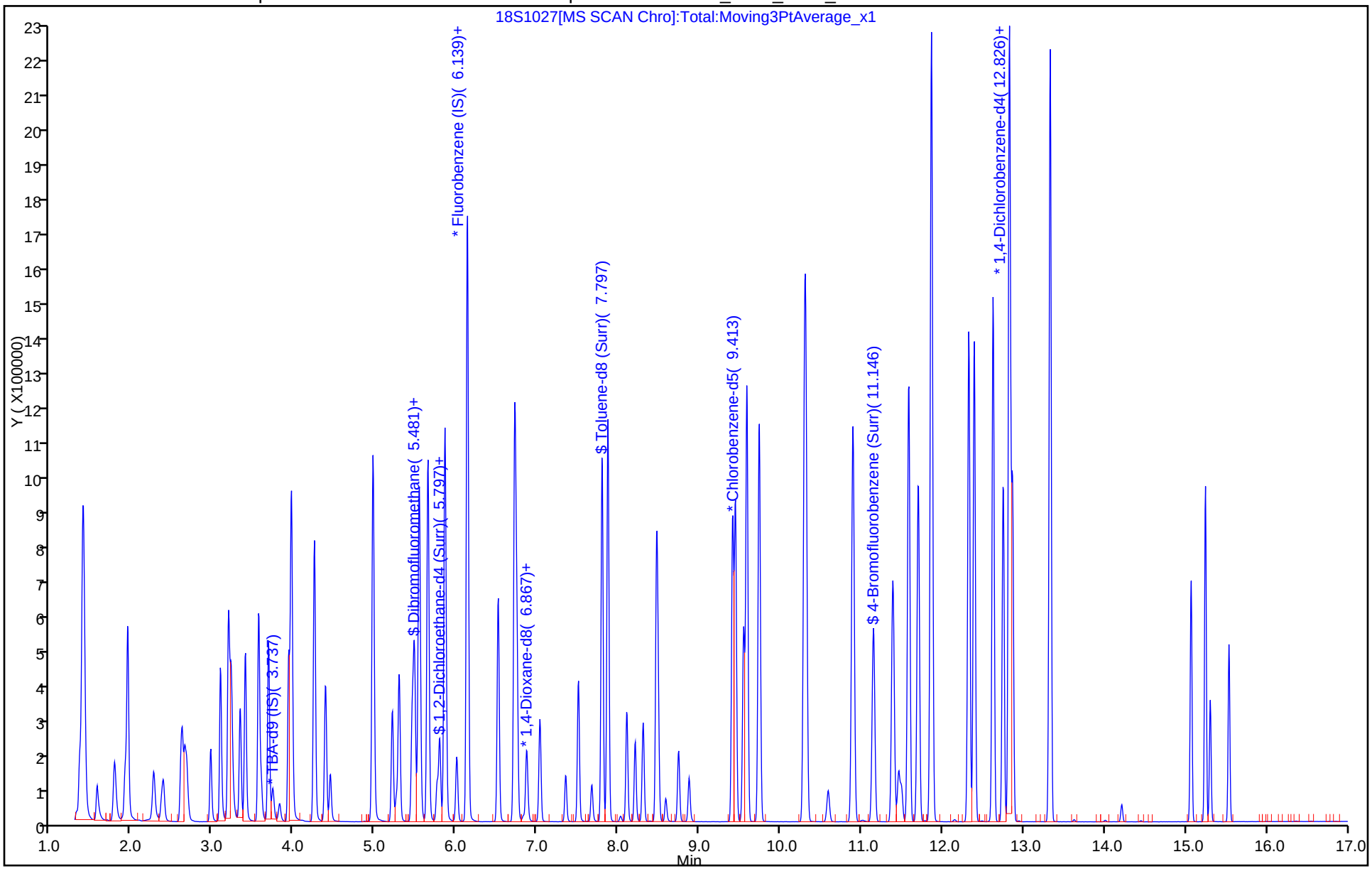
Reagents:

8260/624KETWK_00282	Amount Added:	2.50	Units: uL	
8260/624GASWK_00475	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00358	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00297	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 27-Oct-2017 14:09:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18S1027.d				
Injection Date:	27-Oct-2017 09:11:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\18S1027.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Oct-2017 09:11:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048650-004
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171027-48650.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 14:09:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: huntjj Date: 27-Oct-2017 14:09:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	43.8	87.62
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	38.8	77.56
$ 70 Toluene-d8 (Surr)	50.0	47.7	95.33
$ 92 4-Bromofluorobenzene (Surr)	50.0	45.8	91.54

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: CMS18 Start Date: 06/30/2017 12:41

Analysis Batch Number: 391473 End Date: 06/30/2017 23:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-391473/2		06/30/2017 12:41	1	18B0630.d	DB624 0.2(mm)
STD01 500-391473/3 IC		06/30/2017 13:19	1		DB624 0.2(mm)
STD02 500-391473/4 IC		06/30/2017 13:43	1		DB624 0.2(mm)
STD03 500-391473/5 IC		06/30/2017 14:08	1		DB624 0.2(mm)
STD04 500-391473/6 IC		06/30/2017 14:33	1		DB624 0.2(mm)
STD06 500-391473/8 IC		06/30/2017 15:22	1		DB624 0.2(mm)
STD08 500-391473/10 IC		06/30/2017 16:36	1		DB624 0.2(mm)
STD07 500-391473/9 ICIS		06/30/2017 17:01	1		DB624 0.2(mm)
STD09 500-391473/11 IC		06/30/2017 17:26	1		DB624 0.2(mm)
STD10 500-391473/12 IC		06/30/2017 17:51	1		DB624 0.2(mm)
STD03AP 500-391473/14 IC		06/30/2017 18:41	1	18J0630C.d	DB624 0.2(mm)
STD04AP 500-391473/15 IC		06/30/2017 19:05	1	18J0630D.d	DB624 0.2(mm)
STD05AP 500-391473/16 IC		06/30/2017 19:30	1	18J0630E.d	DB624 0.2(mm)
STD05 500-391473/26 IC		06/30/2017 19:55	1		DB624 0.2(mm)
STD06AP 500-391473/17 IC		06/30/2017 20:19	1	18J0630F.d	DB624 0.2(mm)
STD07AP 500-391473/18 IC		06/30/2017 20:44	1	18J0630G.d	DB624 0.2(mm)
STD08AP 500-391473/19 IC		06/30/2017 21:10	1	18J0630H.d	DB624 0.2(mm)
STD09AP 500-391473/20 IC		06/30/2017 21:35	1	18J0630I.d	DB624 0.2(mm)
STD10AP 500-391473/21 IC		06/30/2017 22:00	1	18J0630J.d	DB624 0.2(mm)
ICV 500-391473/24		06/30/2017 23:15	1		DB624 0.2(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: CMS18 Start Date: 07/05/2017 12:47

Analysis Batch Number: 391894 End Date: 07/05/2017 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-391894/1		07/05/2017 12:47	1	18B0705C.d	DB624 0.2(mm)
STD01 500-391894/2 IC		07/05/2017 13:26	1	18I0705A.d	DB624 0.2(mm)
STD02 500-391894/3 IC		07/05/2017 13:52	1	18I0705B.d	DB624 0.2(mm)
STD03 500-391894/4 IC		07/05/2017 14:16	1	18I0705C.d	DB624 0.2(mm)
STD04 500-391894/5 IC		07/05/2017 14:41	1	18I0705D.d	DB624 0.2(mm)
STD05 500-391894/6 IC		07/05/2017 15:06	1	18I0705E.d	DB624 0.2(mm)
STD06 500-391894/7 IC		07/05/2017 15:31	1	18I0705F.d	DB624 0.2(mm)
STD07 500-391894/8 ICIS		07/05/2017 15:56	1	18I0705G.d	DB624 0.2(mm)
STD08 500-391894/9 IC		07/05/2017 16:21	1	18I0705H.d	DB624 0.2(mm)
STD09 500-391894/10 IC		07/05/2017 16:46	1	18I0705I.d	DB624 0.2(mm)
STD10 500-391894/11 IC		07/05/2017 17:12	1	18I0705J.d	DB624 0.2(mm)
ICV 500-391894/14		07/05/2017 18:26	1	18S0705ICV1.d	DB624 0.2(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: CMS18 Start Date: 10/27/2017 07:56

Analysis Batch Number: 407232 End Date: 10/27/2017 19:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-407232/1		10/27/2017 07:56	1	18B1027.d	DB624 0.2(mm)
CCVIS 500-407232/2		10/27/2017 08:21	1	18C1027.d	DB624 0.2(mm)
CCV 500-407232/3		10/27/2017 08:46	1	18D1027.d	DB624 0.2(mm)
LCS 500-407232/4		10/27/2017 09:11	1	18S1027.d	DB624 0.2(mm)
MB 500-407232/6		10/27/2017 10:02	1	18M1027.d	DB624 0.2(mm)
ZZZZZ		10/27/2017 10:27	10		DB624 0.2(mm)
ZZZZZ		10/27/2017 10:51	10		DB624 0.2(mm)
ZZZZZ		10/27/2017 11:16	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 11:42	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 12:07	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 12:32	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 12:58	1		DB624 0.2(mm)
500-136132-1		10/27/2017 13:23	1	500-136132-g-1.d	DB624 0.2(mm)
500-136132-2		10/27/2017 13:48	1	500-136132-g-2.d	DB624 0.2(mm)
500-136132-3		10/27/2017 14:13	1	500-136132-a-3.d	DB624 0.2(mm)
500-136132-4		10/27/2017 14:38	1	500-136132-a-4.d	DB624 0.2(mm)
ZZZZZ		10/27/2017 15:03	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 15:28	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 15:53	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 16:18	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 16:43	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 17:08	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 17:34	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 17:59	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 18:24	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 18:49	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 19:14	1		DB624 0.2(mm)

8260B

TestAmerica Chicago

GC/MS Volatiles: Sample Tracking Sheet

Screener: 24 10/25

2510

Job # 500-136132

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot #	Container Lot#	Analytical Batch	misc info
1	1	2	00	18 10/27/17	48650			407232	Ace-5 DCM-5 @
2	1	2	00	18 10/27/17	48650			407232	Ace-5 DCM-5 @
3	1	2	00	18 10/27/17	48650			407232	DCM-5 @
4	1	2	00	18 10/27/17	48650			407232	DCM-5 @

TB

Reviewed by: _____ Date: 10-31-17

CHI-22-20-075/E-09/17

TestAmerica Chicago

GC/MS Volatiles: Internal Chain of Custody Form

ICOC Job Number: 500-136132

Date	Time Out	Time In	ICOC Initials	misc info
10/27/17	0830	0930	[illegible]	Water

CHI-22-20-074/A-01/08

Method 8260B SIM

Volatile Organic Compounds (GC/MS SIM) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DCA #
OMW1D-GW-102317	500-136132-1	91
EIP-DUP-102317	500-136132-2	98
	MB 240-300683/5	95
	LCS 240-300683/4	94

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	63-125

Column to be used to flag recovery values

FORM II 8260B SIM

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: X21334.D

Lab ID: LCS 240-300683/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	10.0	10.6	106	59-131	

Column to be used to flag recovery and RPD values

FORM III 8260B SIM

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab File ID: X21335.D Lab Sample ID: MB 240-300683/5

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: A3UX2 Date Analyzed: 10/26/2017 10:09

GC Column: ZB-624 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-300683/4	X21334.D	10/26/2017 09:44
OMW1D-GW-102317	500-136132-1	X21343.D	10/26/2017 13:27
EIP-DUP-102317	500-136132-2	X21344.D	10/26/2017 13:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab File ID: BFBX2077.D BFB Injection Date: 10/06/2017

Instrument ID: A3UX2 BFB Injection Time: 14:32

Analysis Batch No.: 297993

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.5	
75	30.0 - 60.0 % of mass 95	48.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	91.9	
175	5.0 - 9.0 % of mass 174	6.6	(7.2) 1
176	95.0 - 101.0 % of mass 174	89.7	(97.6) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 240-297993/3	X21217.D	10/06/2017	15:17
	IC 240-297993/4	X21218.D	10/06/2017	15:42
	IC 240-297993/5	X21219.D	10/06/2017	16:07
	ICIS 240-297993/6	X21220.D	10/06/2017	16:31
	IC 240-297993/7	X21221.D	10/06/2017	16:56
	IC 240-297993/8	X21222.D	10/06/2017	17:20
	IC 240-297993/9	X21223.D	10/06/2017	17:45
	IC 240-297993/10	X21224.D	10/06/2017	18:10
	ICV 240-297993/11	X21225.D	10/06/2017	18:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab File ID: BFBX2084.D BFB Injection Date: 10/26/2017

Instrument ID: A3UX2 BFB Injection Time: 08:33

Analysis Batch No.: 300683

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	31.2	
75	30.0 - 60.0 % of mass 95	53.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	54.8	
175	5.0 - 9.0 % of mass 174	4.4	(8.1) 1
176	95.0 - 101.0 % of mass 174	52.1	(95.0) 1
177	5.0 - 9.0 % of mass 176	3.3	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-300683/3	X21333.D	10/26/2017	09:19
	LCS 240-300683/4	X21334.D	10/26/2017	09:44
	MB 240-300683/5	X21335.D	10/26/2017	10:09
OMW1D-GW-102317	500-136132-1	X21343.D	10/26/2017	13:27
EIP-DUP-102317	500-136132-2	X21344.D	10/26/2017	13:51

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Sample No.: ICIS 240-297993/6 Date Analyzed: 10/06/2017 16:31

Instrument ID: A3UX2 GC Column: ZB-624 ID: 0.53(mm)

Lab File ID (Standard): X21220.D Heated Purge: (Y/N) Y

Calibration ID: 41784

		FB		14DD8			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		6133182	4.76	122569	6.00		
UPPER LIMIT		12266364	5.26	245138	6.50		
LOWER LIMIT		3066591	4.26	61285	5.50		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-297993/11		5237674	4.76	111619	6.00		
CCVIS 240-300683/3		3618030	4.75	76470	6.00		

FB = Fluorobenzene
14DD8 = 1,4-Dioxane (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B SIM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Sample No.: CCVIS 240-300683/3 Date Analyzed: 10/26/2017 09:19

Instrument ID: A3UX2 GC Column: ZB-624 ID: 0.53(mm)

Lab File ID (Standard): X21333.D Heated Purge: (Y/N) Y

Calibration ID: 41784

		FB		14DD8			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3618030	4.75	76470	6.00		
UPPER LIMIT		7236060	5.25	152940	6.50		
LOWER LIMIT		1809015	4.25	38235	5.50		
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-300683/4		3723988	4.75	73010	6.00		
MB 240-300683/5		3627549	4.75	75012	6.00		
500-136132-1	OMW1D-GW-102317	3662927	4.76	72404	6.00		
500-136132-2	EIP-DUP-102317	3522387	4.76	72731	6.00		

FB = Fluorobenzene
14DD8 = 1,4-Dioxane (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B SIM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136132-1

SDG No.:

Client Sample ID: OMW1D-GW-102317 | Lab Sample ID: 500-136132-1

Matrix: Water | Lab File ID: X21343.D

Analysis Method: 8260B SIM | Date Collected: 10/23/2017 12:30

Sample wt/vol: 15(mL) | Date Analyzed: 10/26/2017 13:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300683 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21343.D				
Lims ID:	500-136132-E-1				
Client ID:	OMW1D-GW-102317				
Sample Type:	Client				
Inject. Date:	26-Oct-2017 13:27:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-e-1				
Misc. Info.:	-0070052-013				
Operator ID:	002808	Instrument ID:	A3UX2		

Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m		
Limit Group:	MSV SIM ICAL		
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D		

Column 1 :	DB-624 (0.18 mm)	Det: MS SCAN
Process Host:	XAWRK004	

First Level Reviewer: macenczaks Date: 26-Oct-2017 15:40:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.164	0.000	100	1120236	8.04	
* 7 Fluorobenzene	96	4.760	4.747	0.013	100	3662927	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.998	0.001	87	72404	177.7	

Reagents:

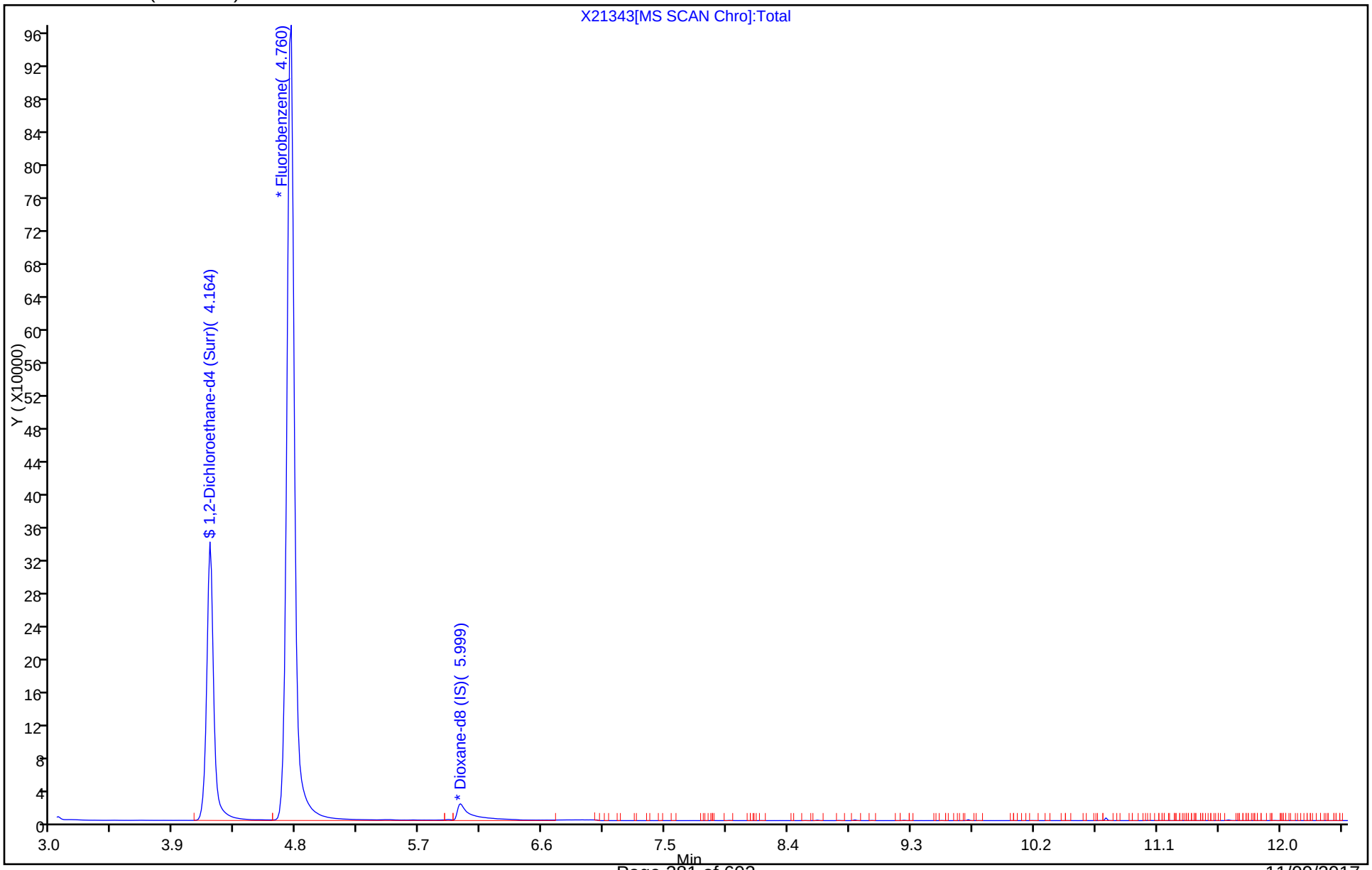
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 27-Oct-2017 09:51:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21343.D				
Injection Date:	26-Oct-2017 13:27:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	500-136132-E-1	Lab Sample ID:	240-136132-1	Worklist Smp#:	13
Client ID:	OMW1D-GW-102317				
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21343.D				
Lims ID:	500-136132-E-1				
Client ID:	OMW1D-GW-102317				
Sample Type:	Client				
Inject. Date:	26-Oct-2017 13:27:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-e-1				
Misc. Info.:	-0070052-013				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK004				

First Level Reviewer: macenczaks Date: 26-Oct-2017 15:40:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	8.04	90.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton
Job No.: 500-136132-1
SDG No.:
Client Sample ID: EIP-DUP-102317
Lab Sample ID: 500-136132-2
Matrix: Water
Lab File ID: X21344.D
Analysis Method: 8260B SIM
Date Collected: 10/23/2017 12:30
Sample wt/vol: 15(mL)
Date Analyzed: 10/26/2017 13:51
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 300683
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21344.D				
Lims ID:	500-136132-E-2				
Client ID:	EIP-DUP-102317				
Sample Type:	Client				
Inject. Date:	26-Oct-2017 13:51:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-e-2				
Misc. Info.:	240-0070052-014				
Operator ID:	002808	Instrument ID:	A3UX2		

Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m		
Limit Group:	MSV SIM ICAL		
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D		

Column 1 :	DB-624 (0.18 mm)	Det: MS SCAN
Process Host:	XAWRK004	

First Level Reviewer: macenczaks Date: 26-Oct-2017 15:40:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.166	4.164	0.002	100	1162248	8.68	
* 7 Fluorobenzene	96	4.761	4.747	0.014	100	3522387	8.88	
* 9 Dioxane-d8 (IS)	96	6.000	5.998	0.002	88	72731	177.7	

Reagents:

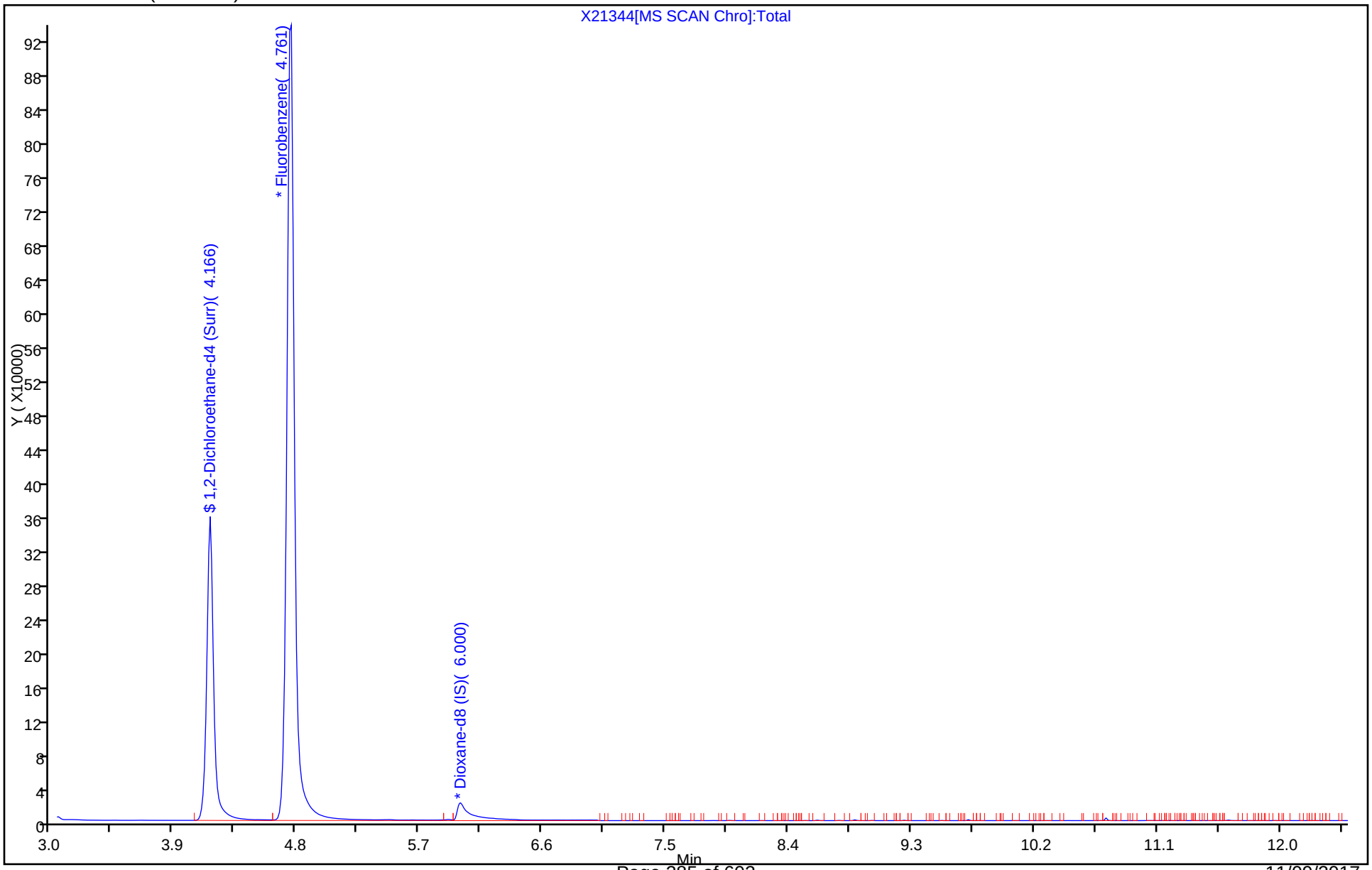
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 27-Oct-2017 09:51:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21344.D				
Injection Date:	26-Oct-2017 13:51:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	500-136132-E-2	Lab Sample ID:	240-136132-2	Worklist Smp#:	14
Client ID:	EIP-DUP-102317				
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21344.D				
Lims ID:	500-136132-E-2				
Client ID:	EIP-DUP-102317				
Sample Type:	Client				
Inject. Date:	26-Oct-2017 13:51:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	500-136132-e-2				
Misc. Info.:	240-0070052-014				
Operator ID:	002808	Instrument ID:	A3UX2		

Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m		
Limit Group:	MSV SIM ICAL		
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30
Integrator:	RTE	ID Type:	RT Order ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D		

Column 1 :	DB-624 (0.18 mm)	Det: MS SCAN
Process Host:	XAWRK004	

First Level Reviewer: macenczaks Date: 26-Oct-2017 15:40:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	8.68	97.70

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 500-136132-1 Analy Batch No.: 297993

SDG No.:

Instrument ID: A3UX2 GC Column: ZB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/06/2017 15:17 Calibration End Date: 10/06/2017 18:10 Calibration ID: 41784

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-297993/10	X21224.D
Level 2	IC 240-297993/9	X21223.D
Level 3	IC 240-297993/8	X21222.D
Level 4	IC 240-297993/7	X21221.D
Level 5	IC 240-297993/3	X21217.D
Level 6	IC 240-297993/4	X21218.D
Level 7	IC 240-297993/5	X21219.D
Level 8	ICIS 240-297993/6	X21220.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.8140 1.2110	0.8346 1.1935	1.0075 1.1519	1.1261	1.2930	Ave		1.0790				16.4		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3803 0.3444	0.3191 0.3356	0.3503 0.2716	0.3526	0.3481	Ave		0.3377				9.4		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 500-136132-1 Analy Batch No.: 297993

SDG No.:

Instrument ID: A3UX2 GC Column: ZB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/06/2017 15:17 Calibration End Date: 10/06/2017 18:10 Calibration ID: 41784

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-297993/10	X21224.D
Level 2	IC 240-297993/9	X21223.D
Level 3	IC 240-297993/8	X21222.D
Level 4	IC 240-297993/7	X21221.D
Level 5	IC 240-297993/3	X21217.D
Level 6	IC 240-297993/4	X21218.D
Level 7	IC 240-297993/5	X21219.D
Level 8	ICIS 240-297993/6	X21220.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	14DD 8	Ave	477 86189	1098 41024	3344 15892	7979	172268	1.00 100	2.00 50.0	5.00 20.0	10.0	200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	114136 11580916	200314 5469977	568263 1665770	1145657	24225429	0.500 48.9	1.00 23.9	2.50 8.88	5.00	98.9

Curve Type Legend:

Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21217.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	8		
Inject. Date:	06-Oct-2017 15:17:30	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-003				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:27	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 06-Oct-2017 16:06:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.164	0.001	100	24225429	98.9	101.9	
* 7 Fluorobenzene	96	4.759	4.760	-0.001	100	6252892	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	6.006	5.999	0.008	95	118362	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	95	172268	200.0	239.7	

Reagents:

vmdioxanew_00108	Amount Added: 30.00	Units: uL
vm150is_00060	Amount Added: 0.89	Units: uL
vm150ss_00006	Amount Added: 0.89	Units: uL
vm50ss_00299	Amount Added: 27.00	Units: uL

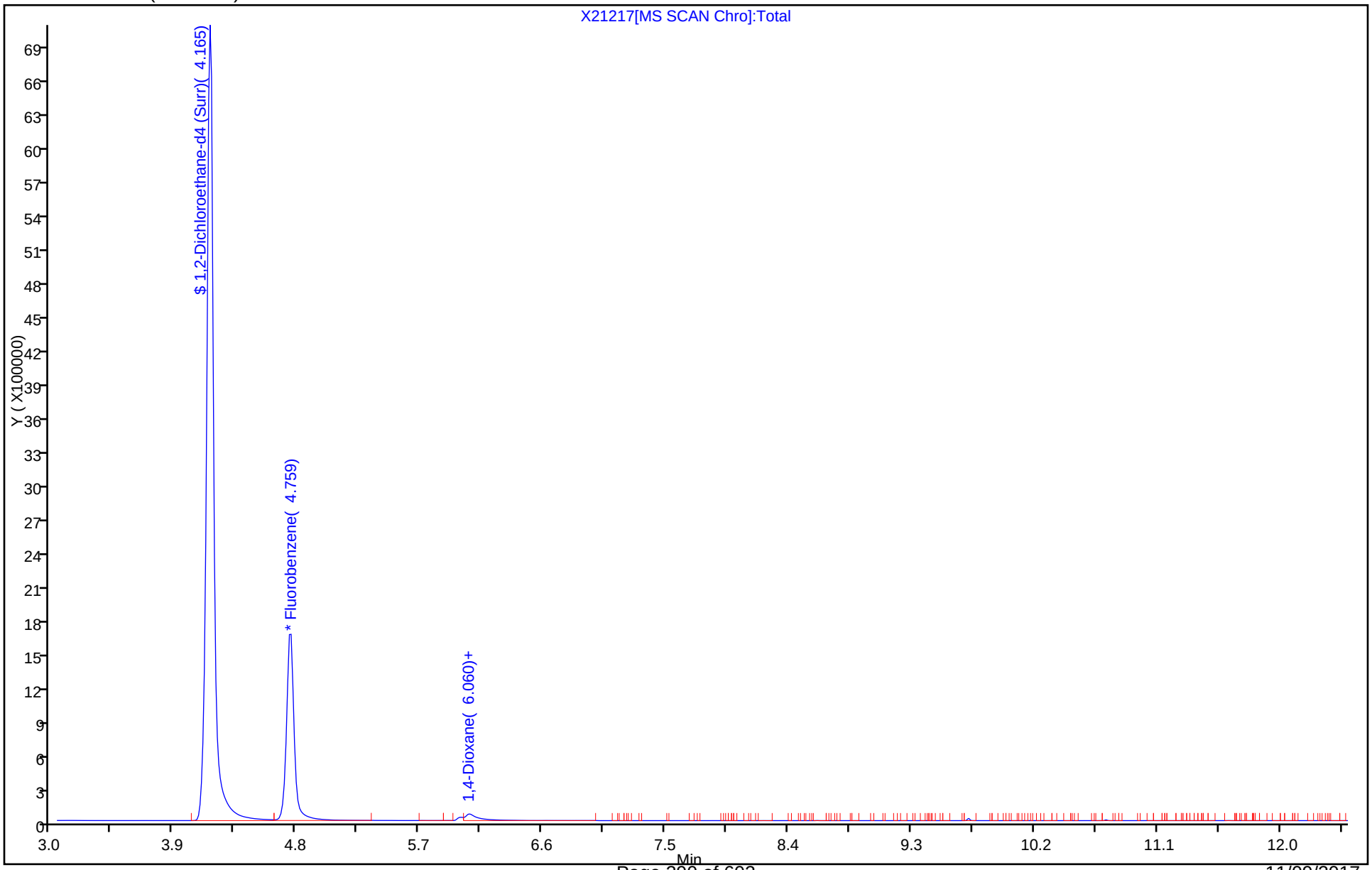
Report Date: 09-Oct-2017 11:06:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21217.D

Injection Date:	06-Oct-2017 15:17:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	3
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21218.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	06-Oct-2017 15:42:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-004				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:28	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 06-Oct-2017 16:06:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.164	0.000	100	11580916	48.9	49.8	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	6111136	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.001	95	126453	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	96	86189	100.0	112.2	

Reagents:

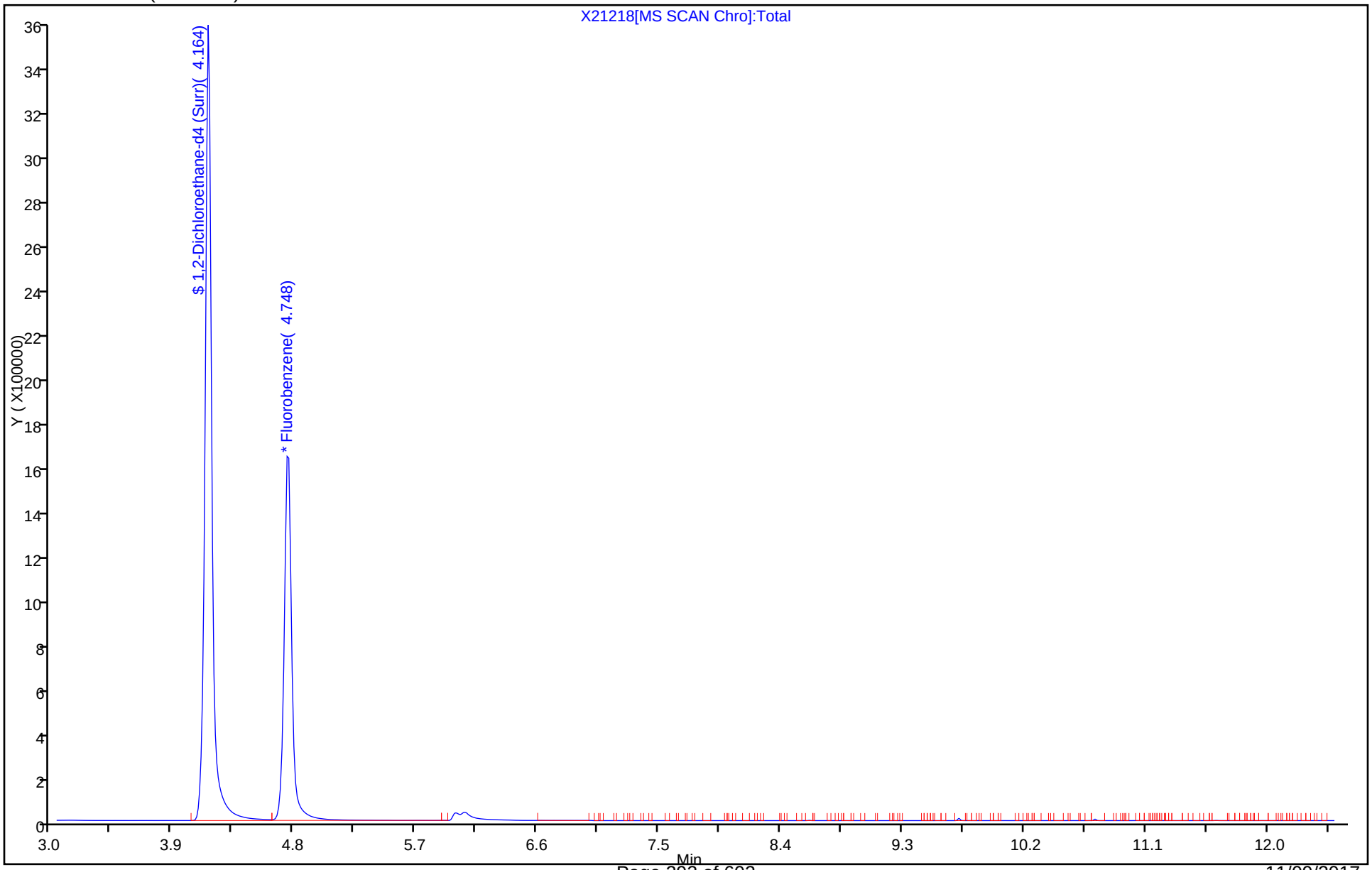
vm150is_00060	Amount Added: 0.89	Units: uL
vm150ss_00006	Amount Added: 0.89	Units: uL
vmdioxanew_00108	Amount Added: 15.00	Units: uL
vm50ss_00299	Amount Added: 12.00	Units: uL

Report Date: 09-Oct-2017 11:06:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21218.D				
Injection Date:	06-Oct-2017 15:42:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21219.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	06-Oct-2017 16:07:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-005				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:29	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:48:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.167	4.164	0.003	100	5469977	23.9	23.7	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	6063208	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	6.006	5.999	0.008	94	122144	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	95	41024	50.0	55.3	

Reagents:

vm150is_00060	Amount Added:	0.89	Units: uL
vm150ss_00006	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	7.50	Units: uL
vm50ss_00299	Amount Added:	4.50	Units: uL

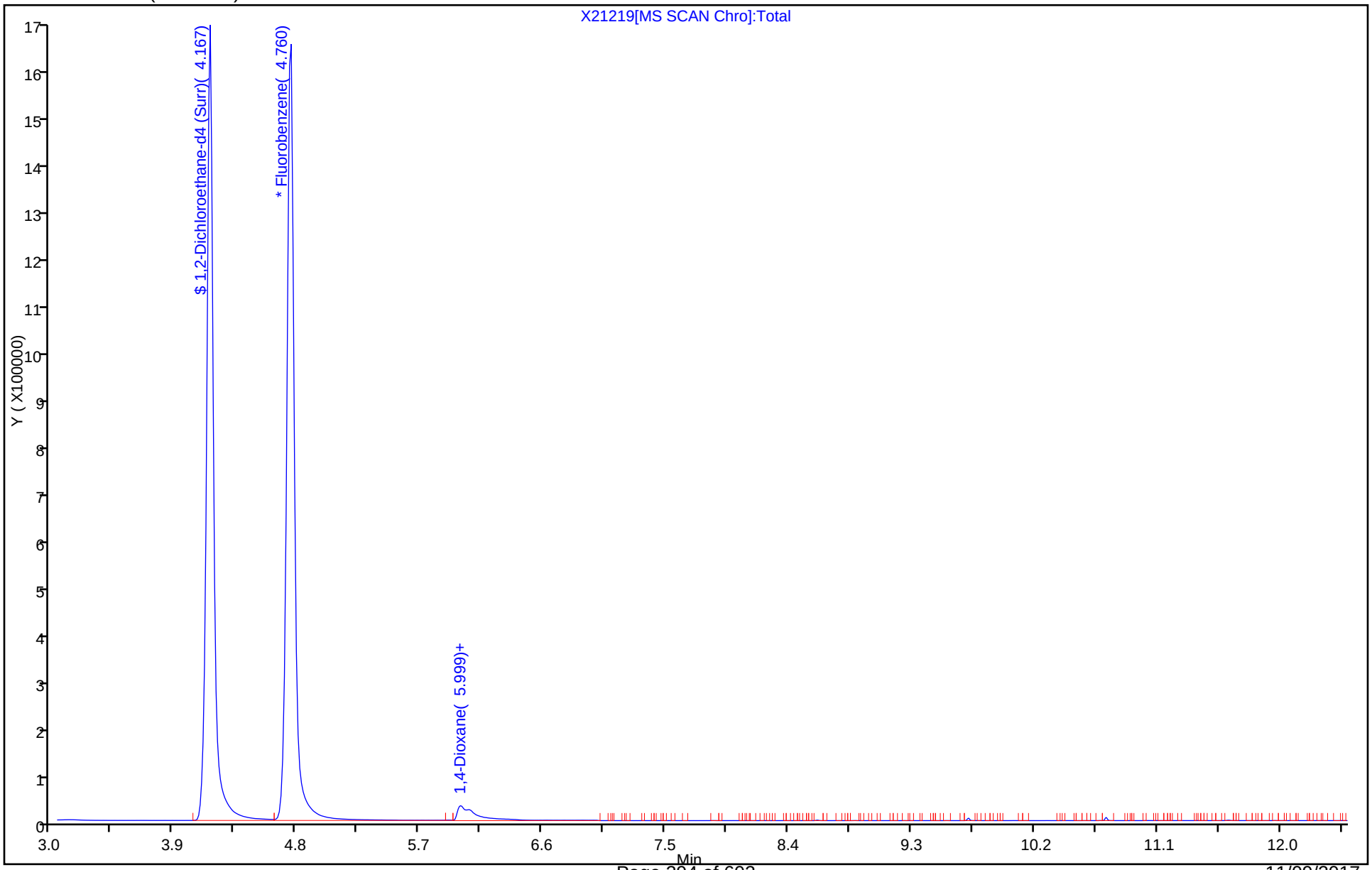
Report Date: 09-Oct-2017 11:06:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21219.D

Injection Date:	06-Oct-2017 16:07:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21220.D				
Lims ID:	icis				
Client ID:					
Sample Type:	ICIS	Calib Level:	5		
Inject. Date:	06-Oct-2017 16:31:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	icis				
Misc. Info.:	240-0069413-006				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:30	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:48:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.164	0.000	100	1665770	8.88	7.14	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	6133182	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.000	95	122569	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	93	15892	20.0	21.4	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

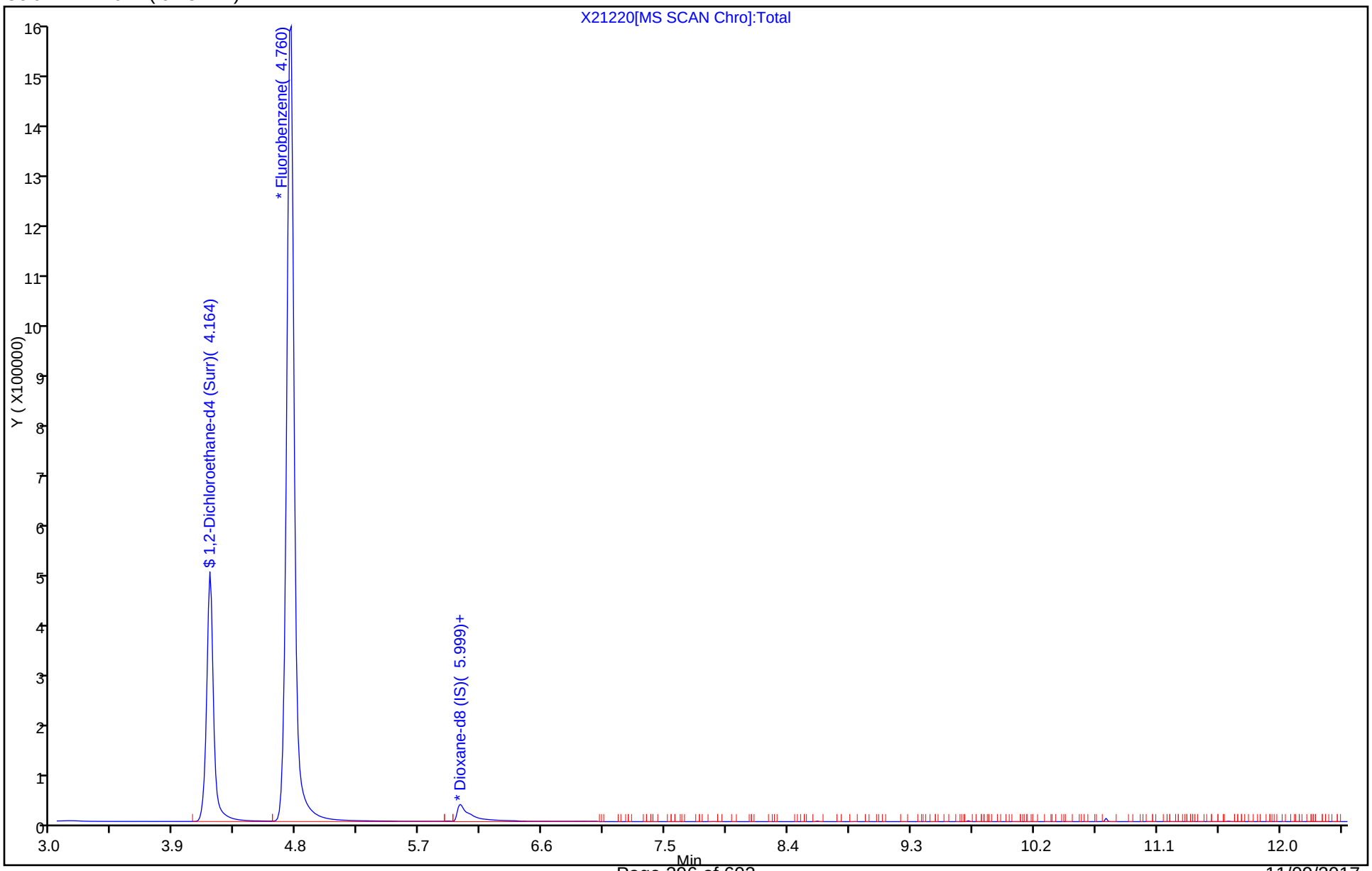
vm150is_00060	Amount Added:	0.89	Units: uL
vm150ss_00006	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	3.00	Units: uL

Report Date: 09-Oct-2017 11:06:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21220.D				
Injection Date:	06-Oct-2017 16:31:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	icis			Worklist Smp#:	6
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Canton

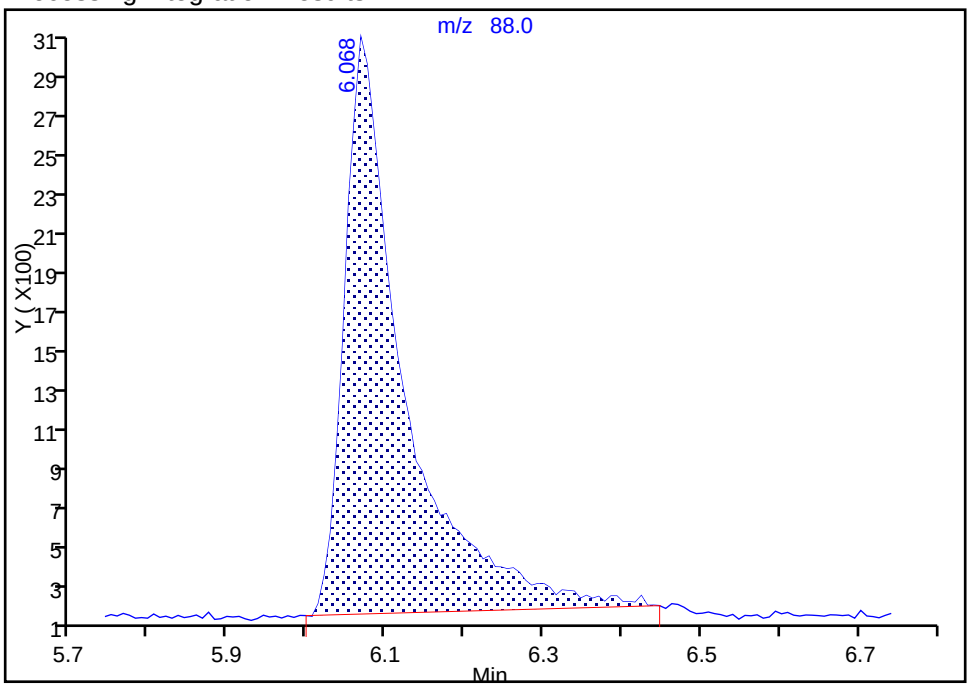
Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21220.D				
Injection Date:	06-Oct-2017 16:31:30	Instrument ID:	A3UX2		
Lims ID:	icis				
Client ID:					
Operator ID:	002808	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

8 1,4-Dioxane, CAS: 123-91-1

Signal: 1

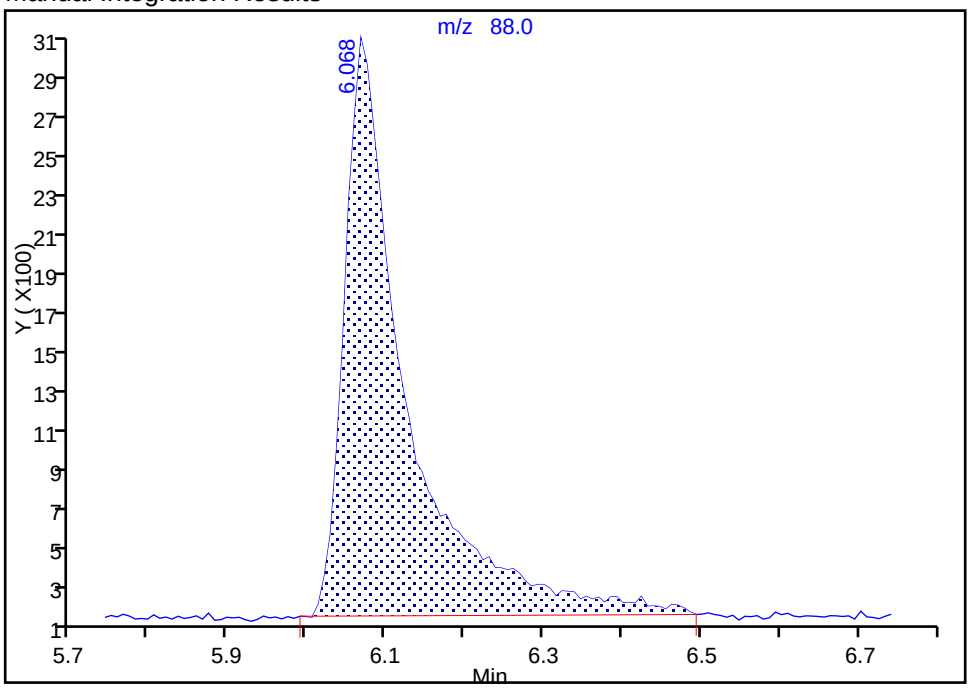
Processing Integration Results

RT: 6.07
Area: 15270
Amount: 20.623677
Amount Units: ug/l



Manual Integration Results

RT: 6.07
Area: 15892
Amount: 21.351645
Amount Units: ug/l



Reviewer: macenczaks, 09-Oct-2017 08:48:54

Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21221.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	06-Oct-2017 16:56:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-007				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:31	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:49:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.164	0.000	100	1145657	5.00	5.22	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	5773238	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.001	100	125891	177.7	177.7	
8 1,4-Dioxane	88	6.069	6.068	0.001	99	7979	10.0	10.4	

Reagents:

vm150is_00060	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	1.50	Units: uL
vm50ss_00299	Amount Added:	1.50	Units: uL

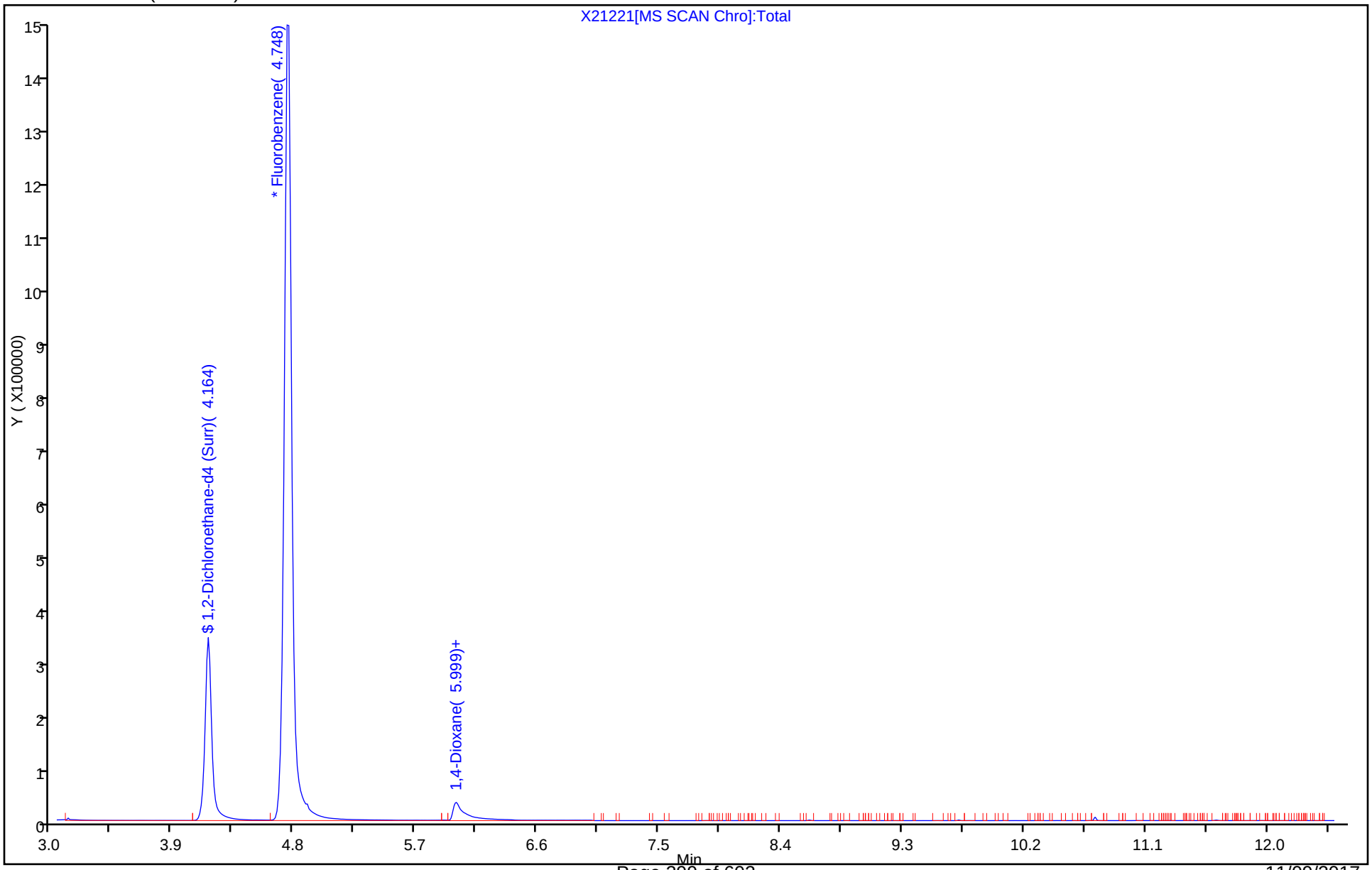
Report Date: 09-Oct-2017 11:06:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21221.D

Injection Date:	06-Oct-2017 16:56:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21222.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	06-Oct-2017 17:20:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-008				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:32	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:49:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.166	4.164	0.002	100	568263	2.50	2.59	
* 7 Fluorobenzene	96	4.759	4.760	-0.001	100	5765126	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.998	5.999	0.000	100	117951	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	99	3344	5.00	4.67	

Reagents:

vm150is_00060	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	0.75	Units: uL
vm50ss_00299	Amount Added:	0.75	Units: uL

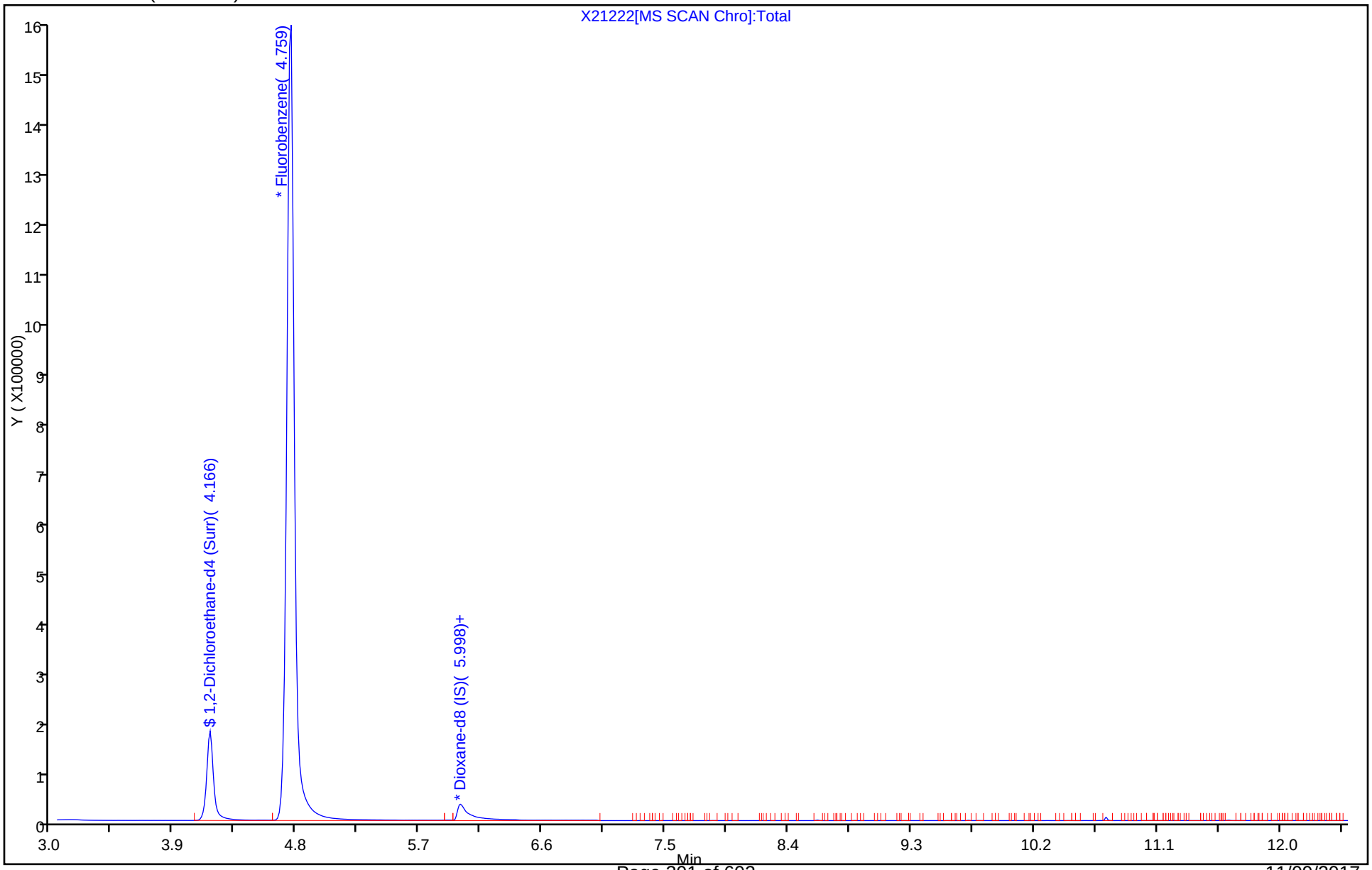
Report Date: 09-Oct-2017 11:06:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21222.D

Injection Date:	06-Oct-2017 17:20:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21223.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	06-Oct-2017 17:45:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-009				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:33	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:49:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.164	0.001	100	200314	1.00	0.9447	
* 7 Fluorobenzene	96	4.759	4.760	-0.001	100	5577617	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.998	5.999	0.000	100	116880	177.7	177.7	
8 1,4-Dioxane	88	6.076	6.068	0.008	99	1098	2.00	1.55	

Reagents:

vm150is_00060	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	0.30	Units: uL
vm50ss_00299	Amount Added:	0.30	Units: uL

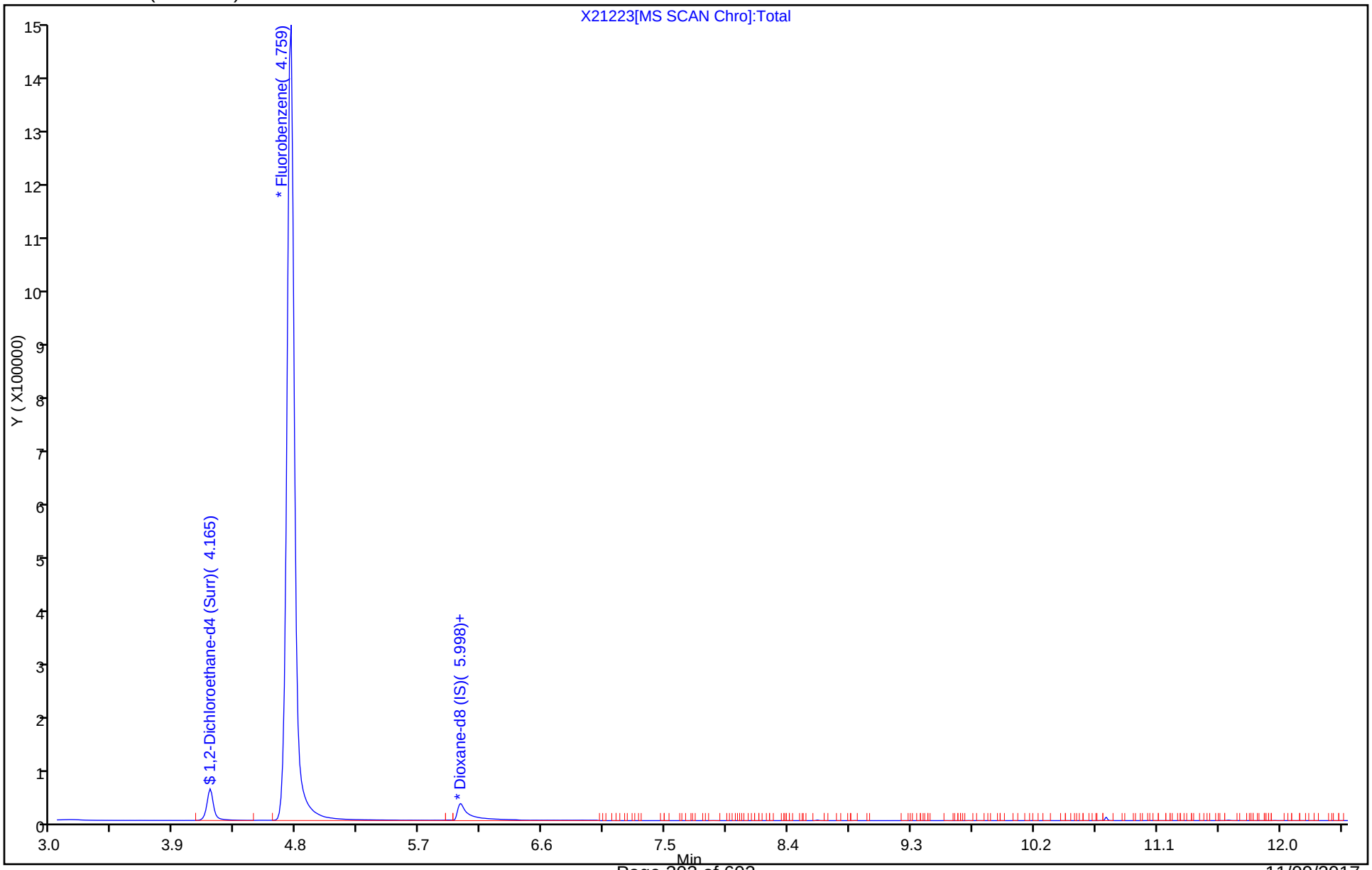
Report Date: 09-Oct-2017 11:06:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21223.D

Injection Date:	06-Oct-2017 17:45:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	06-Oct-2017 18:10:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ic				
Misc. Info.:	240-0069413-010				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:34	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:51:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.164	0.001	100	114136	0.5000	0.5631	
* 7 Fluorobenzene	96	4.760	4.760	0.000	100	5331918	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.001	100	104118	177.7	177.7	
8 1,4-Dioxane	88	6.084	6.068	0.016	85	477	1.00	0.7544	

Reagents:

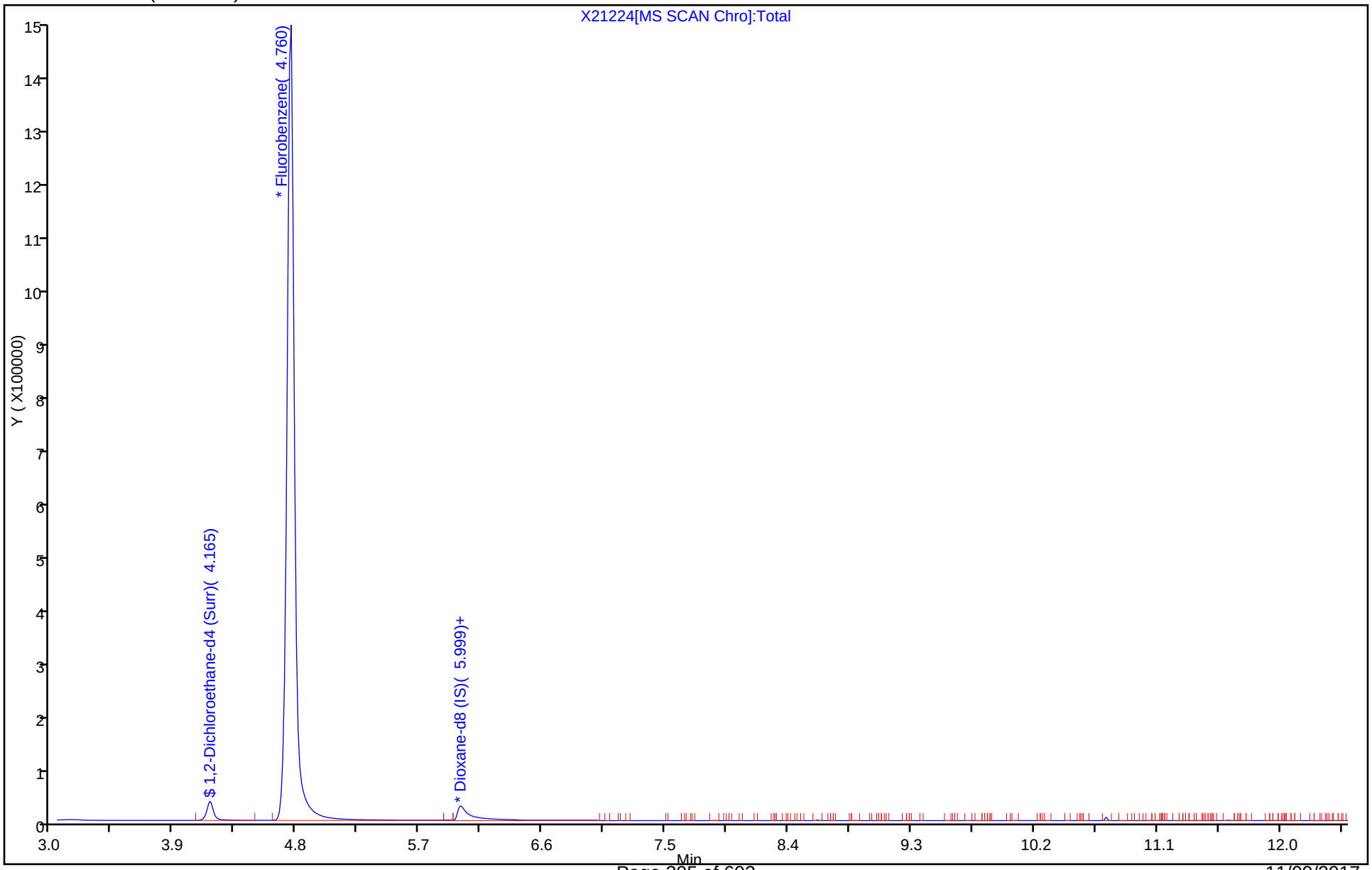
vm150is_00060	Amount Added:	0.89	Units: uL
vmdioxanew_00108	Amount Added:	0.15	Units: uL
vm50ss_00299	Amount Added:	0.15	Units: uL

Report Date: 09-Oct-2017 11:06:34 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Injection Date:	06-Oct-2017 18:10:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: ICV 240-297993/11 Calibration Date: 10/06/2017 18:35

Instrument ID: A3UX2 Calib Start Date: 10/06/2017 15:17

GC Column: ZB-624 ID: 0.53(mm) Calib End Date: 10/06/2017 18:10

Lab File ID: X21225.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.079	1.043		0.00967	0.0100	-3.3	
1,2-Dichloroethane-d4 (Surr)	Ave	0.3377	0.3052		0.00803	0.00888	-9.6	

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21225.D				
Lims ID:	icv				
Client ID:					
Sample Type:	ICV				
Inject. Date:	06-Oct-2017 18:35:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	icv				
Misc. Info.:	240-0069413-011				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:					
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:34	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: macenczaks Date: 09-Oct-2017 08:51:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.166	4.164	0.002	100	1598540	8.88	8.03	
* 7 Fluorobenzene	96	4.759	4.760	-0.001	100	5237674	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.999	0.000	100	111619	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	100	6551	10.0	9.67	

Reagents:

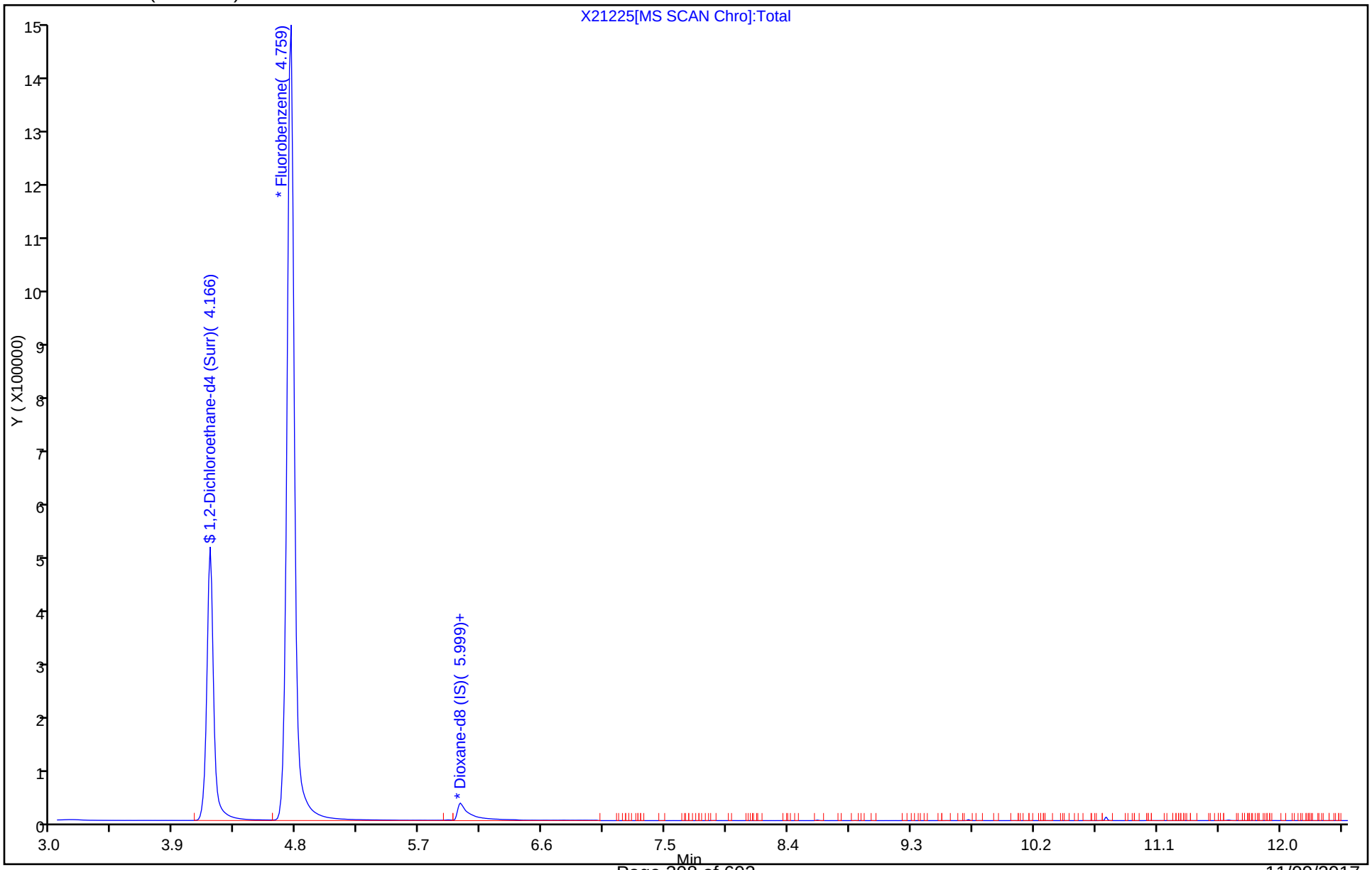
vmdiox_spike_00121	Amount Added:	3.00	Units: uL	
vm150ss_00006	Amount Added:	0.89	Units: uL	Run Reagent
vmDist_H2o_00102	Amount Added:	0.00	Units:	Run Reagent
vm150is_00062	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 09-Oct-2017 11:06:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21225.D				
Injection Date:	06-Oct-2017 18:35:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	icv			Worklist Smp#:	11
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCVIS 240-300683/3 Calibration Date: 10/26/2017 09:19

Instrument ID: A3UX2 Calib Start Date: 10/06/2017 15:17

GC Column: ZB-624 ID: 0.53(mm) Calib End Date: 10/06/2017 18:10

Lab File ID: X21333.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.079	1.313		0.0243	0.0200	21.7	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3377	0.3221		0.00847	0.00888	-4.6	35.0

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21333.D				
Lims ID:	ccvis				
Client ID:					
Sample Type:	CCVIS				
Inject. Date:	26-Oct-2017 09:19:30	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	ccvis				
Operator ID:	002808	Instrument ID:	A3UX2		
Sublist:	chrom-8260SIM_X2*sub2				
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK004				

First Level Reviewer: macenczaks Date: 26-Oct-2017 09:38:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.164	4.164	0.000	100	1165205	8.88	8.47	
* 7 Fluorobenzene	96	4.747	4.747	0.000	100	3618030	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.998	5.998	0.000	88	76470	177.7	177.7	
8 1,4-Dioxane	88	6.068	6.068	0.000	86	11299	20.0	24.3	

Reagents:

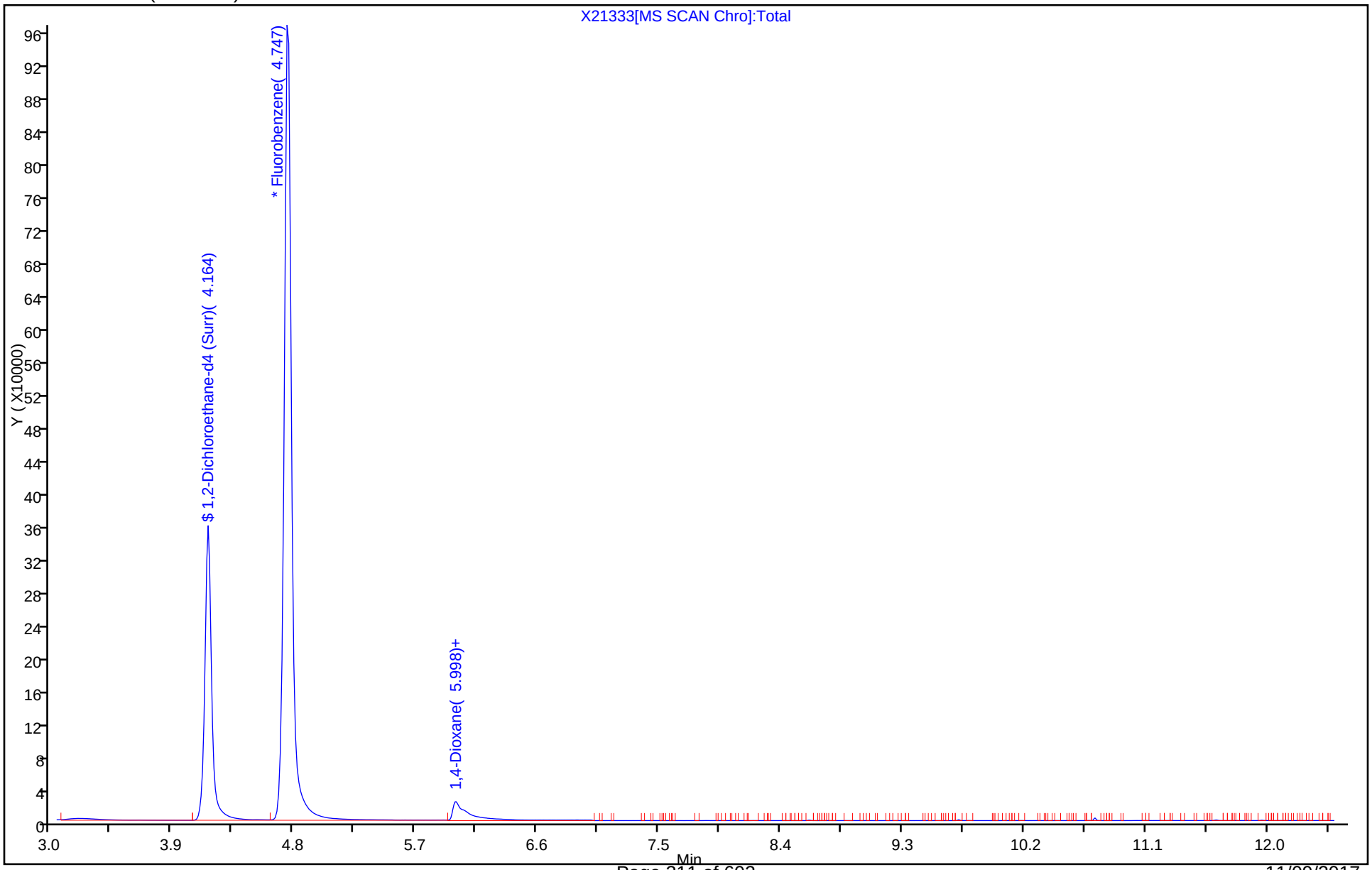
vmdioxanew_00110	Amount Added:	3.00	Units: uL	
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 27-Oct-2017 09:51:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21333.D				
Injection Date:	26-Oct-2017 09:19:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	ccvis			Worklist Smp#:	3
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Oct-2017 14:32:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	240-0069413-001				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	09-Oct-2017 11:06:26	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 3 BFB	95	2.806	2.806	0.000	0	5463519	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

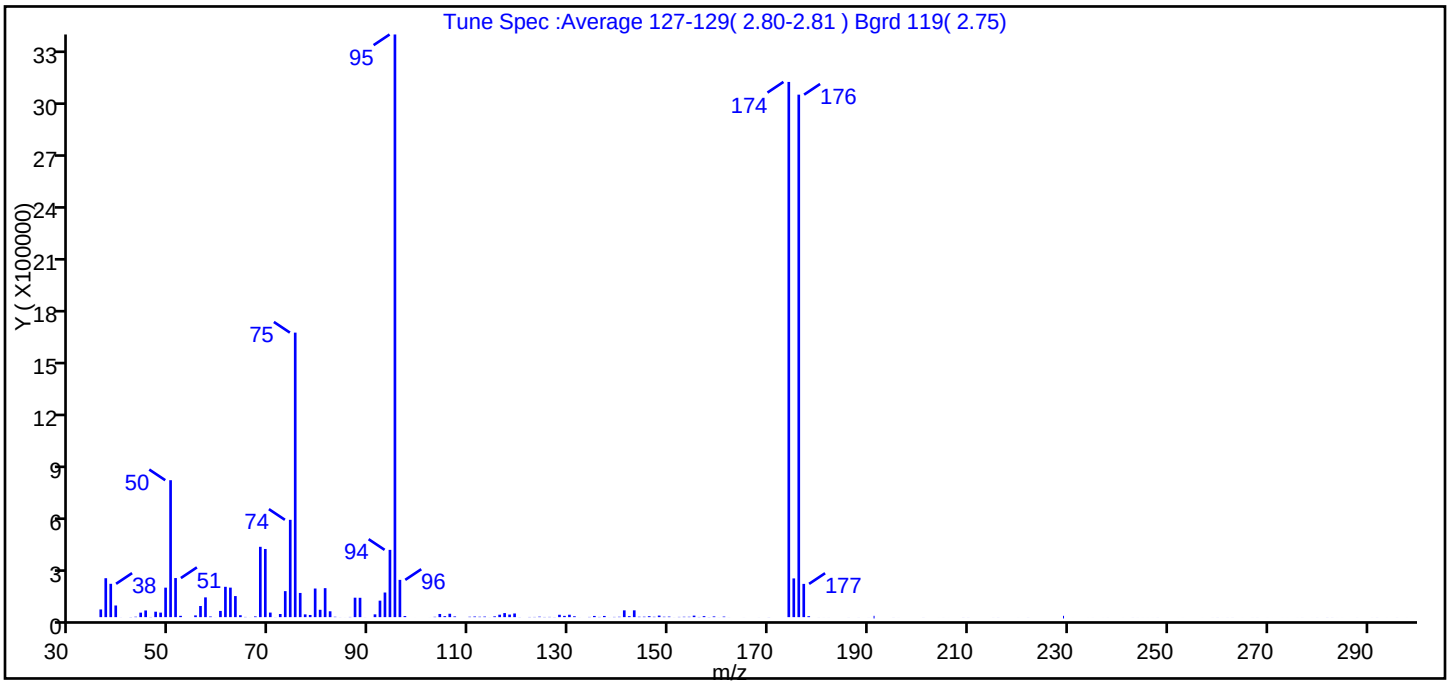
vmbfb_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D				
Injection Date:	06-Oct-2017 14:32:30	Instrument ID:	A3UX2		
Lims ID:	bfb				
Client ID:					
Operator ID:	002808	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Tune Method:	BFB Method 8260				

$ 3 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.5
75	30 to 60% of m/z 95	48.8
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	91.9
175	5 to 9% of m/z 174	6.6 (7.2)
176	Greater than 95% but less than 101% of m/z 174	89.7 (97.6)
177	5 to 9% of m/z 176	5.7 (6.4)

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D\8260SIM_X2.rslt\spectra.d
Injection Date: 06-Oct-2017 14:32:30
Spectrum: Tune Spec :Average 127-129(2.80-2.81) Bgrd 119(2.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 190

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	43688	86.00	1148	142.00	5346	216.00	195
37.00	220992	87.00	110392	143.00	38632	220.00	77
38.00	189248	88.00	109848	144.00	2294	222.00	183
39.00	66144	89.00	216	145.00	2526	228.00	27
40.00	275	91.00	15861	146.00	5356	229.00	3
42.00	763	92.00	93584	147.00	2085	231.00	32
43.00	2306	93.00	139776	148.00	8795	234.00	52
44.00	25496	94.00	381888	149.00	2331	235.00	74
45.00	37928	95.00	3307008	150.00	3140	237.00	52
46.00	911	96.00	211584	151.00	230	238.00	104
47.00	30944	97.00	6186	152.00	1360	241.00	72
48.00	25688	99.00	42	153.00	2168	243.00	177
49.00	167360	102.00	93	154.00	2044	244.00	103
50.00	777216	103.00	1936	155.00	8535	245.00	51
51.00	221888	104.00	18024	156.00	1044	246.00	65
52.00	7518	105.00	5713	157.00	5721	247.00	51
54.00	111	106.00	19240	158.00	696	248.00	138
55.00	9885	107.00	4064	159.00	4153	252.00	35
56.00	63304	110.00	2230	160.00	224	253.00	55
57.00	112192	111.00	3591	161.00	3213	257.00	70
58.00	3617	112.00	2356	162.00	195	259.00	130
59.00	155	113.00	3198	165.00	130	260.00	196
60.00	35336	114.00	250	168.00	153	261.00	60
61.00	172160	115.00	4540	170.00	395	262.00	160
62.00	167552	116.00	13873	174.00	3037696	263.00	169
63.00	119584	117.00	23064	175.00	219840	265.00	51
64.00	10839	118.00	14549	176.00	2965504	267.00	91
65.00	1176	119.00	20808	177.00	188800	268.00	156
66.00	183	120.00	472	178.00	5142	270.00	75
67.00	4153	122.00	1033	179.00	19	271.00	37
68.00	399168	123.00	1175	180.00	179	273.00	55
69.00	386880	124.00	2666	181.00	91	274.00	54
70.00	25880	125.00	1036	182.00	120	276.00	79

Report Date: 09-Oct-2017 11:06:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D\8260SIM_X2.rslt\spectra.d
Injection Date: 06-Oct-2017 14:32:30
Spectrum: Tune Spec :Average 127-129(2.80-2.81) Bgrd 119(2.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 190

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	377	126.00	1331	186.00	189	277.00	131
72.00	17800	127.00	568	188.00	178	279.00	62
73.00	147584	128.00	13492	189.00	12	280.00	133
74.00	552448	129.00	7206	190.00	136	282.00	256
75.00	1614848	130.00	13670	191.00	4	283.00	189
76.00	137344	131.00	4993	195.00	221	284.00	64
77.00	15753	132.00	169	196.00	94	285.00	55
78.00	12303	134.00	1191	197.00	27	288.00	131
79.00	162432	135.00	6766	201.00	201	291.00	107
80.00	41736	136.00	1237	204.00	57	292.00	190
81.00	164480	137.00	6719	205.00	114	294.00	65
82.00	33200	138.00	214	206.00	51	296.00	139
83.00	2090	139.00	1309	209.00	256	298.00	69
84.00	300	140.00	2035	210.00	191		
85.00	152	141.00	38536	215.00	135		

Report Date: 09-Oct-2017 11:06:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\BFBX2077.D

Injection Date: 06-Oct-2017 14:32:30 Instrument ID: A3UX2 Operator ID: 002808

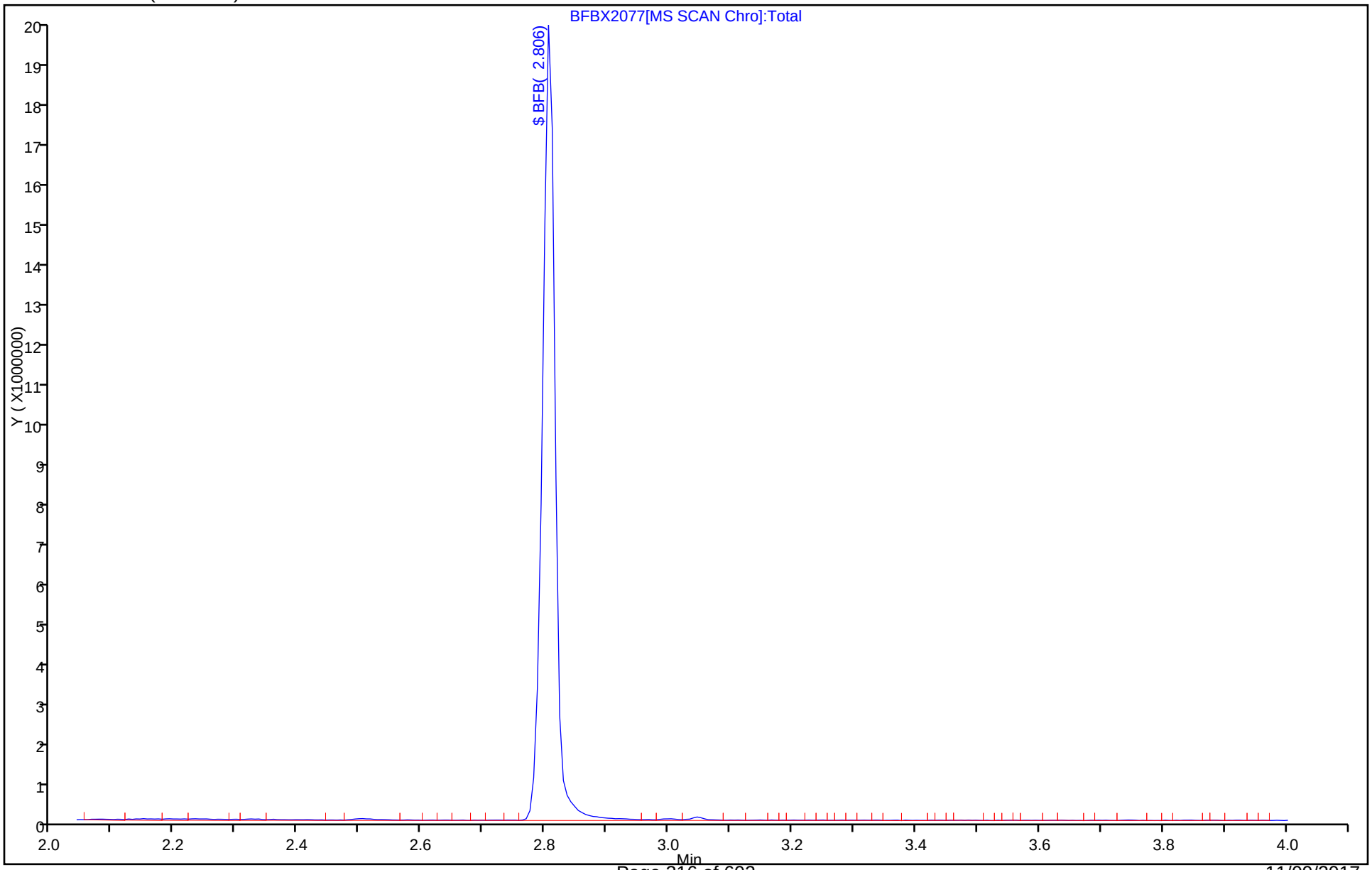
Lims ID: bfb Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260SIM_X2 Limit Group: MSV SIM ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\BFBX2084.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	26-Oct-2017 08:33:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	240-0070052-001				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	27-Oct-2017 09:51:34	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK004				
First Level Reviewer: macenczaks		Date:	26-Oct-2017 09:40:15		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 3 BFB	95	2.805	2.805	0.000	0	2581888	NR	NR	8

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

8 - Failed MS Tune Ratio Test

Reagents:

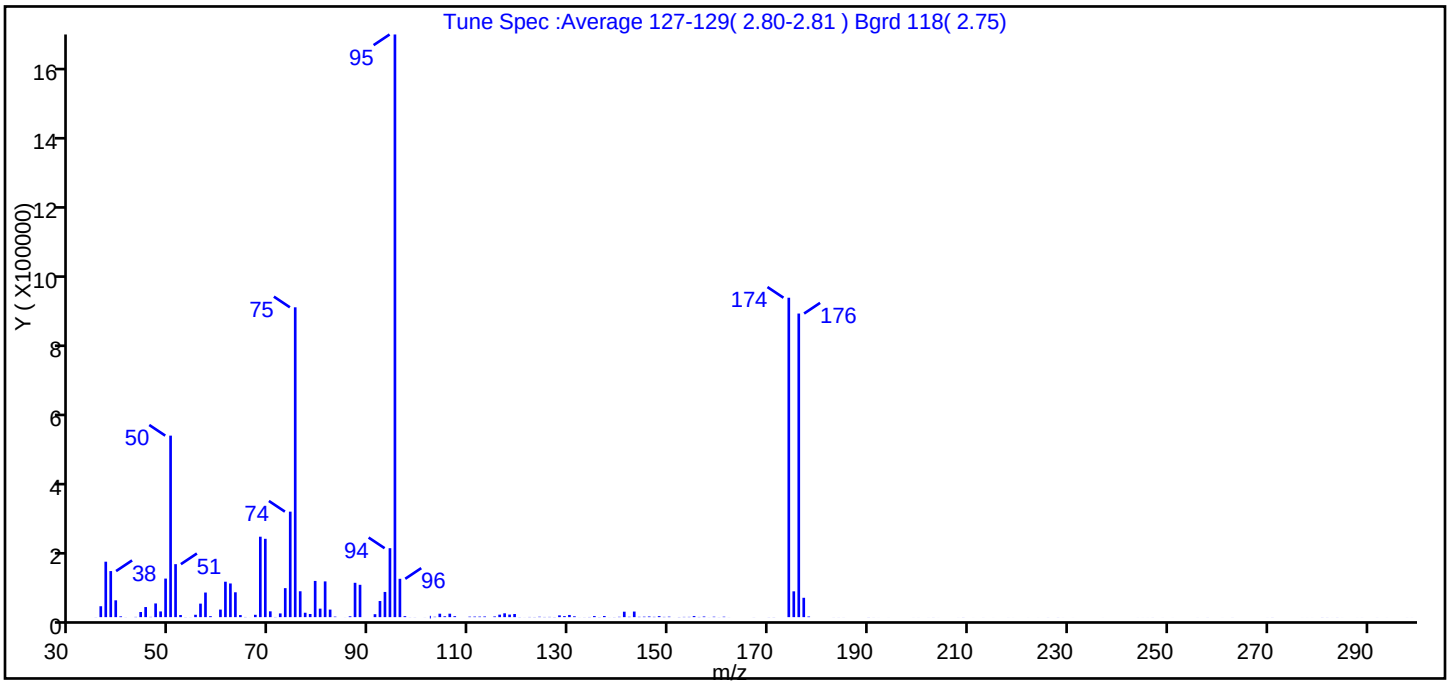
vmbfb_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\BFBX2084.D				
Injection Date:	26-Oct-2017 08:33:30	Instrument ID:	A3UX2		
Lims ID:	bfb				
Client ID:					
Operator ID:	002808	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Tune Method:	BFB Method 8260				

$ 3 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	31.2
75	30 to 60% of m/z 95	53.2
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	54.8
175	5 to 9% of m/z 174	4.4 (8.1)
176	Greater than 95% but less than 101% of m/z 174	52.1 (95.0)*
177	5 to 9% of m/z 176	3.3 (6.4)

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\BFBX2084.D\8260SIM_X2.rslt\spectra.d
Injection Date: 26-Oct-2017 08:33:30
Spectrum: Tune Spec :Average 127-129(2.80-2.81) Bgrd 118(2.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	256	82.00	21960	134.00	487	202.00	81
36.00	31704	83.00	1539	135.00	3103	203.00	144
37.00	161088	84.00	9	136.00	405	204.00	60
38.00	133824	85.00	137	137.00	3202	208.00	75
39.00	48896	86.00	2403	138.00	139	209.00	201
40.00	2250	87.00	99800	139.00	316	211.00	58
41.00	192	88.00	93944	140.00	971	213.00	84
43.00	691	91.00	8566	141.00	15832	214.00	13
44.00	14904	92.00	46840	142.00	1050	215.00	50
45.00	29312	93.00	73216	143.00	16258	218.00	73
46.00	754	94.00	200256	144.00	974	219.00	57
47.00	39808	95.00	1692672	145.00	1366	222.00	52
48.00	16600	96.00	111416	146.00	1941	224.00	51
49.00	111984	97.00	2853	147.00	912	226.00	120
50.00	527296	98.00	221	148.00	2974	228.00	154
51.00	153920	99.00	217	149.00	751	229.00	61
52.00	6127	101.00	158	150.00	1431	231.00	52
53.00	330	102.00	3	151.00	48	237.00	56
54.00	191	103.00	1049	152.00	440	244.00	66
55.00	6904	104.00	9987	153.00	735	245.00	54
56.00	39272	105.00	2549	154.00	767	246.00	55
57.00	71488	106.00	10027	155.00	3099	247.00	117
58.00	2727	107.00	2777	156.00	600	249.00	71
59.00	14	110.00	1461	157.00	1876	251.00	56
60.00	22008	111.00	1639	158.00	174	256.00	69
61.00	102912	112.00	1640	159.00	1285	258.00	122
62.00	97848	113.00	1920	160.00	242	261.00	50
63.00	72216	115.00	2047	161.00	1297	263.00	116
64.00	6007	116.00	7216	162.00	139	270.00	78
65.00	501	117.00	11152	167.00	162	271.00	175
66.00	97	118.00	7420	170.00	228	277.00	50
67.00	6824	119.00	9158	171.00	265	278.00	50
68.00	233664	120.00	350	174.00	927936	279.00	51

Report Date: 27-Oct-2017 09:51:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\BFBX2084.D\8260SIM_X2.rslt\spectra.d
Injection Date: 26-Oct-2017 08:33:30
Spectrum: Tune Spec :Average 127-129(2.80-2.81) Bgrd 118(2.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
69.00	227584	121.00	140	175.00	74984	281.00	200
70.00	16904	122.00	570	176.00	881984	282.00	148
71.00	458	123.00	454	177.00	56232	283.00	51
72.00	10832	124.00	1151	178.00	1768	284.00	153
73.00	84224	125.00	549	183.00	126	285.00	50
74.00	306496	126.00	703	184.00	130	288.00	50
75.00	900096	127.00	412	185.00	110	289.00	71
76.00	75192	128.00	5187	190.00	224	292.00	91
77.00	12798	129.00	2976	191.00	103	294.00	52
78.00	9168	130.00	6348	192.00	57	298.00	73
79.00	105232	131.00	2444	194.00	54	299.00	67
80.00	24704	132.00	125	199.00	69		
81.00	103856	133.00	243	200.00	72		

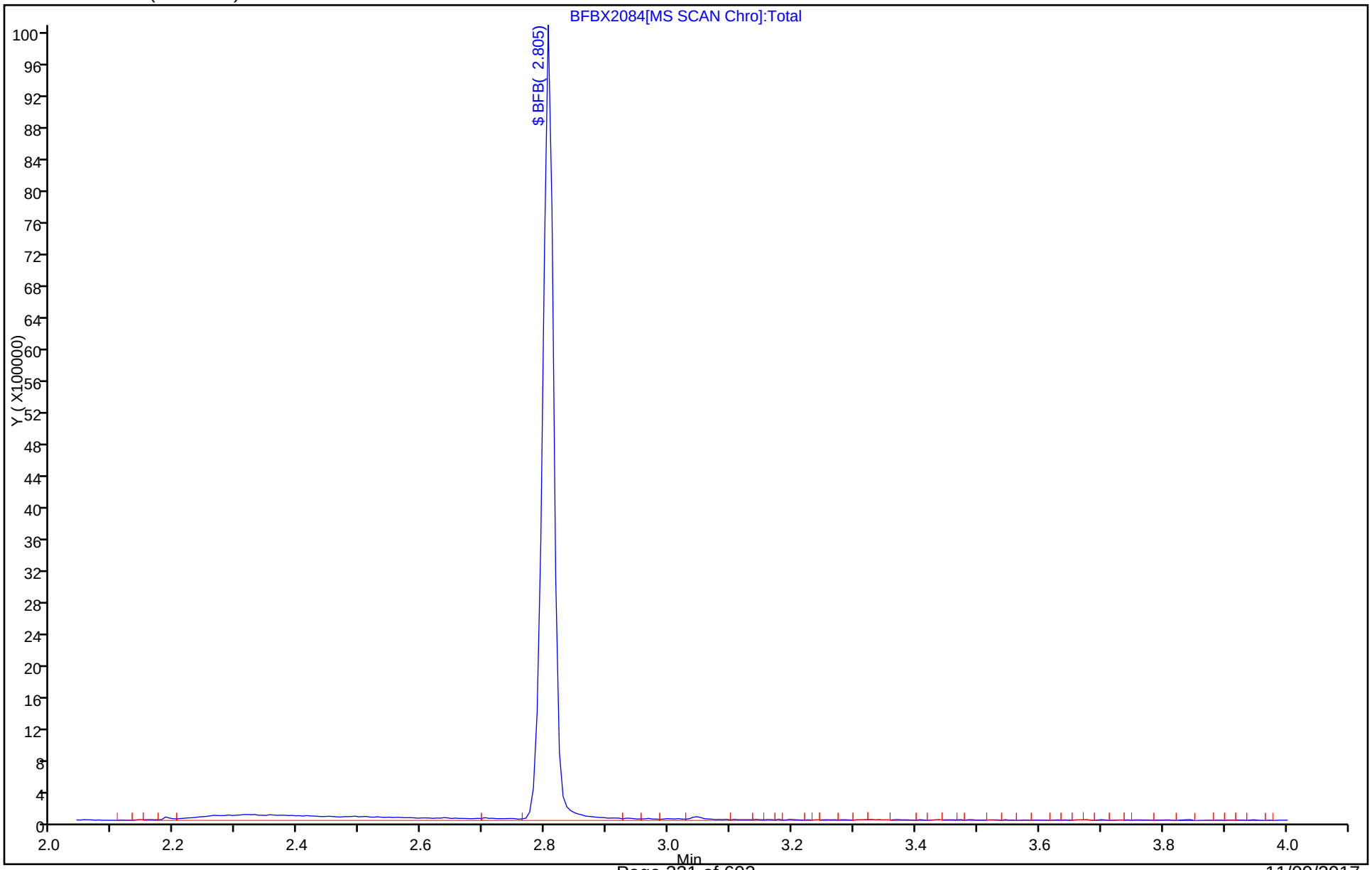
Report Date: 27-Oct-2017 09:51:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\BFBX2084.D

Injection Date:	26-Oct-2017 08:33:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton
Job No.: 500-136132-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 240-300683/5
Matrix: Water
Lab File ID: X21335.D
Analysis Method: 8260B SIM
Date Collected:
Sample wt/vol: 15(mL)
Date Analyzed: 10/26/2017 10:09
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 300683
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21335.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	26-Oct-2017 10:09:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	mb				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK004				
First Level Reviewer: macenczaks		Date:	26-Oct-2017 10:28:20		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.164	0.001	100	1165756	8.88	8.45	
* 7 Fluorobenzene	96	4.748	4.747	0.001	100	3627549	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.999	5.998	0.001	88	75012	177.7	177.7	
18 Ethylene Dibromide	107	8.126	8.137	-0.011	50	6		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

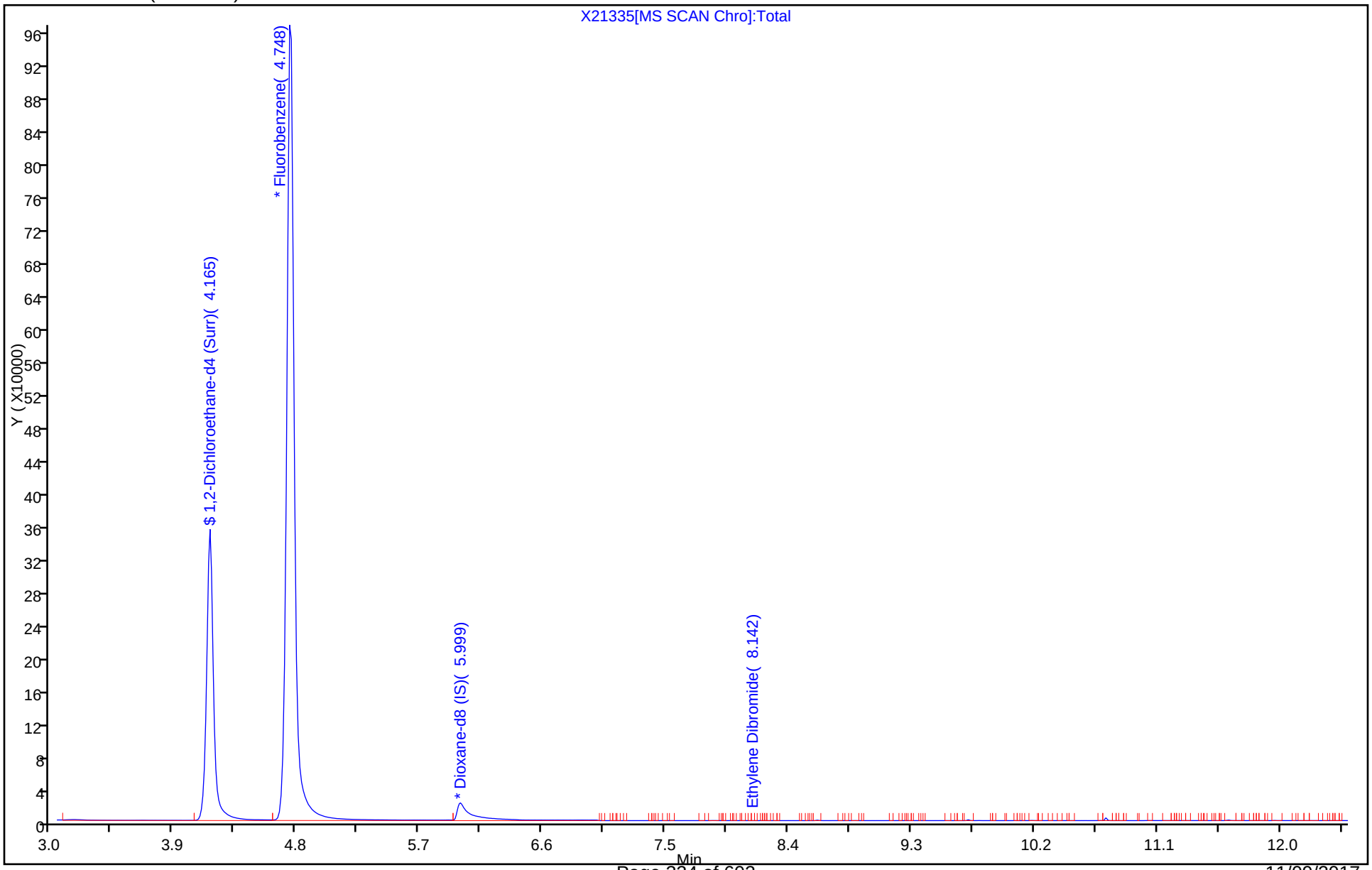
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

Report Date: 27-Oct-2017 09:51:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21335.D				
Injection Date:	26-Oct-2017 10:09:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21335.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	26-Oct-2017 10:09:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	mb				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK004				

First Level Reviewer: macenczaks Date: 26-Oct-2017 10:28:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	8.45	95.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton
Job No.: 500-136132-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 240-300683/4
Matrix: Water
Lab File ID: X21334.D
Analysis Method: 8260B SIM
Date Collected:
Sample wt/vol: 15(mL)
Date Analyzed: 10/26/2017 09:44
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 300683
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	10.6		2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		63-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21334.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	26-Oct-2017 09:44:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	lcs				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK004				
First Level Reviewer: macenczaks		Date:	26-Oct-2017 10:24:16		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.164	0.001	100	1186368	8.88	8.38	
* 7 Fluorobenzene	96	4.749	4.747	0.002	100	3723988	8.88	8.88	
* 9 Dioxane-d8 (IS)	96	5.998	5.998	0.000	88	73010	177.7	177.7	
8 1,4-Dioxane	88	6.076	6.068	0.008	93	4700	10.0	10.6	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

vmdiox_spike_00123	Amount Added:	3.00	Units: uL	
vmDist_H2o_00103	Amount Added:	0.00	Units:	Run Reagent
vm150is_00064	Amount Added:	0.89	Units: uL	Run Reagent
vm150ss_00007	Amount Added:	0.89	Units: uL	Run Reagent

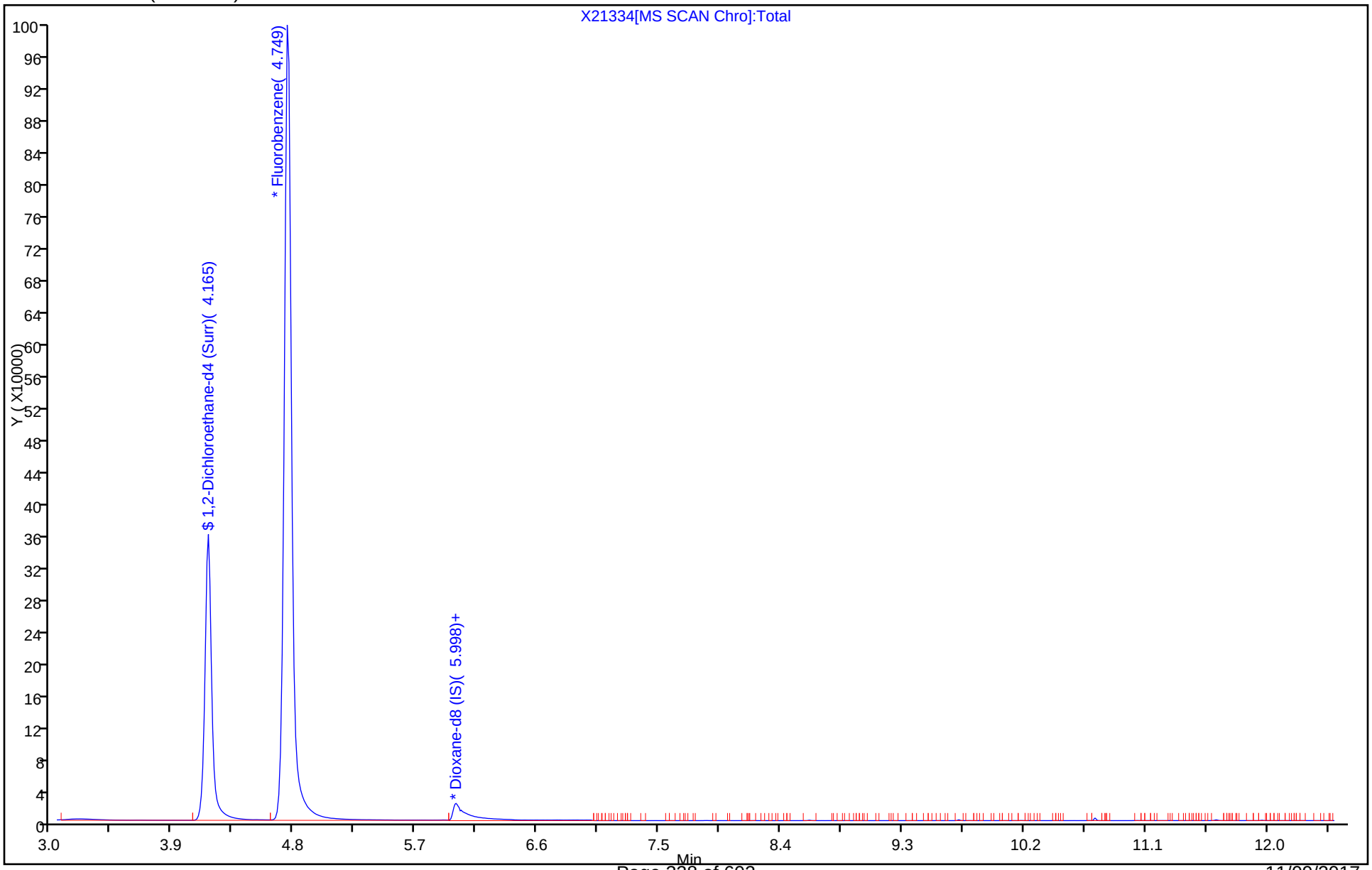
Report Date: 27-Oct-2017 09:51:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21334.D

Injection Date:	26-Oct-2017 09:44:30	Instrument ID:	A3UX2	Operator ID:	002808
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	15.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Recovery Report

Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21334.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	26-Oct-2017 09:44:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Sample Info:	lcs				
Operator ID:	002808	Instrument ID:	A3UX2		
Method:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\8260SIM_X2.m				
Limit Group:	MSV SIM ICAL				
Last Update:	27-Oct-2017 09:51:35	Calib Date:	06-Oct-2017 18:10:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX2\20171006-69413.b\X21224.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK004				

First Level Reviewer: macenczaks Date: 26-Oct-2017 10:24:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	8.88	8.38	94.33

Manual Integration/User Assign Peak Report

TestAmerica Canton

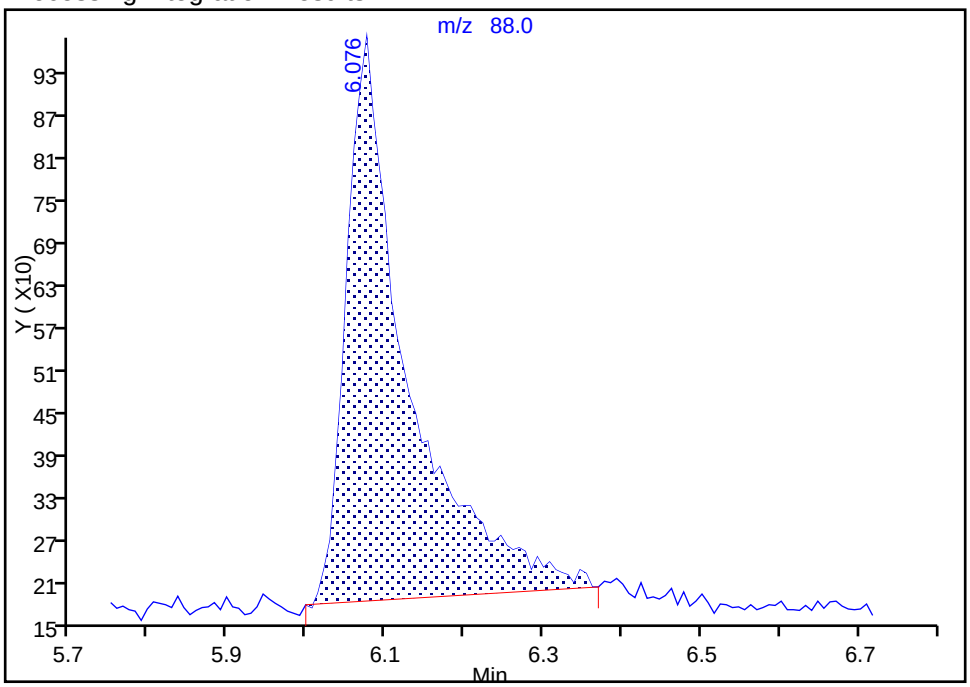
Data File:	\\ChromNA\Canton\ChromData\A3UX2\20171026-70052.b\X21334.D				
Injection Date:	26-Oct-2017 09:44:30	Instrument ID:	A3UX2		
Lims ID:	LCS				
Client ID:					
Operator ID:	002808	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	15.000 mL	Dil. Factor:	1.0000		
Method:	8260SIM_X2	Limit Group:	MSV SIM ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

8 1,4-Dioxane, CAS: 123-91-1

Signal: 1

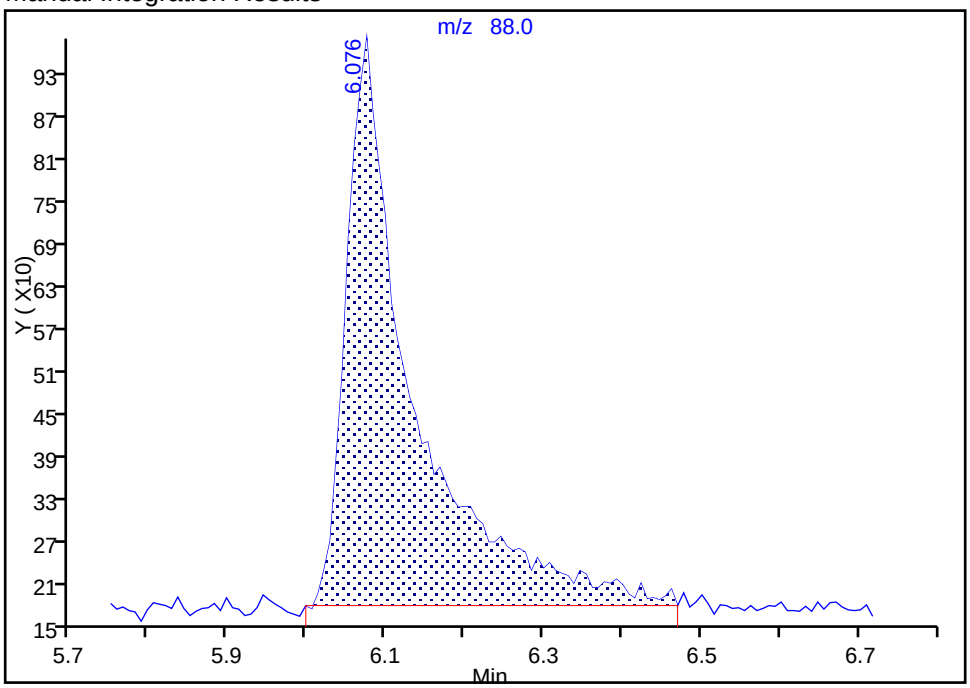
Processing Integration Results

RT: 6.08
Area: 4299
Amount: 9.696578
Amount Units: ug/l



Manual Integration Results

RT: 6.08
Area: 4700
Amount: 10.601051
Amount Units: ug/l



Reviewer: macenczaks, 26-Oct-2017 10:23:50

Audit Action: Manually Integrated Audit Reason: Poor chromatography

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Instrument ID: A3UX2 Start Date: 10/06/2017 14:32

Analysis Batch Number: 297993 End Date: 10/06/2017 21:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-297993/1		10/06/2017 14:32	1	BFBX2077.D	ZB-624 0.53(mm)
IC 240-297993/3		10/06/2017 15:17	1	X21217.D	ZB-624 0.53(mm)
IC 240-297993/4		10/06/2017 15:42	1	X21218.D	ZB-624 0.53(mm)
IC 240-297993/5		10/06/2017 16:07	1	X21219.D	ZB-624 0.53(mm)
ICIS 240-297993/6		10/06/2017 16:31	1	X21220.D	ZB-624 0.53(mm)
IC 240-297993/7		10/06/2017 16:56	1	X21221.D	ZB-624 0.53(mm)
IC 240-297993/8		10/06/2017 17:20	1	X21222.D	ZB-624 0.53(mm)
IC 240-297993/9		10/06/2017 17:45	1	X21223.D	ZB-624 0.53(mm)
IC 240-297993/10		10/06/2017 18:10	1	X21224.D	ZB-624 0.53(mm)
ICV 240-297993/11		10/06/2017 18:35	1	X21225.D	ZB-624 0.53(mm)
ZZZZZ		10/06/2017 19:00	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 19:25	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 19:49	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 20:14	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 20:39	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 21:04	1		ZB-624 0.53(mm)
ZZZZZ		10/06/2017 21:28	1		ZB-624 0.53(mm)

8260B SIM

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Instrument ID: A3UX2 Start Date: 10/26/2017 08:33

Analysis Batch Number: 300683 End Date: 10/26/2017 14:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-300683/1		10/26/2017 08:33	1	BFBX2084.D	ZB-624 0.53(mm)
CCVIS 240-300683/3		10/26/2017 09:19	1	X21333.D	ZB-624 0.53(mm)
LCS 240-300683/4		10/26/2017 09:44	1	X21334.D	ZB-624 0.53(mm)
MB 240-300683/5		10/26/2017 10:09	1	X21335.D	ZB-624 0.53(mm)
ZZZZZ		10/26/2017 10:34	1		ZB-624 0.53(mm)
ZZZZZ		10/26/2017 10:58	1		ZB-624 0.53(mm)
ZZZZZ		10/26/2017 11:48	3		ZB-624 0.53(mm)
ZZZZZ		10/26/2017 12:12	5		ZB-624 0.53(mm)
ZZZZZ		10/26/2017 12:37	1		ZB-624 0.53(mm)
ZZZZZ		10/26/2017 13:02	1		ZB-624 0.53(mm)
500-136132-1		10/26/2017 13:27	1	X21343.D	ZB-624 0.53(mm)
500-136132-2		10/26/2017 13:51	1	X21344.D	ZB-624 0.53(mm)
ZZZZZ		10/26/2017 14:16	1		ZB-624 0.53(mm)
ZZZZZ		10/26/2017 14:41	1		ZB-624 0.53(mm)

8260B SIM

Method RSK-175

Dissolved Gases (GC) by Method RSK_175

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): HP-PLOT/Q ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TFE1 #
OMW1D-GW-102317	500-136132-1	87
EIP-DUP-102317	500-136132-2	86
	MB 240-300908/4	91
	LCS 240-300908/5	90

QC LIMITS

TFE = 1,1,1-Trifluoroethane 60-140

Column to be used to flag recovery values

FORM II RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: RSK1027005.D

Lab ID: LCS 240-300908/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methane	285	292	103	80-120	
Ethane	536	583	109	80-120	
Ethylene	501	542	108	80-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: MB 240-300908/4

Matrix: Water Date Extracted:

Lab File ID:(1) RSK1027004.D Lab File ID:(2)

Date Analyzed:(1) 10/27/2017 11:42 Date Analyzed:(2)

Instrument ID:(1) ZPID Instrument ID:(2)

GC Column:(1) HP-PLOT/Q ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 240-300908/5	10/27/2017 11:59	
OMW1D-GW-102317	500-136132-1	10/27/2017 14:16	
EIP-DUP-102317	500-136132-2	10/27/2017 14:33	

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Sample No.: CCVRT 240-300908/3 Date Analyzed: 10/27/2017 11:25

Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53(mm)

Lab File ID (Standard): RSK1027003.D Heated Purge: (Y/N) N

Calibration ID: 41867

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.35		
UPPER LIMIT				3.40		
LOWER LIMIT				3.30		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-300908/3		10/27/2017 11:25	RSK1027003.D	3.35		
MB 240-300908/4		10/27/2017 11:42	RSK1027004.D	3.34		
LCS 240-300908/5		10/27/2017 11:59	RSK1027005.D	3.35		
500-136132-1	OMW1D-GW-102317	10/27/2017 14:16	RSK1027013.D	3.34		
500-136132-2	EIP-DUP-102317	10/27/2017 14:33	RSK1027014.D	3.35		
CCV 240-300908/19		10/27/2017 15:59	RSK1027019.D	3.35		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII RSK-175

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136132-1

SDG No.:

Client Sample ID: OMW1D-GW-102317 | Lab Sample ID: 500-136132-1

Matrix: Water | Lab File ID: RSK1027013.D

Analysis Method: RSK-175 | Date Collected: 10/23/2017 12:30

Sample wt/vol: 23(mL) | Date Analyzed: 10/27/2017 14:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300908 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	1.6		1.0	0.17
74-84-0	Ethane	0.30	J	1.0	0.10
74-85-1	Ethylene	ND		1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	87		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027013.D
Lims ID: 500-136132-A-1
Client ID: OMW1D-GW-102317
Sample Type: Client
Inject. Date: 27-Oct-2017 14:16:33 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-013
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Methane					
1.181	1.186	-0.005	11242	1.61	
2 Ethylene					
	1.886			ND	
4 Ethane					
2.201	2.206	-0.005	2008	0.3037	
$ 5 1,1,1-Trifluoroethane					
3.344	3.349	-0.005	25043294	8489.2	

Reagents:

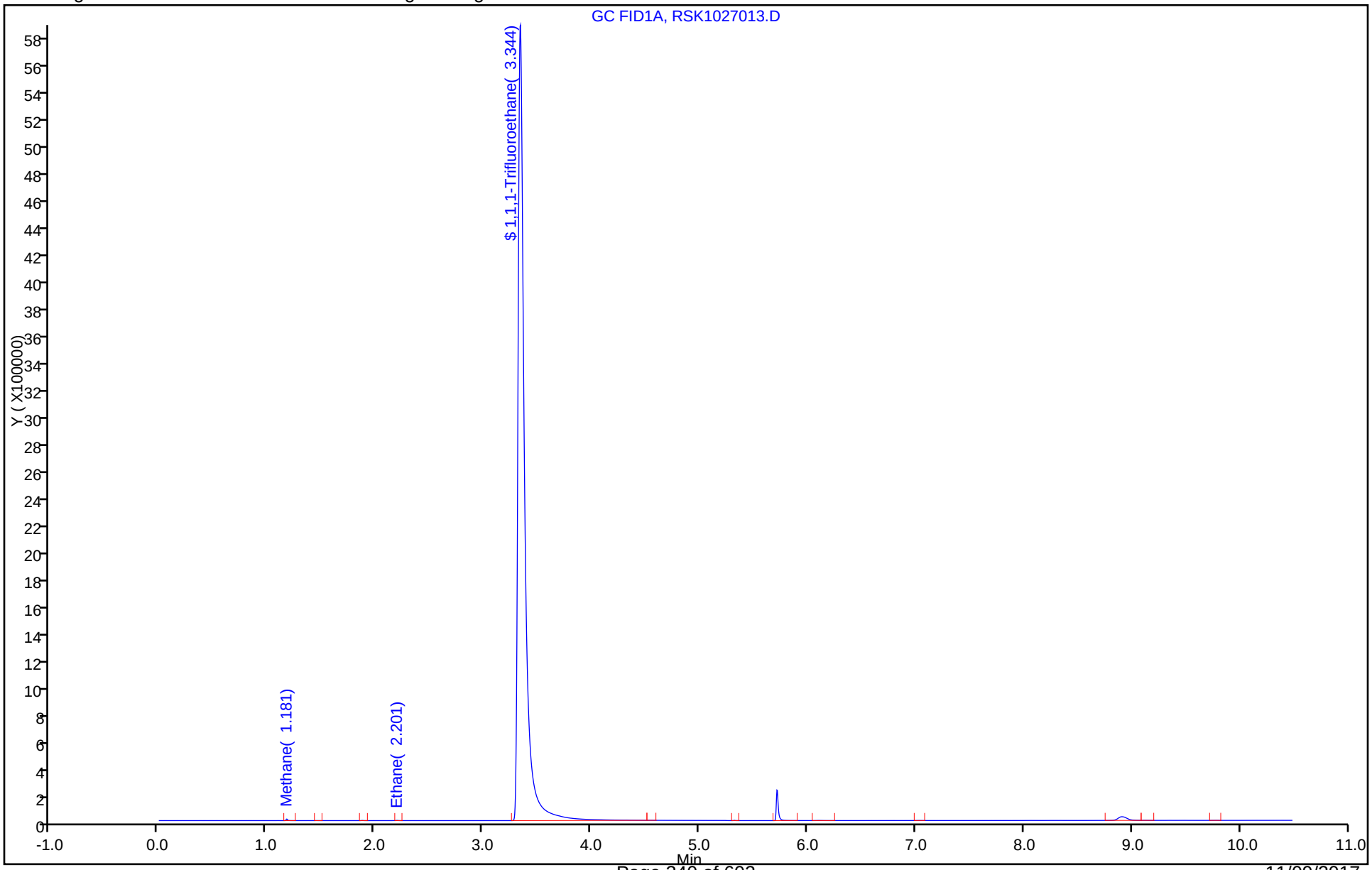
SARSKSURR_00010 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 27-Oct-2017 17:40:22 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027013.D				
Injection Date:	27-Oct-2017 14:16:33	Instrument ID:	ZPID	Operator ID:	
Lims ID:	500-136132-A-1	Lab Sample ID:	240-136132-1	Worklist Smp#:	13
Client ID:	OMW1D-GW-102317				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	RSK175	Limit Group:	GCV RSK 175 ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027013.D
Lims ID: 500-136132-A-1
Client ID: OMW1D-GW-102317
Sample Type: Client
Inject. Date: 27-Oct-2017 14:16:33 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-013
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9730.4	8489.2	87.24

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136132-1

SDG No.:

Client Sample ID: EIP-DUP-102317 | Lab Sample ID: 500-136132-2

Matrix: Water | Lab File ID: RSK1027014.D

Analysis Method: RSK-175 | Date Collected: 10/23/2017 12:30

Sample wt/vol: 23(mL) | Date Analyzed: 10/27/2017 14:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300908 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	1.4		1.0	0.17
74-84-0	Ethane	0.37	J	1.0	0.10
74-85-1	Ethylene	0.26	J	1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	86		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027014.D
Lims ID: 500-136132-A-2
Client ID: EIP-DUP-102317
Sample Type: Client
Inject. Date: 27-Oct-2017 14:33:41 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-014
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Methane					
1.185	1.186	-0.001	9973	1.43	
2 Ethylene					
1.882	1.886	-0.004	1669	0.2606	
4 Ethane					
2.205	2.206	-0.001	2450	0.3706	
$ 5 1,1,1-Trifluoroethane					
3.345	3.349	-0.004	24572720	8329.7	

Reagents:

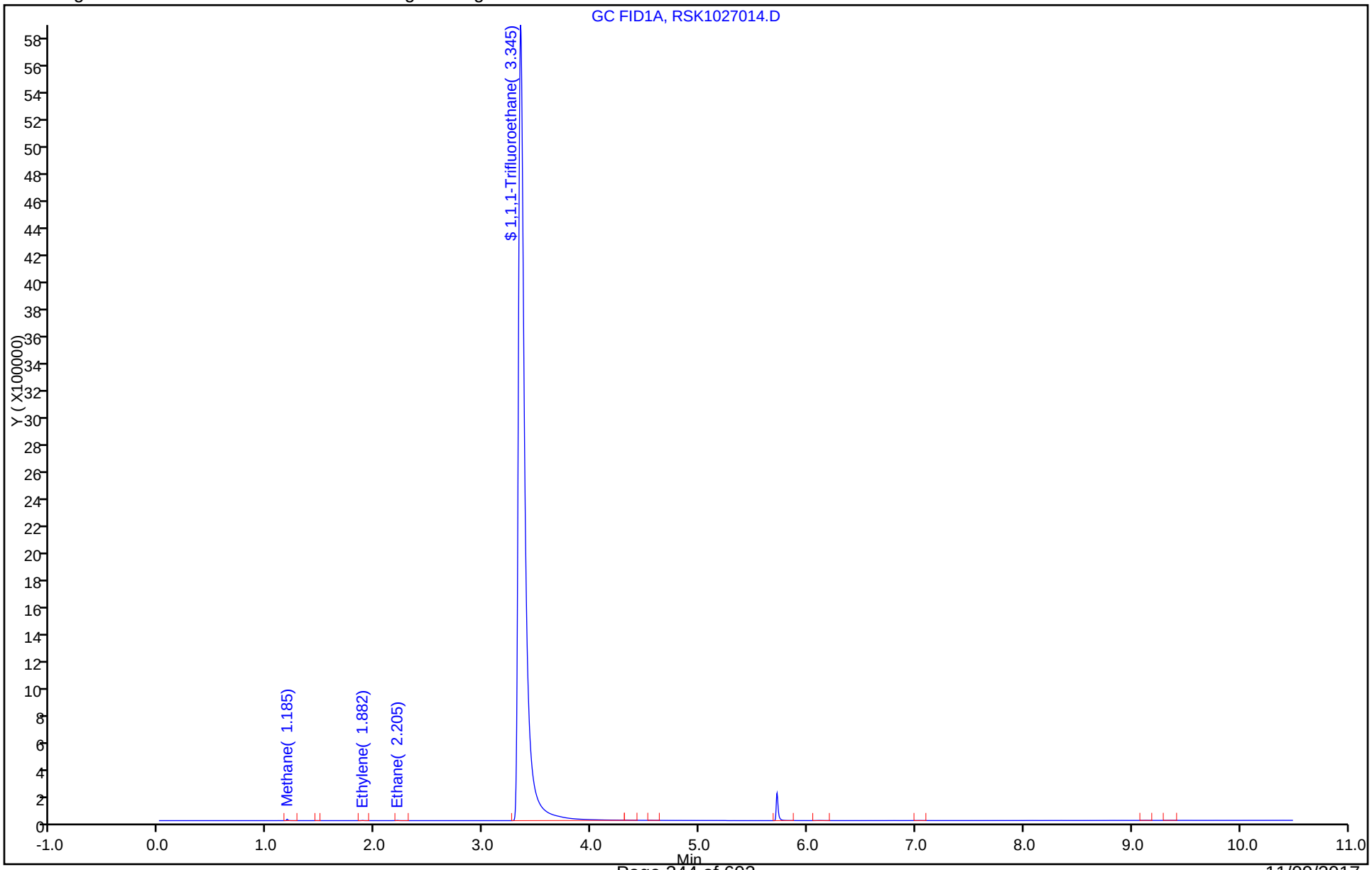
SARSKSURR_00010 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 27-Oct-2017 17:40:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File:	\\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027014.D				
Injection Date:	27-Oct-2017 14:33:41	Instrument ID:	ZPID	Operator ID:	
Lims ID:	500-136132-A-2	Lab Sample ID:	240-136132-2	Worklist Smp#:	14
Client ID:	EIP-DUP-102317				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	RSK175	Limit Group:	GCV RSK 175 ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027014.D
Lims ID: 500-136132-A-2
Client ID: EIP-DUP-102317
Sample Type: Client
Inject. Date: 27-Oct-2017 14:33:41 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-014
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9730.4	8329.7	85.60

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1 Analy Batch No.: 299071

SDG No.:

Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/15/2017 12:40 Calibration End Date: 10/15/2017 14:06 Calibration ID: 41867

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-299071/3	RSK1015003.D
Level 2	STD2 240-299071/4	RSK1015004.D
Level 3	STD3 240-299071/5	RSK1015005.D
Level 4	STD4 240-299071/6	RSK1015006.D
Level 5	STD5 240-299071/7	RSK1015007.D
Level 6	STD6 240-299071/8	RSK1015008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Methane	1.186	1.185	1.186	1.184	1.185	1.184					1.134 - 1.234	1.185
Ethylene	1.886	1.885	1.886	1.881	1.885	1.877					1.827 - 1.927	1.883
Acetylene	1.999	1.999	2.000	1.994	1.999	1.991					1.941 - 2.041	1.997
Ethane	2.206	2.205	2.210	2.204	2.205	2.194					1.994 - 2.394	2.204
Propane	4.556	4.555	4.556	4.551	4.552	4.527					4.477 - 4.577	4.550
1,1,1-Trifluoroethane	3.353	3.352	3.353	3.348	3.345						3.253 - 3.453	3.350

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 500-136132-1 Analy Batch No.: 299071

SDG No.:

Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/15/2017 12:40 Calibration End Date: 10/15/2017 14:06 Calibration ID: 41867

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-299071/3	RSK1015003.D
Level 2	STD2 240-299071/4	RSK1015004.D
Level 3	STD3 240-299071/5	RSK1015005.D
Level 4	STD4 240-299071/6	RSK1015006.D
Level 5	STD5 240-299071/7	RSK1015007.D
Level 6	STD6 240-299071/8	RSK1015008.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Methane	8358.5 6728.4	6638.0 6649.2	6527.1	6873.9	Ave		6962.52724				10.0		20.0			
Ethylene	6446.8 6537.9	6223.7 6385.2	6289.9	6549.2	Ave		6405.46217				2.1		20.0			
Acetylene	2955.9 4235.1	3209.0 4170.4	3492.2	3951.4	Ave		3668.98974				14.4		30.0			
Ethane	6724.8 6799.6	6335.3 6629.9	6411.6	6769.4	Ave		6611.75812				2.9		20.0			
Propane	6256.3 6976.4	6176.0 6910.7	6465.6	6820.1	Ave		6600.83907				5.3		20.0			
1,1,1-Trifluoroethane	2924.6 2878.1	3082.2	2885.3	2979.7	Ave		2950.01861				2.9		30.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 500-136132-1 Analy Batch No.: 299071

SDG No.:

Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/15/2017 12:40 Calibration End Date: 10/15/2017 14:06 Calibration ID: 41867

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-299071/3	RSK1015003.D
Level 2	STD2 240-299071/4	RSK1015004.D
Level 3	STD3 240-299071/5	RSK1015005.D
Level 4	STD4 240-299071/6	RSK1015006.D
Level 5	STD5 240-299071/7	RSK1015007.D
Level 6	STD6 240-299071/8	RSK1015008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methane	Ave	2384 28438455	13253	65157	686192	2877720	0.285 4277	2.00	9.98	99.8	428
Ethylene	Ave	3229 47964177	21821	110265	1148104	4911089	0.501 7512	3.51	17.5	175	751
Acetylene	Ave	1370 28985079	10411	56649	640992	2943469	0.463 6950	3.24	16.2	162	695
Ethane	Ave	3608 53347403	23793	120399	1271181	5471300	0.537 8047	3.76	18.8	188	805
Propane	Ave	4918 81472393	33984	177889	1876410	8224688	0.786 11789	5.50	27.5	275	1179
1,1,1-Trifluoroethane	Ave	875652	1614969	7558994	15612644	32314773	299	524	2620	5240	11228

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015003.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Oct-2017 12:40:31 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-003
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:02 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

First Level Reviewer: matthewsb Date: 16-Oct-2017 07:07:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.186	1.184	0.002	2384	0.2852	0.3424	
2 Ethylene						
1.886	1.877	0.009	3229	0.5009	0.5041	
3 Acetylene						
1.999	1.991	0.008	1370	0.4635	0.3734	
4 Ethane						
2.206	2.194	0.012	3608	0.5365	0.5457	
$ 5 1,1,1-Trifluoroethane						
3.353	3.353	0.000	875652	299.4	296.8	
6 Propane						M
4.556	4.527	0.029	4918	0.7861	0.7451	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SARSKLOWCAL_00009 Amount Added: 10.00 Units: uL
SAICALSURR_00012 Amount Added: 40.00 Units: uL

Report Date: 16-Oct-2017 07:09:02 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015003.D

Injection Date: 15-Oct-2017 12:40:31 Instrument ID: ZPID Operator ID:

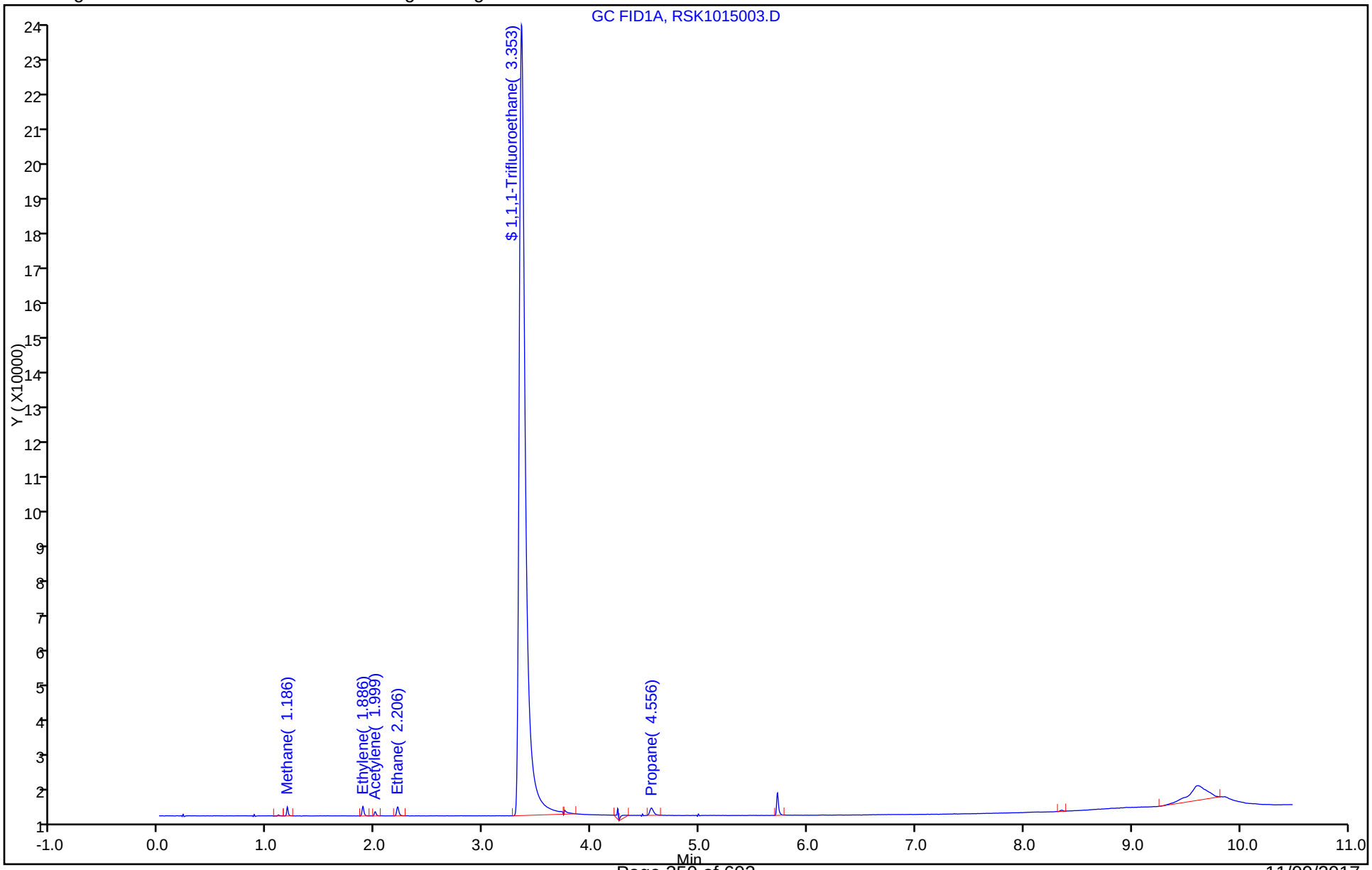
Lims ID: STD1 Worklist Smp#: 3

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Canton

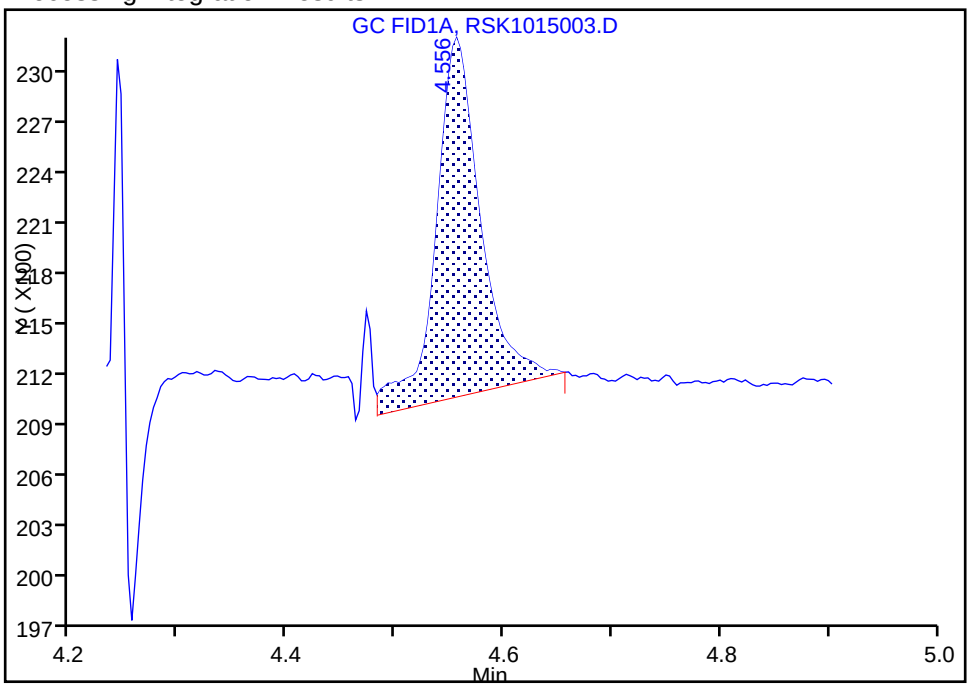
Data File:	\\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015003.D				
Injection Date:	15-Oct-2017 12:40:31	Instrument ID:	ZPID		
Lims ID:	STD1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK175	Limit Group:	GCV RSK 175 ICAL		
Column:		Detector	GC FID1A		

6 Propane, CAS: 74-98-6

Signal: 1

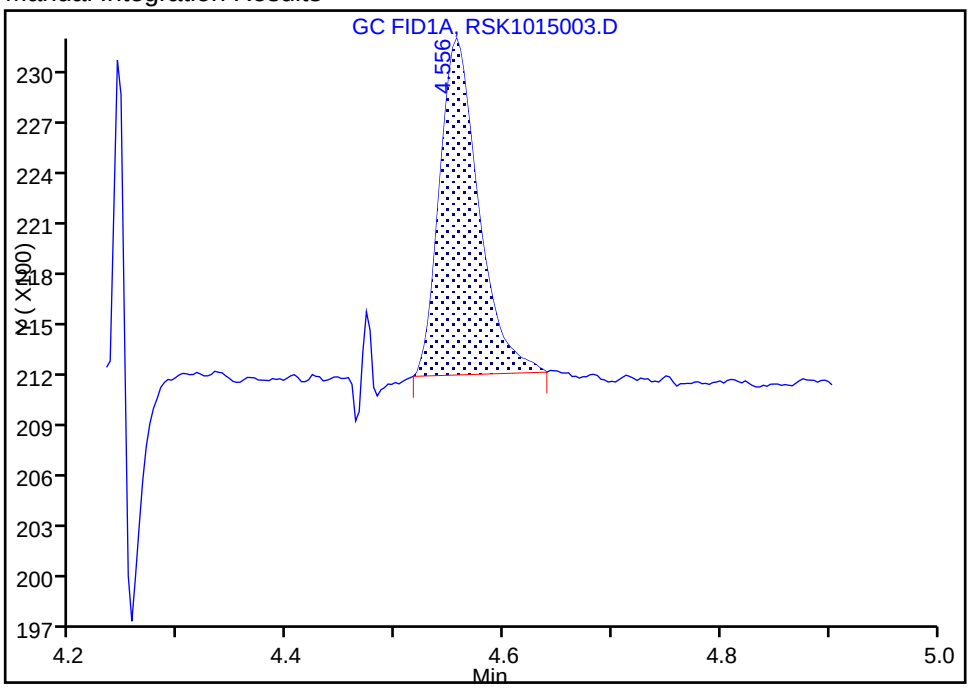
Processing Integration Results

RT: 4.56
Area: 6065
Amount: 0.881602
Amount Units: ug/l



Manual Integration Results

RT: 4.56
Area: 4918
Amount: 0.745057
Amount Units: ug/l



Reviewer: matthewsb, 16-Oct-2017 07:07:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015004.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Oct-2017 12:57:39 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-004
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:03 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

First Level Reviewer: matthewsb Date: 16-Oct-2017 07:08:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.185	1.184	0.001	13253	2.00	1.90	
2 Ethylene						
1.885	1.877	0.008	21821	3.51	3.41	
3 Acetylene						
1.999	1.991	0.008	10411	3.24	2.84	
4 Ethane						
2.205	2.194	0.011	23793	3.76	3.60	
$ 5 1,1,1-Trifluoroethane						
3.352	3.353	-0.001	1614969	524.0	547.4	
6 Propane						M
4.555	4.527	0.028	33984	5.50	5.15	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SARSKLOWCAL_00009 Amount Added: 70.00 Units: uL
SAICALSURR_00012 Amount Added: 70.00 Units: uL

Report Date: 16-Oct-2017 07:09:03 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015004.D

Injection Date: 15-Oct-2017 12:57:39 Instrument ID: ZPID Operator ID:

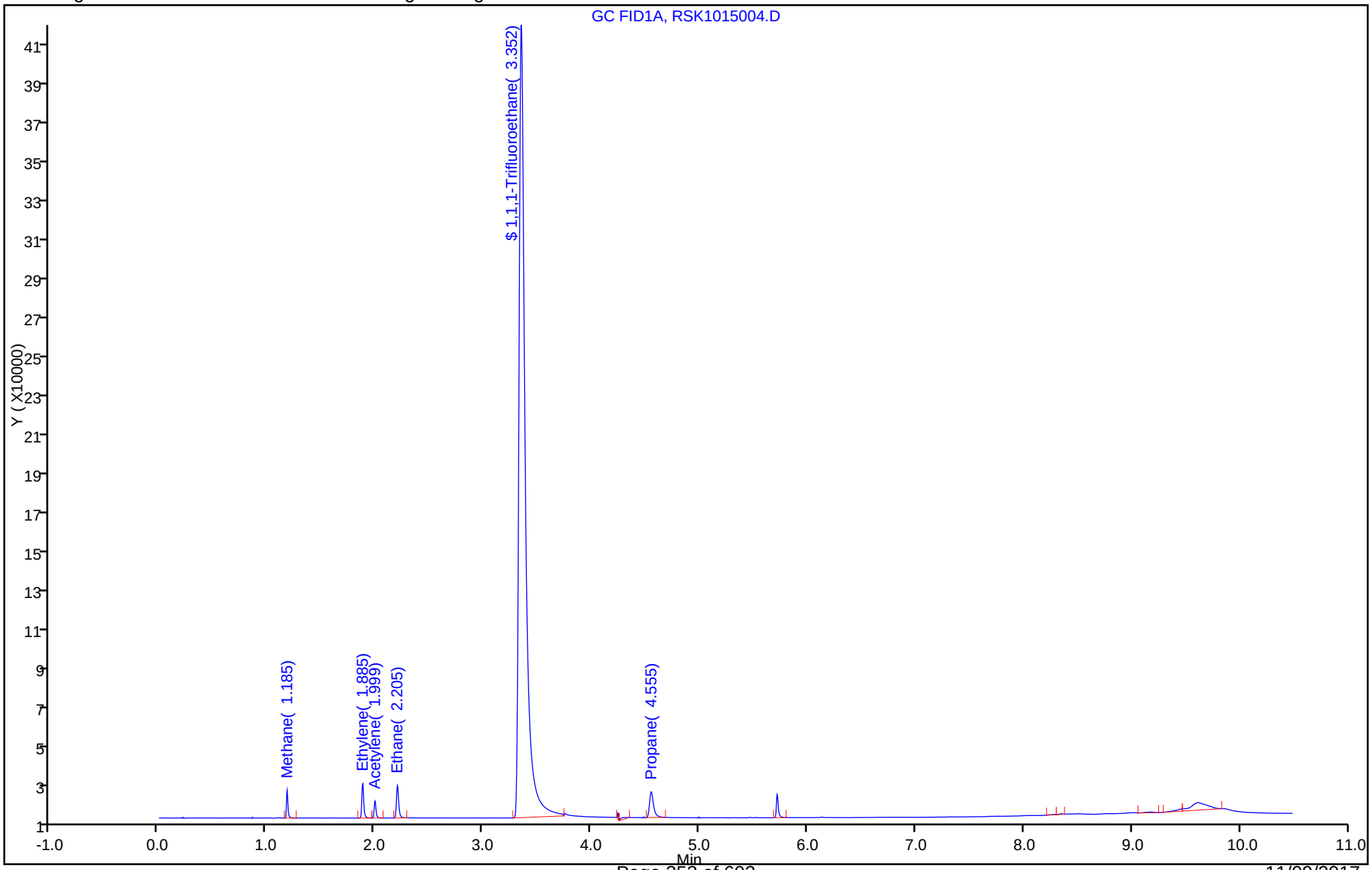
Lims ID: STD2 Worklist Smp#: 4

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Canton

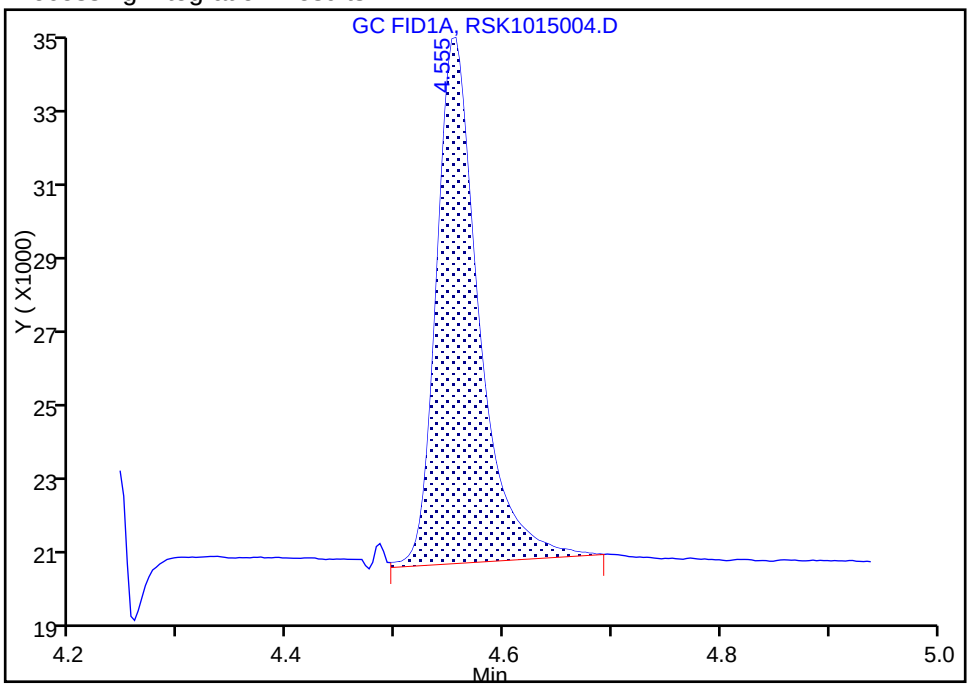
Data File:	\\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015004.D				
Injection Date:	15-Oct-2017 12:57:39	Instrument ID:	ZPID		
Lims ID:	STD2				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK175	Limit Group:	GCV RSK 175 ICAL		
Column:		Detector	GC FID1A		

6 Propane, CAS: 74-98-6

Signal: 1

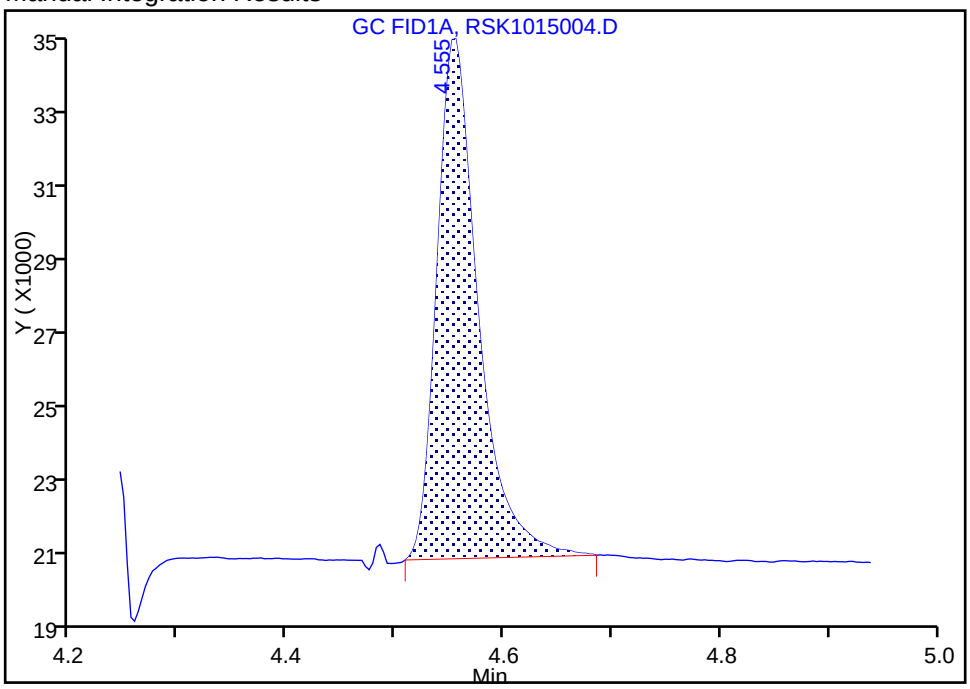
Processing Integration Results

RT: 4.56
Area: 35156
Amount: 5.297500
Amount Units: ug/l



Manual Integration Results

RT: 4.56
Area: 33984
Amount: 5.148436
Amount Units: ug/l



Reviewer: matthewsb, 16-Oct-2017 07:08:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015005.D
Lims ID: STD3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 15-Oct-2017 13:14:49 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-005
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:04 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.186	1.186	0.000	65157	9.98	9.36	
2 Ethylene						
1.886	1.886	0.000	110265	17.5	17.2	
3 Acetylene						
2.000	2.000	0.000	56649	16.2	15.4	
4 Ethane						
2.210	2.210	0.000	120399	18.8	18.2	
$ 5 1,1,1-Trifluoroethane						
3.353	3.353	0.000	7558994	2619.8	2562.4	
6 Propane						
4.556	4.556	0.000	177889	27.5	26.9	

Reagents:

SARSKLOWCAL_00009 Amount Added: 350.00 Units: uL
SAICALSURR_00012 Amount Added: 350.00 Units: uL

Report Date: 16-Oct-2017 07:09:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015005.D

Injection Date: 15-Oct-2017 13:14:49 Instrument ID: ZPID Operator ID:

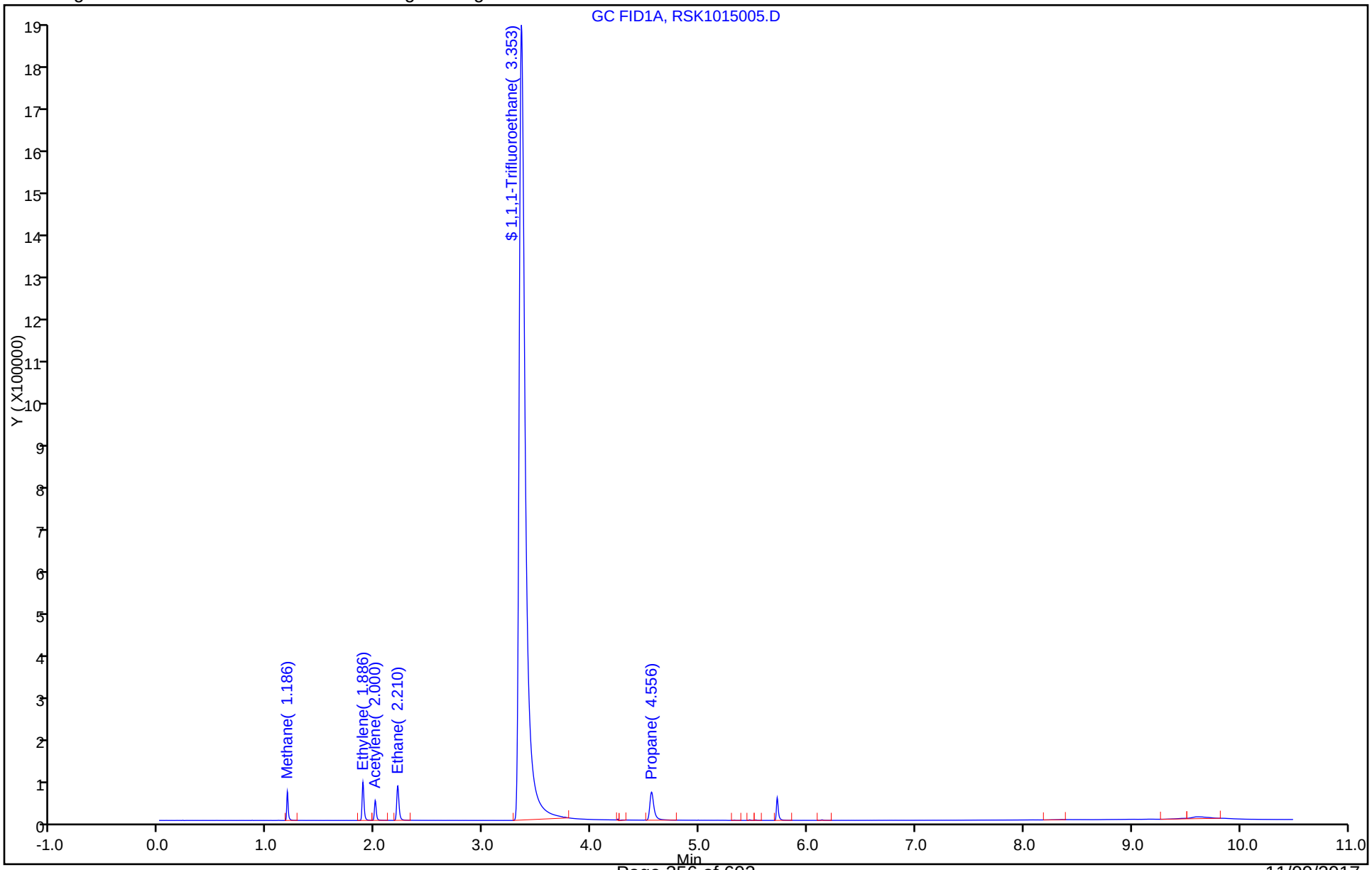
Lims ID: STD3 Worklist Smp#: 5

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015006.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Oct-2017 13:32:01 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-006
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:04 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.184	1.186	-0.002	686192	99.8	98.6	
2 Ethylene						
1.881	1.886	-0.005	1148104	175.3	179.2	
3 Acetylene						
1.994	2.000	-0.006	640992	162.2	174.7	
4 Ethane						
2.204	2.210	-0.006	1271181	187.8	192.3	
$ 5 1,1,1-Trifluoroethane						
3.348	3.353	-0.005	15612644	5239.6	5292.4	
6 Propane						
4.551	4.556	-0.005	1876410	275.1	284.3	

Reagents:

SARSKLOWCAL_00009 Amount Added: 3.50 Units: mL
SAICALSURR_00012 Amount Added: 0.70 Units: mL

Report Date: 16-Oct-2017 07:09:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015006.D

Injection Date: 15-Oct-2017 13:32:01 Instrument ID: ZPID Operator ID:

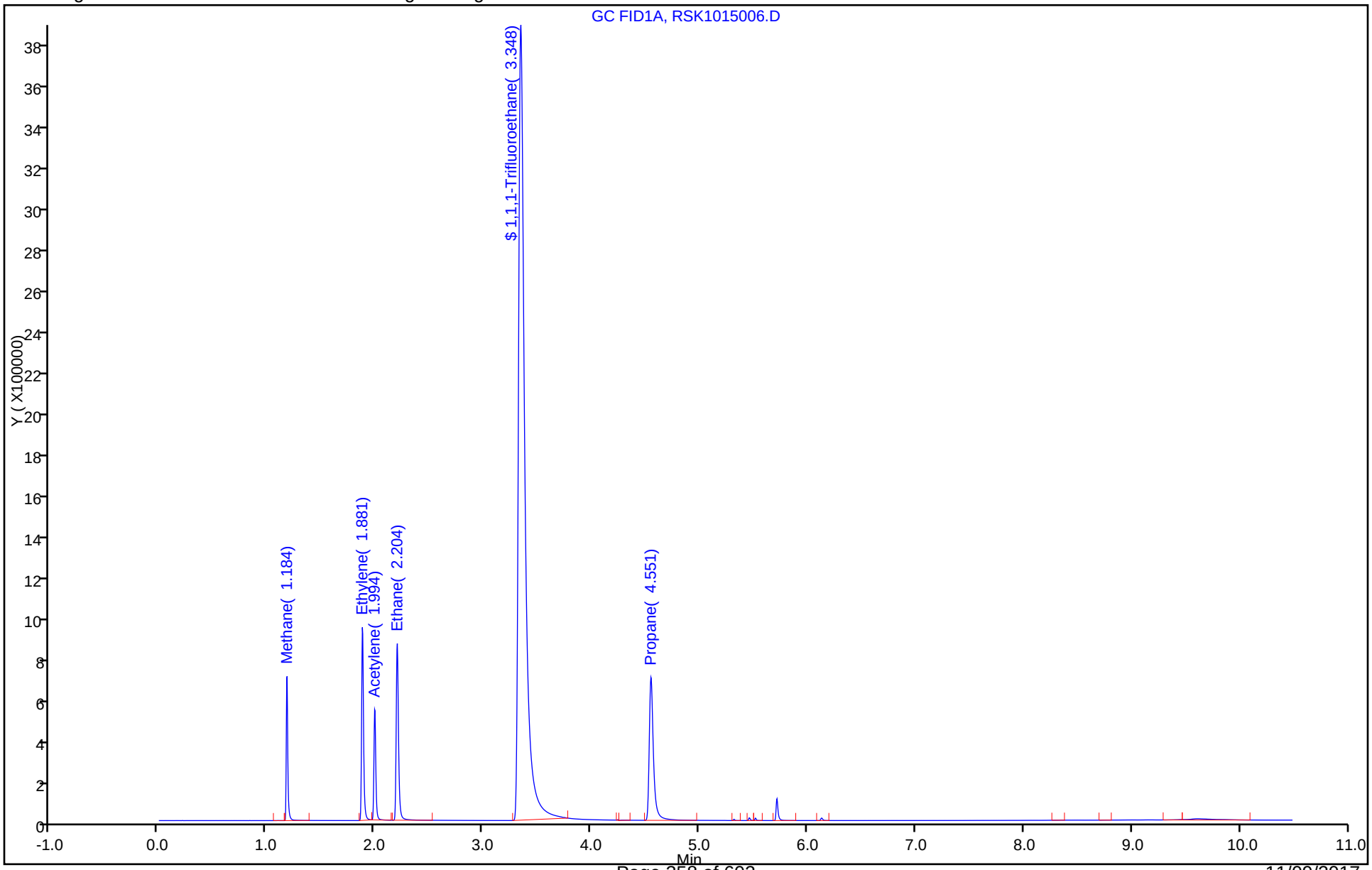
Lims ID: STD4 Worklist Smp#: 6

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015007.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Oct-2017 13:49:13 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-007
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:05 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.185	1.186	-0.001	2877720	427.7	413.3	
2 Ethylene						
1.885	1.886	-0.001	4911089	751.2	766.7	
3 Acetylene						
1.999	2.000	-0.001	2943469	695.0	802.3	
4 Ethane						
2.205	2.210	-0.005	5471300	804.7	827.5	
$ 5 1,1,1-Trifluoroethane						
3.345	3.353	-0.008	32314773	11228	10954	
6 Propane						
4.552	4.556	-0.004	8224688	1178.9	1246.0	

Reagents:

SAICALSURR_00012 Amount Added: 1.50 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.50 Units: mL

Report Date: 16-Oct-2017 07:09:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015007.D

Injection Date: 15-Oct-2017 13:49:13 Instrument ID: ZPID Operator ID:

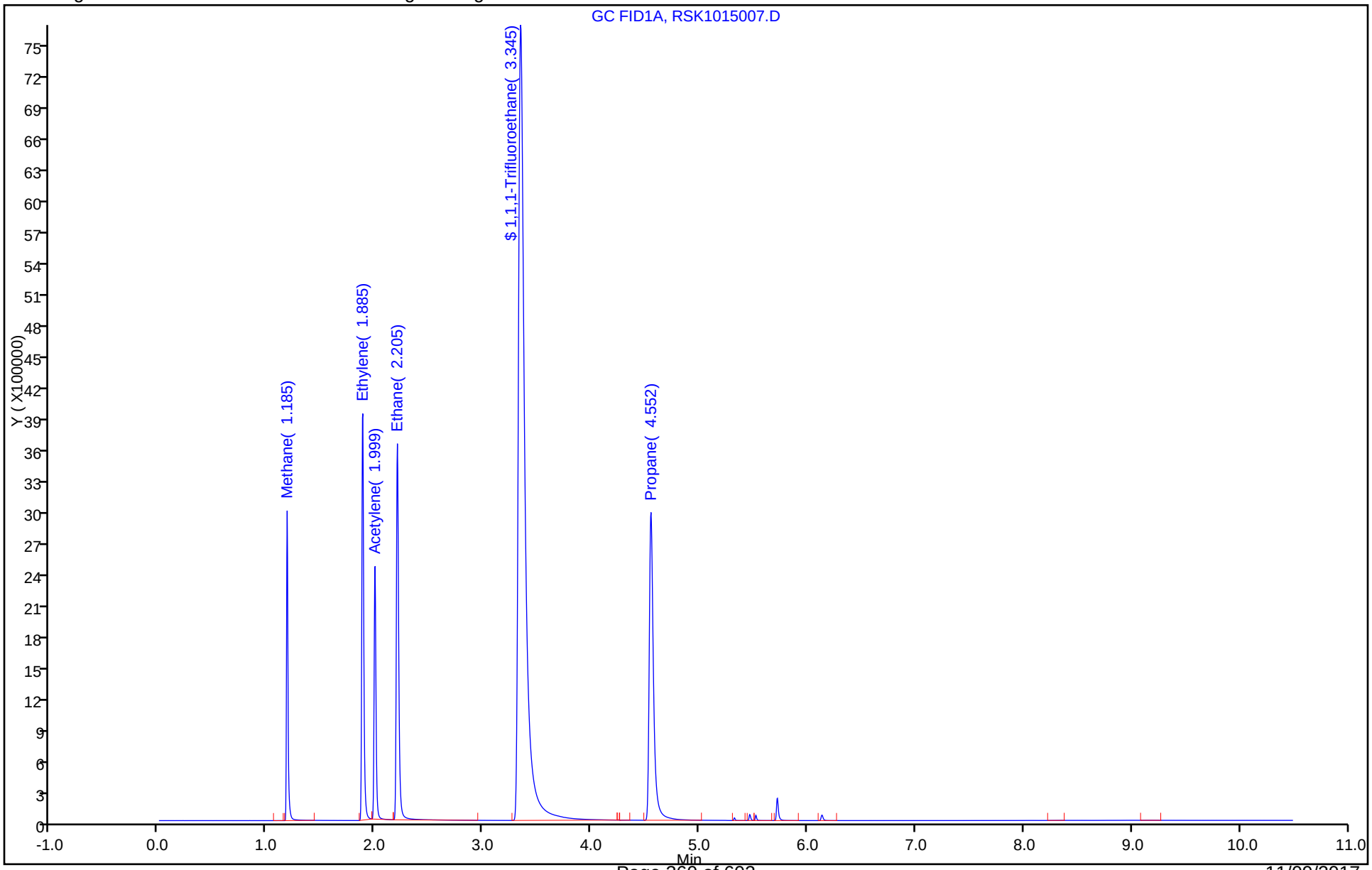
Lims ID: STD5 Worklist Smp#: 7

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Oct-2017 14:06:25 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-008
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:09:06 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.184	1.184	0.000	28438455	4277.0	4084.5	
2 Ethylene						
1.877	1.877	0.000	47964177	7511.7	7488.0	
3 Acetylene						
1.991	1.991	0.000	28985079	6950.2	7900.0	
4 Ethane						
2.194	2.194	0.000	53347403	8046.5	8068.6	
6 Propane						
4.527	4.527	0.000	81472393	11789	12343	

Reagents:

SARSKHIGHCALP_00008 Amount Added: 15.00 Units: mL

Report Date: 16-Oct-2017 07:09:07 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Injection Date: 15-Oct-2017 14:06:25 Instrument ID: ZPID Operator ID:

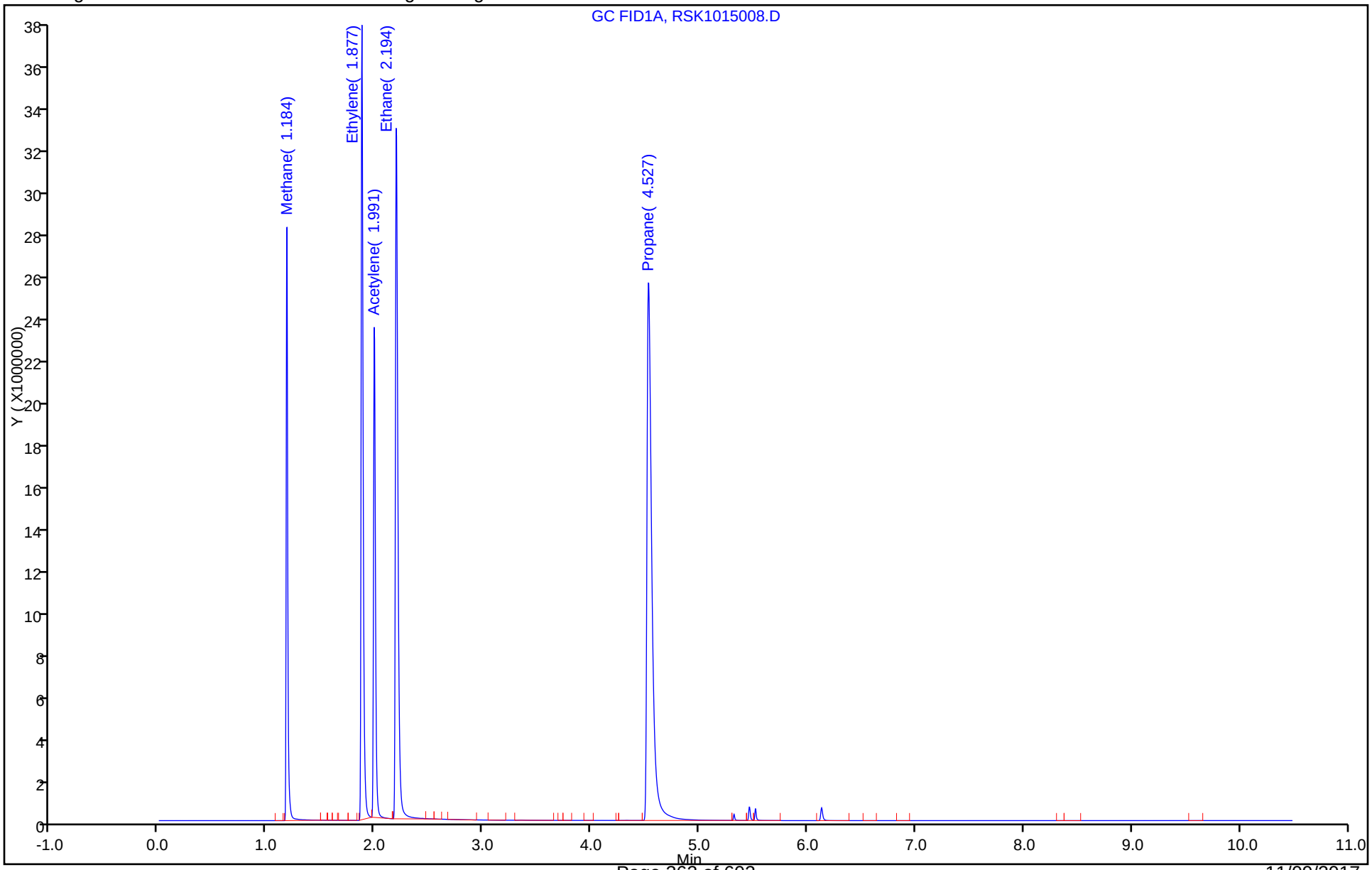
Lims ID: STD6 Worklist Smp#: 8

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: ICV 240-299071/9 Calibration Date: 10/15/2017 14:23

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1015009.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	6963	5791		237	285	-16.8	20.0
Ethylene	Ave	6405	5491		429	501	-14.3	20.0
Acetylene	Ave	3669	3820		482	463	4.1	30.0
Ethane	Ave	6612	5531		449	536	-16.4	20.0
Propane	Ave	6601	5285		628	784	-19.9	20.0
1,1,1-Trifluoroethane	Ave	2950	2738		8580	9240	-7.2	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: ICV 240-299071/9 Calibration Date: 10/15/2017 14:23

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1015009.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethylene	1.88	1.83	1.93
Acetylene	2.00	1.94	2.04
Ethane	2.20	1.99	2.39
Propane	4.55	4.48	4.58
1,1,1-Trifluoroethane	3.35	3.25	3.45

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015009.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Oct-2017 14:23:37 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0069667-009
Operator ID: Instrument ID: ZPID
Sublist:

Method: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 16-Oct-2017 07:12:17 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK021

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.182	1.184	-0.002	1651296	285.1	237.2	
2 Ethylene						
1.882	1.877	0.005	2750044	500.8	429.3	
3 Acetylene						
1.995	1.991	0.004	1770160	463.3	482.5	
4 Ethane						
2.202	2.194	0.008	2966772	536.4	448.7	
$ 5 1,1,1-Trifluoroethane						
3.345	3.353	-0.008	25312930	9243.9	8580.6	
6 Propane						
4.548	4.527	0.021	4142305	783.8	627.5	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSK2NDSRCE_00010 Amount Added: 1.00 Units: mL

Report Date: 16-Oct-2017 07:12:18 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015009.D

Injection Date: 15-Oct-2017 14:23:37 Instrument ID: ZPID Operator ID:

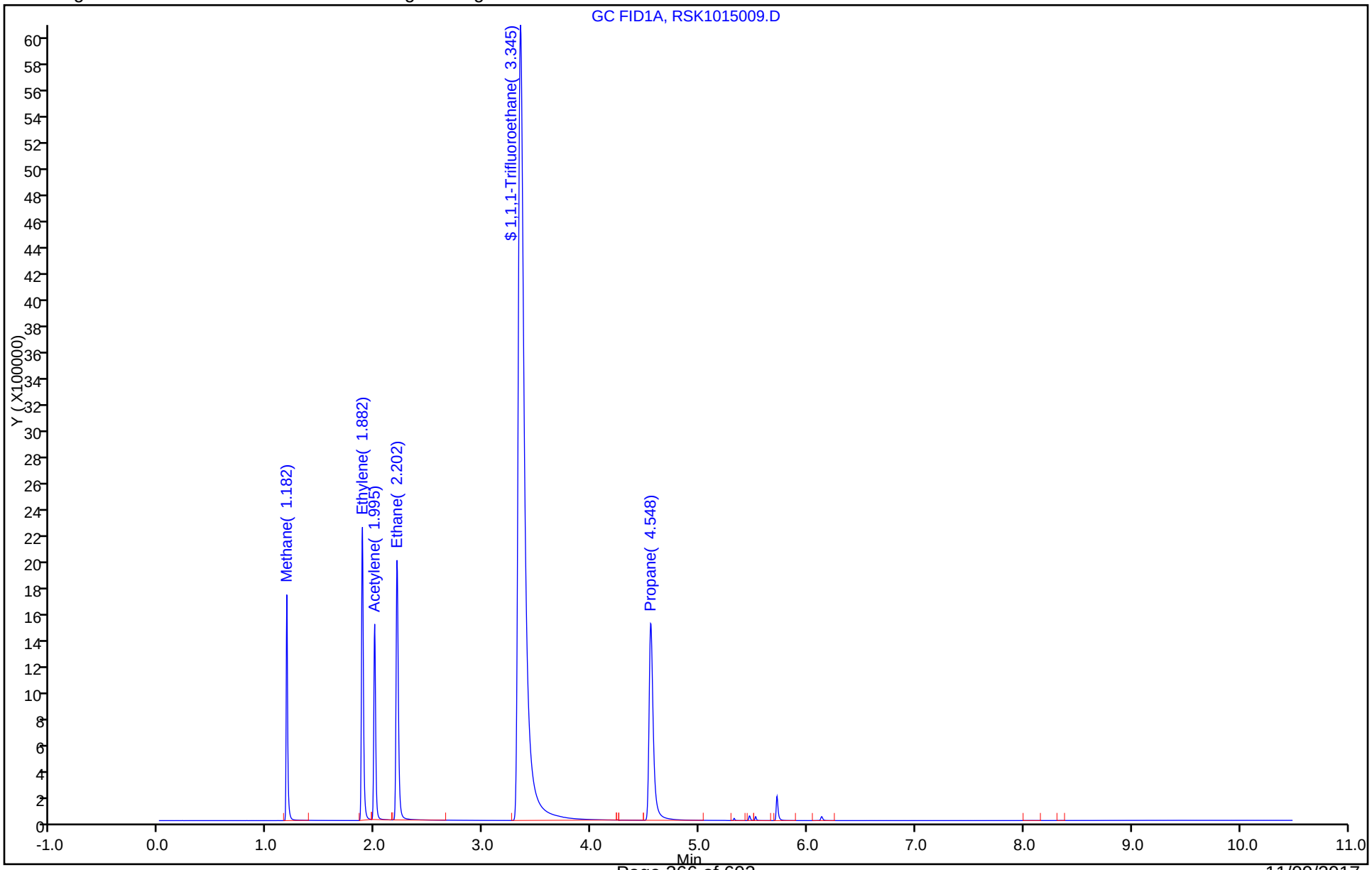
Lims ID: ICV Worklist Smp#: 9

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCVRT 240-300908/3 Calibration Date: 10/27/2017 11:25

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1027003.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	6963	7182		294	285	3.2	20.0
Ethylene	Ave	6405	6964		544	501	8.7	20.0
Acetylene	Ave	3669	4337		548	463	18.2	30.0
Ethane	Ave	6612	7251		588	536	9.7	20.0
Propane	Ave	6601	7513		895	786	13.8	20.0
1,1,1-Trifluoroethane	Ave	2950	2598		8140	9240	-11.9	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCVRT 240-300908/3 Calibration Date: 10/27/2017 11:25

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1027003.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.19	1.14	1.24
Ethylene	1.89	1.84	1.94
Acetylene	2.00	1.95	2.05
Ethane	2.21	2.01	2.41
Propane	4.55	4.50	4.60
1,1,1-Trifluoroethane	3.35	3.25	3.45

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027003.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 27-Oct-2017 11:25:26 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-003
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.186	1.186	0.000	2047806	285.1	294.1	
2 Ethylene						
1.886	1.886	0.000	3487490	500.8	544.5	
3 Acetylene						
1.999	1.999	0.000	2009716	463.3	547.8	
4 Ethane						
2.206	2.206	0.000	3889699	536.4	588.3	
$ 5 1,1,1-Trifluoroethane						
3.349	3.349	0.000	24011760	9243.9	8139.5	
6 Propane						
4.553	4.553	0.000	5904817	786.0	894.6	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.00 Units: mL

Report Date: 27-Oct-2017 17:40:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027003.D

Injection Date: 27-Oct-2017 11:25:26 Instrument ID: ZPID Operator ID:

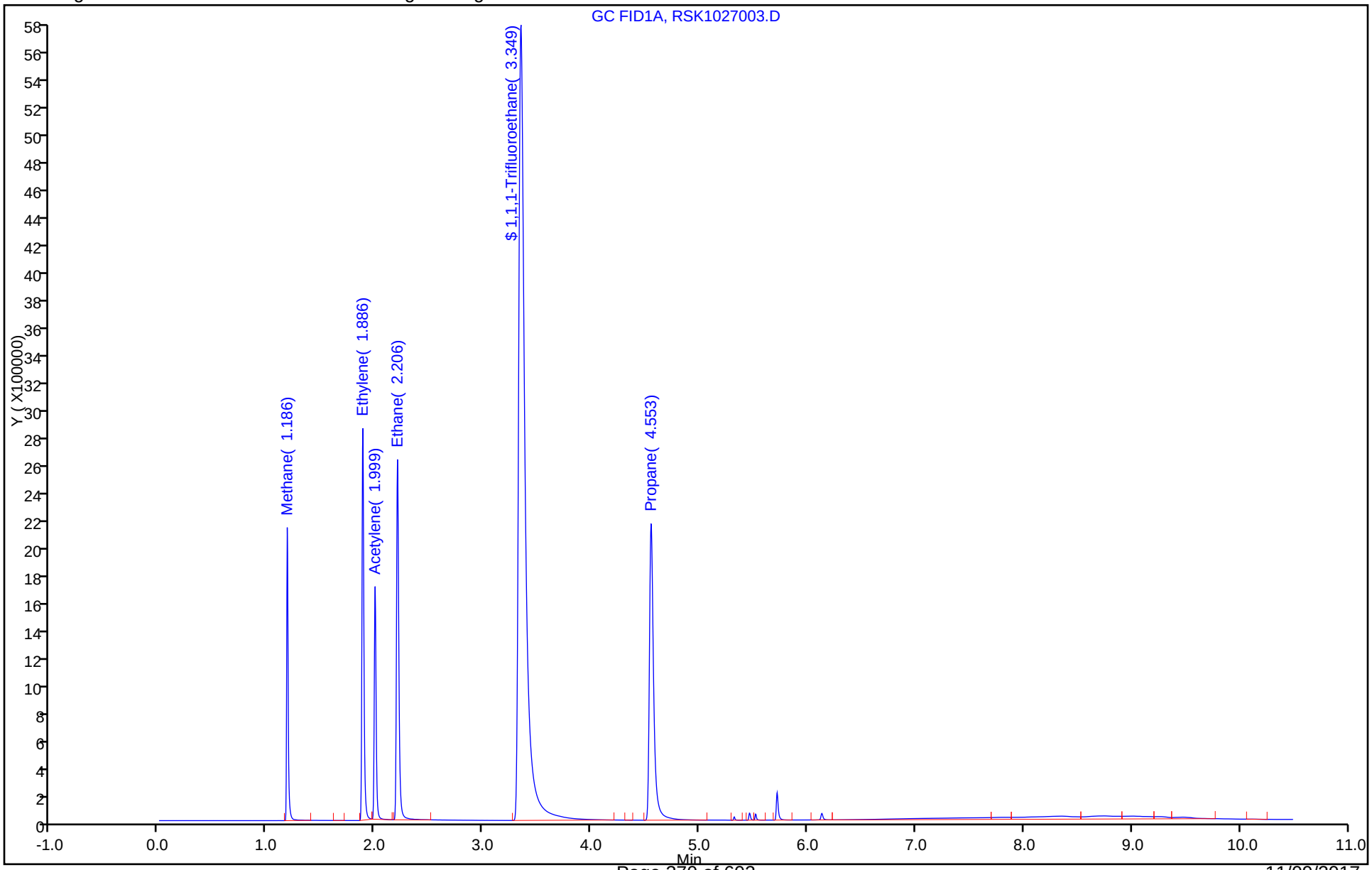
Lims ID: CCVRT Worklist Smp#: 3

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCV 240-300908/19 Calibration Date: 10/27/2017 15:59

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1027019.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	6963	6945		284	285	-0.2	20.0
Ethylene	Ave	6405	6702		524	501	4.6	20.0
Acetylene	Ave	3669	4326		546	463	17.9	30.0
Ethane	Ave	6612	6918		561	536	4.6	20.0
Propane	Ave	6601	7065		841	786	7.0	20.0
1,1,1-Trifluoroethane	Ave	2950	2610		8180	9240	-11.5	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Lab Sample ID: CCV 240-300908/19 Calibration Date: 10/27/2017 15:59

Instrument ID: ZPID Calib Start Date: 10/15/2017 12:40

GC Column: HP-PLOT/Q ID: 0.53(mm) Calib End Date: 10/15/2017 14:06

Lab File ID: RSK1027019.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethylene	1.88	1.83	1.93
Acetylene	2.00	1.95	2.05
Ethane	2.20	2.00	2.40
Propane	4.55	4.50	4.60
1,1,1-Trifluoroethane	3.35	3.25	3.45

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027019.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 27-Oct-2017 15:59:39 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-019
Operator ID: Instrument ID: ZPID
Sublist: chrom-RSK175*sub17

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:26 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.182	1.182	0.000	1980329	285.1	284.4	
2 Ethylene						
1.882	1.882	0.000	3356399	500.8	524.0	
3 Acetylene						
1.996	1.996	0.000	2004527	463.3	546.3	
4 Ethane						
2.202	2.202	0.000	3711321	536.4	561.3	
$ 5 1,1,1-Trifluoroethane						
3.346	3.346	0.000	24127514	9243.9	8178.8	
6 Propane						
4.549	4.549	0.000	5552912	786.0	841.2	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.00 Units: mL

Report Date: 27-Oct-2017 17:40:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027019.D

Injection Date: 27-Oct-2017 15:59:39 Instrument ID: ZPID Operator ID:

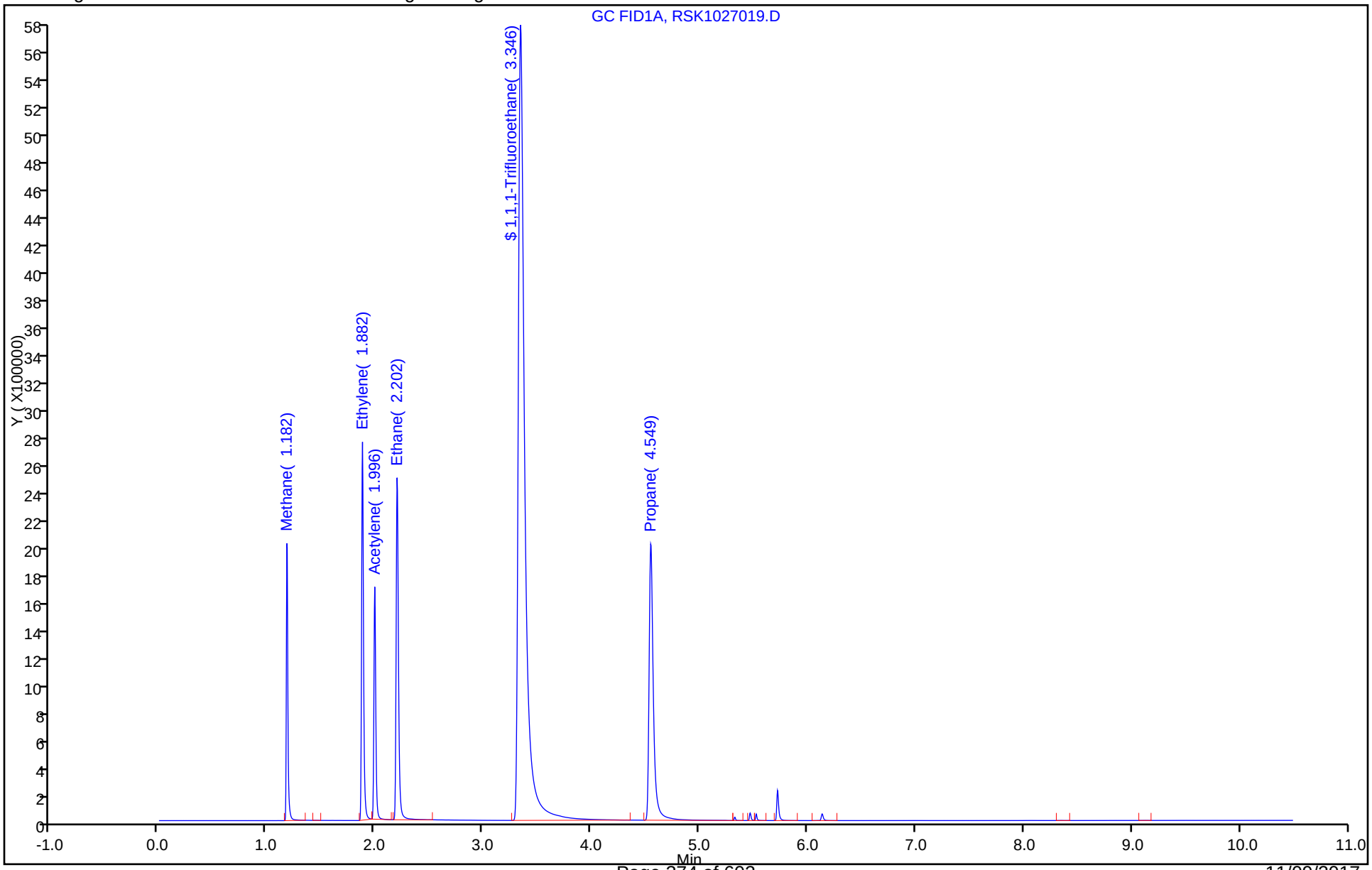
Lims ID: CCV Worklist Smp#: 19

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 19

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 500-136132-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-300908/4

Matrix: Water | Lab File ID: RSK1027004.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 23(mL) | Date Analyzed: 10/27/2017 11:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300908 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		1.0	0.17
74-84-0	Ethane	ND		1.0	0.10
74-85-1	Ethylene	ND		1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	91		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027004.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Oct-2017 11:42:31 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-004
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane	1.184	1.186	-0.002	610		0.0876	
2 Ethylene		1.886				ND	
3 Acetylene		1.999				ND	
4 Ethane		2.206				ND	
$ 5 1,1,1-Trifluoroethane	3.344	3.349	-0.005	26241439	9730.4	8895.3	
6 Propane		4.553				ND	

Reagents:

SARSKSURR_00010 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 27-Oct-2017 17:40:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027004.D

Injection Date: 27-Oct-2017 11:42:31 Instrument ID: ZPID Operator ID:

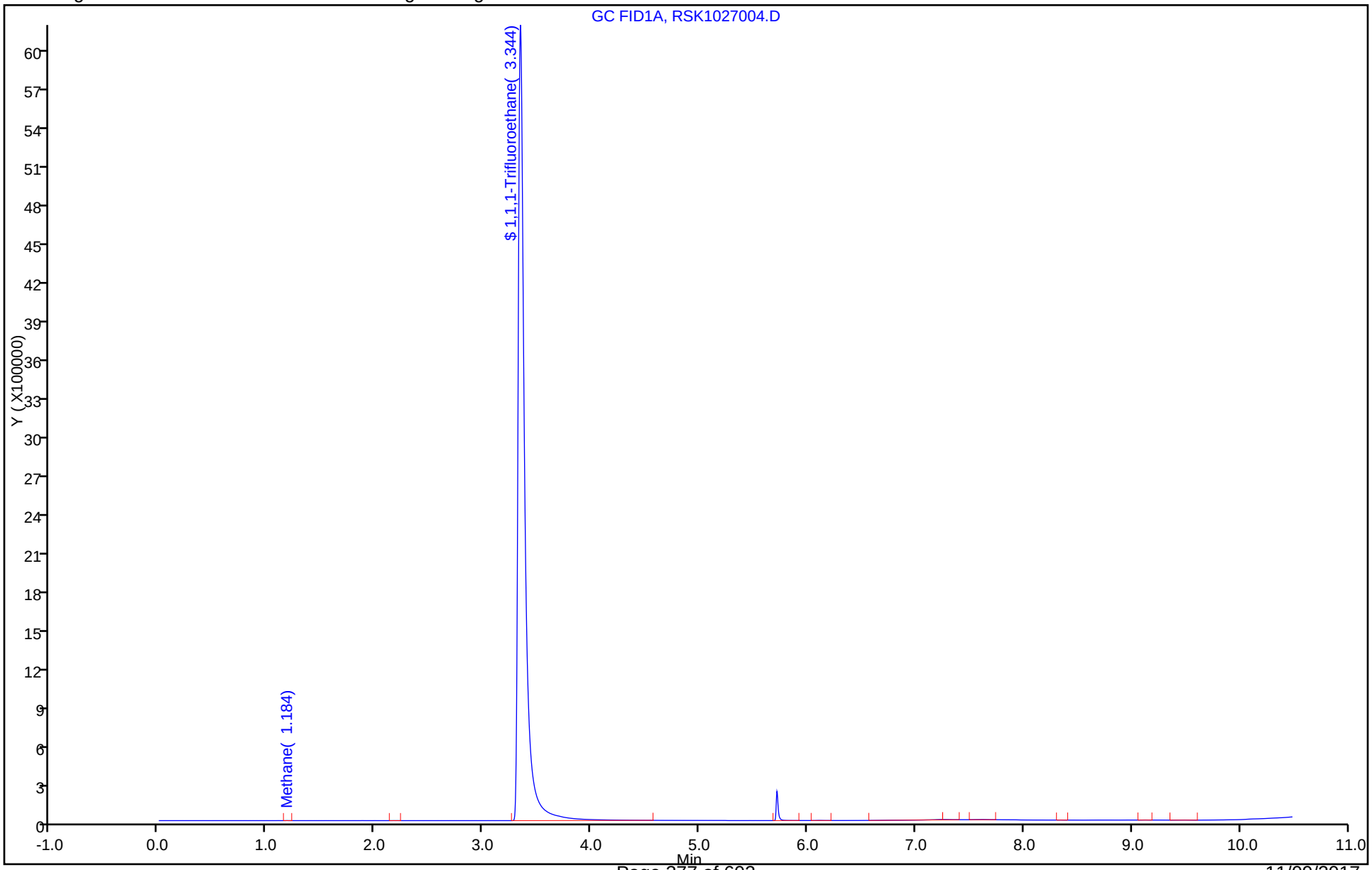
Lims ID: MB Worklist Smp#: 4

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027004.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Oct-2017 11:42:31 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-004
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9730.4	8895.3	91.42

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton
Job No.: 500-136132-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 240-300908/5
Matrix: Water
Lab File ID: RSK1027005.D
Analysis Method: RSK-175
Date Collected:
Sample wt/vol: 23(mL)
Date Analyzed: 10/27/2017 11:59
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: HP-PLOT/Q ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 300908
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	292		1.0	0.17
74-84-0	Ethane	583		1.0	0.10
74-85-1	Ethylene	542		1.0	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	90		60-140

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027005.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Oct-2017 11:59:37 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-005
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane						
1.182	1.186	-0.004	2036104	285.1	292.4	
2 Ethylene						
1.882	1.886	-0.004	3472935	500.8	542.2	
3 Acetylene						
1.995	1.999	-0.004	2053331	463.3	559.6	
4 Ethane						
2.202	2.206	-0.004	3855920	536.4	583.2	
$ 5 1,1,1-Trifluoroethane						
3.345	3.349	-0.004	24583589	9243.9	8333.4	
6 Propane						
4.549	4.553	-0.004	5823657	786.0	882.3	

Reagents:

SARSKSURR_00010 Amount Added: 19.00 Units: mL
SARSKHIGHCALP_00008 Amount Added: 1.00 Units: mL

Report Date: 27-Oct-2017 17:40:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027005.D

Injection Date: 27-Oct-2017 11:59:37 Instrument ID: ZPID Operator ID:

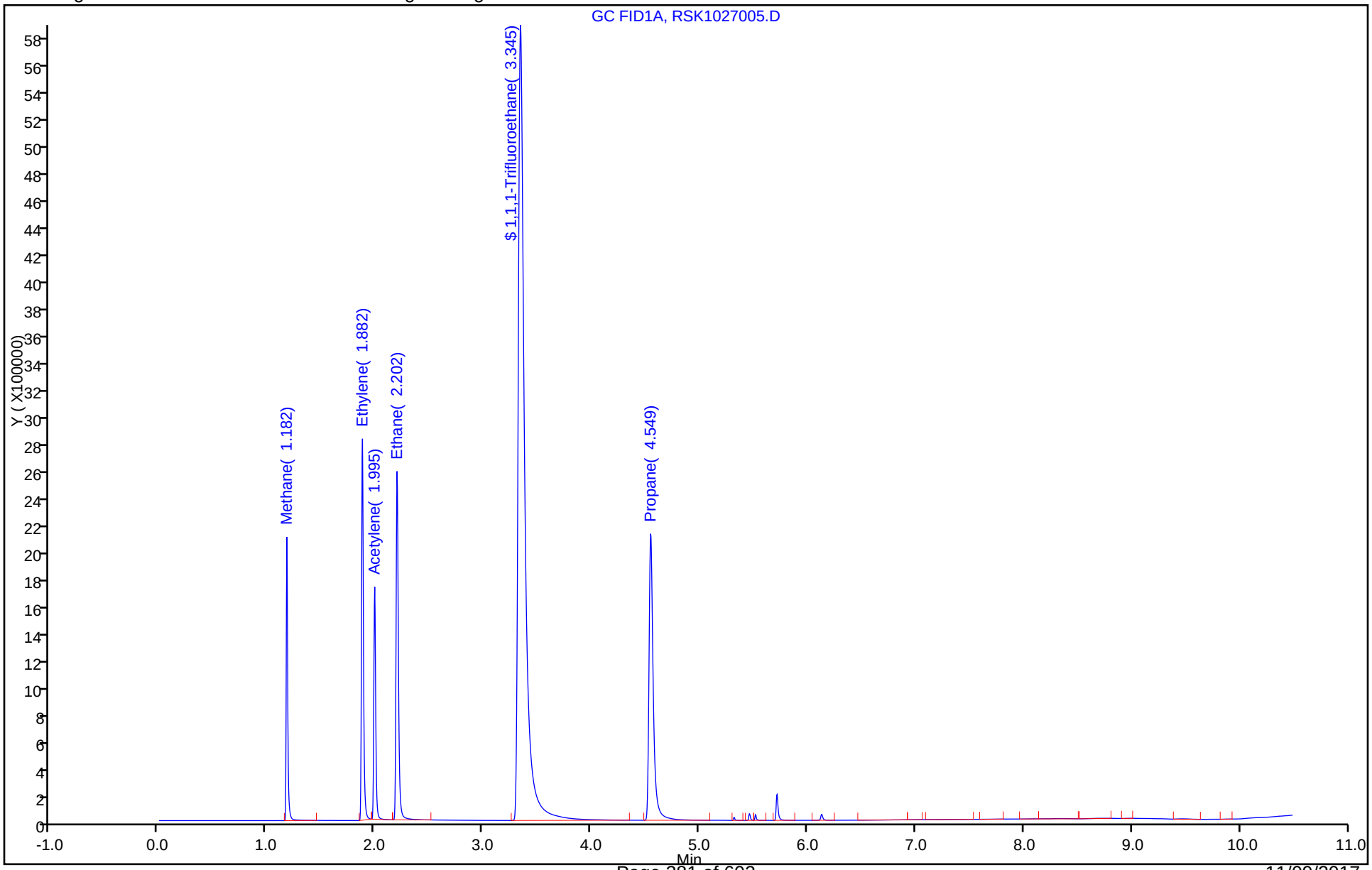
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: RSK175 Limit Group: GCV RSK 175 ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Canton
Recovery Report

Data File: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK1027005.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Oct-2017 11:59:37 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info: 240-0070099-005
Operator ID: Instrument ID: ZPID

Method: \\ChromNA\Canton\ChromData\ZPID\20171027-70099.b\RSK175.m
Limit Group: GCV RSK 175 ICAL
Last Update: 27-Oct-2017 17:40:14 Calib Date: 15-Oct-2017 14:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\ZPID\20171015-69667.b\RSK1015008.D

Column 1 : Det: GC FID1A
Process Host: XAWRK007

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,1,1-Trifluoroethane	9243.9	8333.4	90.15

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Instrument ID: ZPID Start Date: 10/15/2017 12:40

Analysis Batch Number: 299071 End Date: 10/15/2017 14:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-299071/3 IC		10/15/2017 12:40	1	RSK1015003.D	HP-PLOT/Q 0.53(mm)
STD2 240-299071/4 IC		10/15/2017 12:57	1	RSK1015004.D	HP-PLOT/Q 0.53(mm)
STD3 240-299071/5 ICRT		10/15/2017 13:14	1	RSK1015005.D	HP-PLOT/Q 0.53(mm)
STD4 240-299071/6 IC		10/15/2017 13:32	1	RSK1015006.D	HP-PLOT/Q 0.53(mm)
STD5 240-299071/7 IC		10/15/2017 13:49	1	RSK1015007.D	HP-PLOT/Q 0.53(mm)
STD6 240-299071/8 IC		10/15/2017 14:06	1	RSK1015008.D	HP-PLOT/Q 0.53(mm)
ICV 240-299071/9		10/15/2017 14:23	1	RSK1015009.D	HP-PLOT/Q 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 500-136132-1

SDG No.:

Instrument ID: ZPID Start Date: 10/27/2017 11:25

Analysis Batch Number: 300908 End Date: 10/27/2017 17:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-300908/3		10/27/2017 11:25	1	RSK1027003.D	HP-PLOT/Q 0.53(mm)
MB 240-300908/4		10/27/2017 11:42	1	RSK1027004.D	HP-PLOT/Q 0.53(mm)
LCS 240-300908/5		10/27/2017 11:59	1	RSK1027005.D	HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 12:16	5		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 12:33	5		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 12:50	5		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 13:08	5		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 13:25	5		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 13:42	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 13:59	1		HP-PLOT/Q 0.53(mm)
500-136132-1		10/27/2017 14:16	1	RSK1027013.D	HP-PLOT/Q 0.53(mm)
500-136132-2		10/27/2017 14:33	1	RSK1027014.D	HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 14:50	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 15:08	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 15:25	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 15:42	1		HP-PLOT/Q 0.53(mm)
CCV 240-300908/19		10/27/2017 15:59	1	RSK1027019.D	HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 16:16	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 16:33	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 16:51	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 17:08	1		HP-PLOT/Q 0.53(mm)
ZZZZZ		10/27/2017 17:25	1		HP-PLOT/Q 0.53(mm)
CCV 240-300908/25		10/27/2017 17:42	1		HP-PLOT/Q 0.53(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136132-1

SDG No.:

Project: Ellsworth Industrial Park

Client Sample ID	Lab Sample ID
OMW1D-GW-102317	500-136132-1
EIP-DUP-102317	500-136132-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OMW1D-GW-102317
Lab Sample ID: 500-136132-1
Lab Name: TestAmerica Chicago
Job No.: 500-136132-1
SDG ID.:
Matrix: Water
Date Sampled: 10/23/2017 12:30
Reporting Basis: WET
Date Received: 10/24/2017 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	ND	1.0	0.23	mg/L			1	SM 4500 S2 F
16887-00-6	Chloride	61	2.0	1.7	mg/L			10	9056A
14797-55-8	Nitrate as N	ND	0.20	0.068	mg/L			1	9056A
14808-79-8	Sulfate	98	2.0	0.95	mg/L		F1	10	9056A
7440-44-0	Total Organic Carbon - Duplicates	1.6	1.0	0.47	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: EIP-DUP-102317
Lab Sample ID: 500-136132-2
Lab Name: TestAmerica Chicago
Job No.: 500-136132-1
SDG ID.:
Matrix: Water
Date Sampled: 10/23/2017 12:30
Reporting Basis: WET
Date Received: 10/24/2017 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	ND	1.0	0.23	mg/L			1	SM 4500 S2 F
16887-00-6	Chloride	61	2.0	1.7	mg/L			10	9056A
14797-55-8	Nitrate as N	ND	0.20	0.068	mg/L			1	9056A
14808-79-8	Sulfate	90	4.0	1.9	mg/L			20	9056A
7440-44-0	Total Organic Carbon - Duplicates	1.6	1.0	0.47	mg/L			1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Analyst: EAT Batch Start Date: 10/24/2017

Reporting Units: mg/L Analytical Batch No.: 406966

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	21:53	Chloride	2.76	3.00	92	90-110		WSTICCL2_00016
			Nitrate as N	1.89	2.00	94	90-110		WSTICNO32_00014
			Sulfate	5.42	5.00	108	90-110		WSTICS2_00012
2	ICB	22:06	Chloride	ND					
			Nitrate as N	ND					
			Sulfate	ND					
13	CCV	00:22	Chloride	0.959	1.00	96	90-110		WSTICCL1_00016
			Nitrate as N	0.966	1.00	97	90-110		WSTICN031_00007
			Sulfate	2.59	2.50	104	90-110		WSTICS1_00010
14	CCB	00:34	Chloride	ND					
			Nitrate as N	ND					
			Sulfate	ND					
49	CCV	07:46	Chloride	0.761	1.00	76	90-110		WSTICCL1_00016
			Nitrate as N	0.711	1.00	71	90-110		WSTICN031_00007
			Sulfate	1.79	2.50	72	90-110		WSTICS1_00010
50	CCB	07:58	Chloride	ND					
			Nitrate as N	ND					
			Sulfate	ND					
57	CCV	09:25	Chloride	0.941	1.00	94	90-110		WSTICCL1_00016
			Nitrate as N	0.948	1.00	95	90-110		WSTICN031_00007
			Sulfate	2.56	2.50	102	90-110		WSTICS1_00010
58	CCB	09:37	Chloride	ND					
			Nitrate as N	ND					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Analyst: EAT Batch Start Date: 11/04/2017

Reporting Units: mg/L Analytical Batch No.: 408534

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	15:11	Sulfate	5.13	5.00	103	90-110		WSTICS2_00012
2	ICB	15:24	Sulfate	ND					
13	CCV	17:41	Sulfate	2.43	2.50	97	90-110		WSTICS1_00010
14	CCB	17:53	Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Analyst: HMW Batch Start Date: 10/26/2017

Reporting Units: mg/L Analytical Batch No.: 407343

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	ICV	22:31	Total Organic Carbon - Duplicates	19.3	20.0	96	90-110		WCSTTC2_00132
3	ICB	22:39	Total Organic Carbon - Duplicates	ND					
14	CCV	01:46	Total Organic Carbon - Duplicates	9.71	10.0	97	90-110		WCSTTC1_00122
15	CCB	01:54	Total Organic Carbon - Duplicates	ND					
25	CCV	04:44	Total Organic Carbon - Duplicates	9.40	10.0	94	90-110		WCSTTC1_00122
26	CCB	04:52	Total Organic Carbon - Duplicates	ND					
34	CCV	07:16	Total Organic Carbon - Duplicates	9.46	10.0	95	90-110		WCSTTC1_00122
35	CCB	07:24	Total Organic Carbon - Duplicates	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 406966 Date: 10/24/2017 22:18							
9056A	MB 500-406966/3	Chloride	ND		mg/L	0.20	1
9056A	MB 500-406966/3	Nitrate as N	ND		mg/L	0.20	1
9056A	MB 500-406966/3	Sulfate	ND		mg/L	0.20	1
Batch ID: 408534 Date: 11/04/2017 15:36							
9056A	MB 500-408534/3	Sulfate	ND		mg/L	0.20	1
Batch ID: 407343 Date: 10/26/2017 22:47							
9060A	MB 500-407343/4	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
9060A	MB 500-407343/4	TOC Result 1	ND		mg/L	1.0	1
9060A	MB 500-407343/4	TOC Result 2	ND		mg/L	1.0	1
Batch ID: 407023 Date: 10/26/2017 08:14							
SM 4500 S2 F	MB 500-407023/1	Sulfide	ND		mg/L	1.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 406966 Date: 10/24/2017 23:07											
9056A	500-136132-1	Nitrate as N	ND		mg/L						
9056A	500-136132-1 MS	Nitrate as N	0.952		mg/L	1.00	95	80-120			
Batch ID: 406966 Date: 10/24/2017 23:32											
9056A	500-136132-1	Chloride	61		mg/L						
9056A	500-136132-1 MS	Chloride	67.1		mg/L	10.0	61	80-120			4
9056A	500-136132-1	Sulfate	98		mg/L						F1
9056A	500-136132-1 MS	Sulfate	118		mg/L	25.0	79	80-120			F1
Batch ID: 408534 Date: 11/04/2017 17:03											
9056A	500-136132-2	Sulfate	90		mg/L						
9056A	500-136132-2 MS	Sulfate	147		mg/L	50.0	114	80-120			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 406966 Date: 10/24/2017 23:20											
9056A	500-136132-1 MSD	Nitrate as N	0.980		mg/L	1.00	98	80-120	3	15	
Batch ID: 406966 Date: 10/24/2017 23:44											
9056A	500-136132-1 MSD	Chloride	70.9		mg/L	10.0	99	80-120	5	15	4
9056A	500-136132-1 MSD	Sulfate	120		mg/L	25.0	85	80-120	1	15	
Batch ID: 408534 Date: 11/04/2017 17:16											
9056A	500-136132-2 MSD	Sulfate	146		mg/L	50.0	113	80-120	0	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 406966	Date: 10/25/2017 09:13										
						LCS Source: WSTICCL2_00016					
9056A	LCS 500-406966/56	Chloride	2.72		mg/L	3.00	91	80-120			
						LCS Source: WSTICNO32_00014					
9056A	LCS 500-406966/56	Nitrate as N	1.85		mg/L	2.00	92	80-120			
						LCS Source: WSTICS2_00012					
9056A	LCS 500-406966/56	Sulfate	5.42		mg/L	5.00	108	80-120			
Batch ID: 408534	Date: 11/04/2017 15:49										
						LCS Source: WSTICS2_00012					
9056A	LCS 500-408534/4	Sulfate	5.11		mg/L	5.00	102	80-120			
Batch ID: 407343	Date: 10/26/2017 23:04										
						LCS Source: WCSTTC2_00132					
9060A	LCS 500-407343/5	Total Organic Carbon - Duplicates	9.37		mg/L	10.0	94	80-120			
9060A	LCS 500-407343/5	TOC Result 1	9.37		mg/L	10.0	94	80-120			
9060A	LCS 500-407343/5	TOC Result 2	9.36		mg/L	10.0	94	80-120			
Batch ID: 407023	Date: 10/26/2017 08:16										
						LCS Source: WSTSF1_00070					
SM 4500 S2 F	LCS 500-407023/2	Sulfide	3.29		mg/L	3.28	100	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136132-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 4500 S2 F MDL Date: 03/29/2017 11:17

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide		1	0.231

FORM IX - IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136132-1

SDG Number:

Matrix: Water Instrument ID: IC5

Method: 9056A MDL Date: 03/29/2017 14:43

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.2	0.17
Nitrate as N		0.2	0.068
Sulfate		0.2	0.095

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136132-1

SDG Number:

Matrix: Water Instrument ID: IC5

Method: 9056A XMDL Date: 03/29/2017 14:44

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.2	0.17
Nitrate as N		0.2	0.068
Sulfate		0.2	0.095

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136132-1

SDG Number:

Matrix: Water Instrument ID: TOC3

Method: 9060A MDL Date: 03/30/2017 08:30

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Organic Carbon - Duplicates		1	0.47

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136132-1

SDG Number:

Matrix: Water Instrument ID: TOC3

Method: 9060A XMDL Date: 03/30/2017 08:31

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon - Duplicates		1	0.47

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: SM 4500 S2 F

Start Date: 10/26/2017 08:14 End Date: 10/26/2017 09:13

Lab Sample Id	D/F	Type	Time	Analytes																							
				S2																							
MB 500-407023/1	1	T	08:14	X																							
LCS 500-407023/2	1	T	08:16	X																							
ZZZZZZ			08:19																								
ZZZZZZ			08:22																								
ZZZZZZ			08:25																								
ZZZZZZ			08:28																								
ZZZZZZ			08:30																								
ZZZZZZ			08:33																								
ZZZZZZ			08:36																								
ZZZZZZ			08:39																								
ZZZZZZ			08:42																								
ZZZZZZ			08:44																								
ZZZZZZ			08:47																								
ZZZZZZ			08:50																								
500-136132-1	1	T	08:53	X																							
500-136132-2	1	T	08:56	X																							
ZZZZZZ			08:59																								
ZZZZZZ			09:01																								
ZZZZZZ			09:04																								
ZZZZZZ			09:07																								
ZZZZZZ			09:10																								
ZZZZZZ			09:13																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: IC5 Analysis Method: 9056A

Start Date: 10/24/2017 21:53 End Date: 10/25/2017 09:37

Lab Sample Id	D/F	Type	Time	Analytes																							
				CL-	NO3	SO4																					
ICV 500-406966/1	1		21:53	X	X	X																					
ICB 500-406966/2	1		22:06	X	X	X																					
MB 500-406966/3	1	T	22:18	X	X	X																					
ZZZZZZ			22:30																								
500-136132-1	1	T	22:43		X																						
500-136132-1	10	T	22:55	X		X																					
500-136132-1 MS	1	T	23:07		X																						
500-136132-1 MSD	1	T	23:20		X																						
500-136132-1 MS	10	T	23:32	X		X																					
500-136132-1 MSD	10	T	23:44	X		X																					
500-136132-2	1	T	23:57		X																						
500-136132-2	10	T	00:09	X																							
CCV 500-406966/13	1		00:22	X	X	X																					
CCB 500-406966/14	1		00:34	X	X	X																					
ZZZZZZ			00:46																								
ZZZZZZ			00:59																								
ZZZZZZ			01:11																								
ZZZZZZ			01:23																								
ZZZZZZ			01:36																								
ZZZZZZ			01:48																								
ZZZZZZ			02:00																								
ZZZZZZ			02:13																								
ZZZZZZ			02:25																								
ZZZZZZ			02:37																								
CCV 500-406966/25			02:50																								
CCB 500-406966/26			03:02																								
ZZZZZZ			03:14																								
ZZZZZZ			03:27																								
ZZZZZZ			03:39																								
ZZZZZZ			03:51																								
ZZZZZZ			04:04																								
ZZZZZZ			04:16																								
ZZZZZZ			04:28																								
ZZZZZZ			04:41																								
ZZZZZZ			04:53																								
ZZZZZZ			05:05																								
CCV 500-406966/37			05:18																								
CCB 500-406966/38			05:30																								
ZZZZZZ			05:42																								
ZZZZZZ			05:55																								
ZZZZZZ			06:07																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: IC5 Analysis Method: 9056A

Start Date: 10/24/2017 21:53 End Date: 10/25/2017 09:37

Lab Sample Id	D/F	Type	Time	Analytes																								
				CL-	NO3	SO4																						
ZZZZZZ			06:19																									
ZZZZZZ			06:32																									
ZZZZZZ			06:44																									
ZZZZZZ			06:56																									
ZZZZZZ			07:09																									
ZZZZZZ			07:21																									
ZZZZZZ			07:33																									
CCV 500-406966/49	1		07:46	X	X	X																						
CCB 500-406966/50	1		07:58	X	X	X																						
ZZZZZZ			08:10																									
ZZZZZZ			08:23																									
ZZZZZZ			08:35																									
ZZZZZZ			08:47																									
ZZZZZZ			09:00																									
LCS 500-406966/56	1	T	09:13	X	X	X																						
CCV 500-406966/57	1		09:25	X	X	X																						
CCB 500-406966/58	1		09:37	X	X	X																						

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: IC5 Analysis Method: 9056A

Start Date: 11/04/2017 15:11 End Date: 11/05/2017 00:16

Lab Sample Id	D/F	Type	Time	Analytes																							
				SO4																							
ICV 500-408534/1	1		15:11	X																							
ICB 500-408534/2	1		15:24	X																							
MB 500-408534/3	1	T	15:36	X																							
LCS 500-408534/4	1	T	15:49	X																							
ZZZZZZ			16:01																								
ZZZZZZ			16:14																								
ZZZZZZ			16:26																								
ZZZZZZ			16:39																								
500-136132-2	20	T	16:51	X																							
500-136132-2 MS	20	T	17:03	X																							
500-136132-2 MSD	20	T	17:16	X																							
ZZZZZZ			17:28																								
CCV 500-408534/13	1		17:41	X																							
CCB 500-408534/14	1		17:53	X																							
ZZZZZZ			18:05																								
ZZZZZZ			18:18																								
ZZZZZZ			18:30																								
ZZZZZZ			18:42																								
ZZZZZZ			18:55																								
ZZZZZZ			19:07																								
ZZZZZZ			19:19																								
ZZZZZZ			19:32																								
ZZZZZZ			19:44																								
ZZZZZZ			19:56																								
CCV 500-408534/25			20:09																								
CCB 500-408534/26			20:21																								
ZZZZZZ			20:34																								
ZZZZZZ			20:46																								
ZZZZZZ			20:58																								
ZZZZZZ			21:11																								
ZZZZZZ			21:23																								
ZZZZZZ			21:35																								
ZZZZZZ			21:48																								
ZZZZZZ			22:00																								
ZZZZZZ			22:12																								
ZZZZZZ			22:25																								
CCV 500-408534/37			22:37																								
CCB 500-408534/38			22:49																								
ZZZZZZ			23:02																								
ZZZZZZ			23:14																								
ZZZZZZ			23:26																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: IC5 Analysis Method: 9056A

Start Date: 11/04/2017 15:11 End Date: 11/05/2017 00:16

Lab Sample Id	D/F	Type	Time	Analytes																							
				SO4																							
ZZZZZZ			23:39																								
ZZZZZZ			23:51																								
CCV 500-408534/44			00:03																								
CCB 500-408534/45			00:16																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: TOC3 Analysis Method: 9060A

Start Date: 10/26/2017 22:20 End Date: 10/27/2017 13:30

Lab Sample Id	D/F	Type	Time	Analytes																							
				TOC1	TOC2	TOCD																					
ZZZZZZ			22:20																								
ICV 500-407343/2	1		22:31	X	X	X																					
ICB 500-407343/3	1		22:39			X																					
MB 500-407343/4	1	T	22:47			X																					
LCS 500-407343/5	1	T	23:04	X	X	X																					
ZZZZZZ			23:23																								
ZZZZZZ			23:44																								
ZZZZZZ			00:04																								
ZZZZZZ			00:24																								
ZZZZZZ			00:45																								
ZZZZZZ			01:05																								
ZZZZZZ			01:25																								
ZZZZZZ			01:36																								
CCV 500-407343/14	1		01:46	X	X	X																					
CCB 500-407343/15	1		01:54			X																					
ZZZZZZ			02:04																								
ZZZZZZ			02:25																								
ZZZZZZ			02:45																								
ZZZZZZ			03:05																								
ZZZZZZ			03:26																								
ZZZZZZ			03:46																								
ZZZZZZ			04:05																								
ZZZZZZ			04:25																								
ZZZZZZ			04:34																								
CCV 500-407343/25	1		04:44	X	X	X																					
CCB 500-407343/26	1		04:52			X																					
500-136132-1	1	T	05:01			X																					
500-136132-2	1	T	05:20			X																					
ZZZZZZ			05:39																								
ZZZZZZ			05:57																								
ZZZZZZ			06:16																								
ZZZZZZ			06:36																								
ZZZZZZ			06:56																								
CCV 500-407343/34	1		07:16	X	X	X																					
CCB 500-407343/35	1		07:24			X																					
ZZZZZZ			07:33																								
ZZZZZZ			07:51																								
ZZZZZZ			08:09																								
ZZZZZZ			08:27																								
ZZZZZZ			08:46																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Instrument ID: TOC3 Analysis Method: 9060A

Start Date: 10/26/2017 22:20 End Date: 10/27/2017 13:30

Lab Sample Id	D/F	Type	Time	Analytes																								
				TOC1	TOC2	TOCD																						
ZZZZZZ			09:05																									
ZZZZZZ			09:15																									
ZZZZZZ			09:24																									
ZZZZZZ			09:43																									
ZZZZZZ			10:01																									
CCV 500-407343/46			10:20																									
CCB 500-407343/47			10:28																									
ZZZZZZ			10:38																									
ZZZZZZ			10:55																									
ZZZZZZ			11:12																									
ZZZZZZ			11:30																									
ZZZZZZ			11:49																									
ZZZZZZ			12:09																									
ZZZZZZ			12:27																									
ZZZZZZ			12:44																									
ZZZZZZ			13:02																									
ZZZZZZ			13:12																									
CCV 500-407343/58			13:21																									
CCB 500-407343/59			13:30																									

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Batch Number: 407023 Batch Start Date: 10/26/17 08:14 Batch Analyst: Boyd, Cheryl L

Batch Method: SM 4500 S2 F Batch End Date: 10/26/17 09:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	IodineAmount	TitrantVolume1	InitialAmount	FinalAmount	CalcMsg	WSTSF1 00070
MB 500-407023/1		SM 4500 S2 F		5 mL	4.99 mL	250 mL	250 mL	OK	
LCS 500-407023/2		SM 4500 S2 F		5 mL	2.98 mL	250 mL	250 mL	OK	5 mL
500-136132-M-1	OMW1D-GW-102317	SM 4500 S2 F	T	5 mL	5.31 mL	250 mL	250 mL	OK	
500-136132-M-2	EIP-DUP-102317	SM 4500 S2 F	T	5 mL	5.08 mL	250 mL	250 mL	OK	

Batch Notes	
First End time	09:16
Filter ID	WHATMANGLASSFIBERFILTER
Hydrochloric Acid ID	6NHCL00032
Iodine Lot Number	0.25NIODINE00050
Iodine Vendor	EMD
Normality of Iodine Solution	0.0253 N
Sodium Thiosulfate ID	0.025NA2S2O300040
Sodium Thiosulfate Vendor	JTBAKER
Sodium Thiosulfate Dispenser ID	C-3030
Nominal Amount Used	250 mL
Perform Calculation (0=No, 1=Yes)	1
Starch Lot Number	STARCHIND00020
First Start time	08:14
Normality of First Titrant	0.0252 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Batch Number: 406966 Batch Start Date: 10/24/17 21:53 Batch Analyst: Treadwell, Eliane A

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WSTICCL1 00016	WSTICCL2 00016	WSTICN031 00007	WSTICNO32 00014
ICV 500-406966/1		9056A		100 mL	100 mL		300 uL		200 uL
500-136132-L-1 MS	OMW1D-GW-102317	9056A	T	100 mL	100 mL		100 uL		100 uL
500-136132-L-1 MSD	OMW1D-GW-102317	9056A	T	100 mL	100 mL		100 uL		100 uL
500-136132-L-1 MS	OMW1D-GW-102317	9056A	T	100 mL	100 mL		100 uL		100 uL
500-136132-L-1 MSD	OMW1D-GW-102317	9056A	T	100 mL	100 mL		100 uL		100 uL
CCV 500-406966/13		9056A		100 mL	100 mL	100 uL		100 uL	
CCV 500-406966/49		9056A		100 mL	100 mL	100 uL		100 uL	
LCS 500-406966/56		9056A		100 mL	100 mL		300 uL		200 uL
CCV 500-406966/57		9056A		100 mL	100 mL	100 uL		100 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTICS1 00010	WSTICS2 00012				
ICV 500-406966/1		9056A			500 uL				
500-136132-L-1 MS	OMW1D-GW-102317	9056A	T		250 uL				
500-136132-L-1 MSD	OMW1D-GW-102317	9056A	T		250 uL				
500-136132-L-1 MS	OMW1D-GW-102317	9056A	T		250 uL				
500-136132-L-1 MSD	OMW1D-GW-102317	9056A	T		250 uL				
CCV 500-406966/13		9056A		250 uL					
CCV 500-406966/49		9056A		250 uL					
LCS 500-406966/56		9056A			500 uL				
CCV 500-406966/57		9056A		250 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Batch Number: 406966 Batch Start Date: 10/24/17 21:53 Batch Analyst: Treadwell, Eliane A

Batch Method: 9056A Batch End Date:

Batch Notes	
Batch Comment	AG14A-5UM/AS14A-5UM
Eluent 1 ID	ELUENTCONC00023
Filter ID	WHATMAN-9843107-0.45

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Batch Number: 408534 Batch Start Date: 11/04/17 15:11 Batch Analyst: Treadwell, Eliane A

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WSTICCL1 00017	WSTICCL2 00016	WSTICS1 00010	WSTICS2 00012
ICV 500-408534/1		9056A		100 mL	100 mL		300 uL		500 uL
LCS 500-408534/4		9056A		100 mL	100 mL		300 uL		500 uL
500-136132-L-2 MS	EIP-DUP-102317	9056A	T	100 mL	100 mL				250 uL
500-136132-L-2 MSD	EIP-DUP-102317	9056A	T	100 mL	100 mL				250 uL
CCV 500-408534/13		9056A		100 mL	100 mL	100 uL		250 uL	

Batch Notes	
Batch Comment	AG14A-5UM/AS14A-5UM
Eluent 1 ID	ELUENTCONC00023
Filter ID	WHATMAN-9814904-0.45

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136132-1

SDG No.:

Batch Number: 407343 Batch Start Date: 10/26/17 22:20 Batch Analyst: Wontor, Heather M

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	WCSTTC1 00122	WCSTTC2 00132
ICV 500-407343/2		9060A		200 mL	200 mL	0 %	TOC Pass		2000 uL
ICB 500-407343/3		9060A				0 %	TOC Pass		
MB 500-407343/4		9060A				0 %	TOC Pass		
LCS 500-407343/5		9060A		200 mL	200 mL	0 %	TOC Pass		1000 uL
CCV 500-407343/14		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB 500-407343/15		9060A				0 %	TOC Pass		
CCV 500-407343/25		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB 500-407343/26		9060A				0 %	TOC Pass		
500-136132-K-1	OMW1D-GW-102317	9060A	T			1 %	TOC Pass		
500-136132-J-2	EIP-DUP-102317	9060A	T			0 %	TOC Pass		
CCV 500-407343/34		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB 500-407343/35		9060A				0 %	TOC Pass		

Batch Notes	
First End time	See End Date/Time
Phosphoric Acid ID	21% H3PO4_00059
Sodium Persulfate ID	Na_Persulfate_00096
First Start time	See Start Date/Time

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica Chicago

CHI-22-12-084/Y-09/15

Cover Page - Ion Chromatograph

LIMS Batch: 406966 **FILE ID:** 10-29-2017A.csv

Calibration Date: 9-27-17

Instrument: (Circle)	
a. IC5: Dionex Series ICS-1100	SevenAnions
b. IC8: Dionex Series ICS-1100	SevenAnions

Standard Traceability

Note: Working Standards are prepared daily from the noted Stock Solutions.

Test	Calibration Curve CCV Stock ID	LCS / MS ICV Stock ID	LCS mg/L	ICV / CCV mg/L	MS mg/L
Fluoride	WSTICF1-	WSTICF2-	1.0	1.0 / 0.6	0.6
Chloride	WSTICCL1-16	WSTICCL2-14	3.0	3.0 / 1.0	1.0
Nitrite-N	WSTICNI1-	WSTICNO2II-	2.0	2.0 / 1.0	1.0
Bromide	WSTICBR1-	WSTICBR2-	2.0	2.0 / 1.0	1.0
Nitrate-N	WSTICNO31-7	WSTICNO32-14	2.0	2.0 / 1.0	1.0
O-PO4	WSTICP1-	WSTICP2-	2.0	2.0 / 1.0	1.0
Sulfate	WSTICS1- 10	WSTICS2-12	5.0	5.0 / 2.5	2.5

Test	Range of Curve (mg/L)
Fluoride	0.20 - 2.0
Chloride	0.20 - 7.5
Nitrite-N	0.20 - 5.0
Bromide	0.20 - 5.0
Nitrate-N	0.20 - 4.0
O-PO4	0.20 - 4.0
Sulfate	0.20 - 10.0

IC Data Qualifiers used by the analyst in the raw data evaluation.

CE = Co-Elution or masking of peak(s) has been identified

OR = Over Range - Peak exceeds the highest standard of the calibration curve

OD = Over Dilution - The ion is reported from a less dilute injection

NR = Not Required - analysis was not required for this ion

AD = Analyst Discretion was used in the evaluation and the reporting of the ion

RE = Reported Elsewhere

RT = Retention Time Shift

MI = Manual Integration (baseline)

Analyst Signature: _____ Date: 10-26-17

Reviewer Signature: _____ Date: 10/26/17

TestAmerica Chicago

Retention Time Window Summary Table

Instrument:	IC5: ICS 1100	Method: SevenAnions
Batch:	406966	
Date:	10/26/2017	

Analyst:	Eliane Treadwell

Parameter	ICV RT	RT Window	
	Minutes	+/- 2 %	
Fluoride		0.00	0.00
Chloride	3.47	3.40	3.54
Nitrite		0.00	0.00
Bromide		0.00	0.00
Nitrate	5.47	5.36	5.58
Orthophosphate		0.00	0.00
Sulfate	8.06	7.90	8.22

Analyst Signature: Eliane Treadwell Date: 10-26-17

CHI-22-12-130/D-10/17

406966

Sequence Overview

Sequence Details

Name:	**10-24-2017A**	*Created On:*	**10/Apr/12 15:30:04**
Directory:	**Instrument Data\CHI-WC-IC5_1\Instrument**	*Created By:*	**moorec**
Data Vault:	**ChromeleonLocal**	*Updated On:*	**25/Oct/17 15:55:04**
No. of Injections:	**58**	*Updated By:*	**CHIINSTIC5**

Injection Details

No.	Injection Name	Position	Type	Level	Inject Time	Comment
1	ICV	RA1	Check Standard	04	24/Oct/17 21:53:40	IC Stock II
2	ICB	RA2	Unknown		24/Oct/17 22:06:01	
3	MB	RA3	Unknown		24/Oct/17 22:18:35	
4	/LCS	RA4	Check Standard	04	24/Oct/17 22:30:54	IC Stock II
5	500-136132-L-1	GA1	Unknown		24/Oct/17 22:43:19	CL, NO3, SO4
6	500-136132-L-1	GA2	Unknown		24/Oct/17 22:55:39	CL, NO3, SO4
7	500-136132-L-1 MS	GA3	Spiked	03	24/Oct/17 23:07:59	CL, NO3, SO4
8	500-136132-L-1 MSD	GA4	Spiked	03	24/Oct/17 23:20:19	CL, NO3, SO4
9	500-136132-L-1 MS	GA5	Spiked	03	24/Oct/17 23:32:39	CL, NO3, SO4
10	500-136132-L-1 MSD	GA6	Spiked	03	24/Oct/17 23:44:59	CL, NO3, SO4
11	500-136132-L-2	GA7	Unknown		24/Oct/17 23:57:19	CL, NO3, SO4
12	500-136132-L-2	GA8	Unknown		25/Oct/17 00:09:40	CL, NO3, SO4
13	CCV	RA5	Check Standard	03	25/Oct/17 00:22:01	IC Stock I
14	CCB	RA6	Unknown		25/Oct/17 00:34:22	
15	500-135323-H-1	GB1	Unknown		25/Oct/17 00:46:43	CL, SO4
16	500-135323-H-1	GB2	Unknown		25/Oct/17 00:59:02	CL, SO4
17	500-135323-H-2	GB3	Unknown		25/Oct/17 01:11:23	CL, SO4
18	500-135323-H-2	GB4	Unknown		25/Oct/17 01:23:43	CL, SO4
19	500-135323-H-3	GB5	Unknown		25/Oct/17 01:36:03	CL, SO4
20	500-135323-H-3	GB6	Unknown		25/Oct/17 01:48:22	CL, SO4
21	500-135323-H-4	GB7	Unknown		25/Oct/17 02:00:42	CL, SO4
22	500-135323-H-4	GB8	Unknown		25/Oct/17 02:13:02	CL, SO4
23	500-135323-H-5	GC1	Unknown		25/Oct/17 02:25:37	CL, SO4
24	500-135323-H-5	GC2	Unknown		25/Oct/17 02:37:57	CL, SO4
25	CCV	RA7	Check Standard	03	25/Oct/17 02:50:18	IC Stock I
26	CCB	RA8	Unknown		25/Oct/17 03:02:38	
27	500-135323-H-6	GC3	Unknown		25/Oct/17 03:14:58	CL, SO4
28	500-135323-H-6	GC4	Unknown		25/Oct/17 03:27:18	CL, SO4
29	500-135323-H-7	GC5	Unknown		25/Oct/17 03:39:38	CL, SO4
30	500-135323-H-7	GC6	Unknown		25/Oct/17 03:51:58	CL, SO4
31	500-135323-H-8	GC7	Unknown		25/Oct/17 04:04:18	CL, SO4
32	500-135323-H-8	GC8	Unknown		25/Oct/17 04:16:37	CL, SO4
33	500-135323-H-9	GD1	Unknown		25/Oct/17 04:28:57	CL, SO4
34	500-135323-H-9	GD2	Unknown		25/Oct/17 04:41:17	CL, SO4
35	500-135323-H-10	GD3	Unknown		25/Oct/17 04:53:36	CL, SO4
36	500-135323-H-10	GD4	Unknown		25/Oct/17 05:05:57	CL, SO4
37	CCV	RA5	Check Standard	03	25/Oct/17 05:18:18	IC Stock I
38	CCB	RA6	Unknown		25/Oct/17 05:30:38	
39	500-135323-H-11	GD5	Unknown		25/Oct/17 05:42:58	CL, SO4
40	500-135323-H-11	GD6	Unknown		25/Oct/17 05:55:19	CL, SO4
41	500-135323-H-12	GD7	Unknown		25/Oct/17 06:07:38	CL, SO4
42	500-135323-H-12	GD8	Unknown		25/Oct/17 06:19:58	CL, SO4

4 08 6 6 e

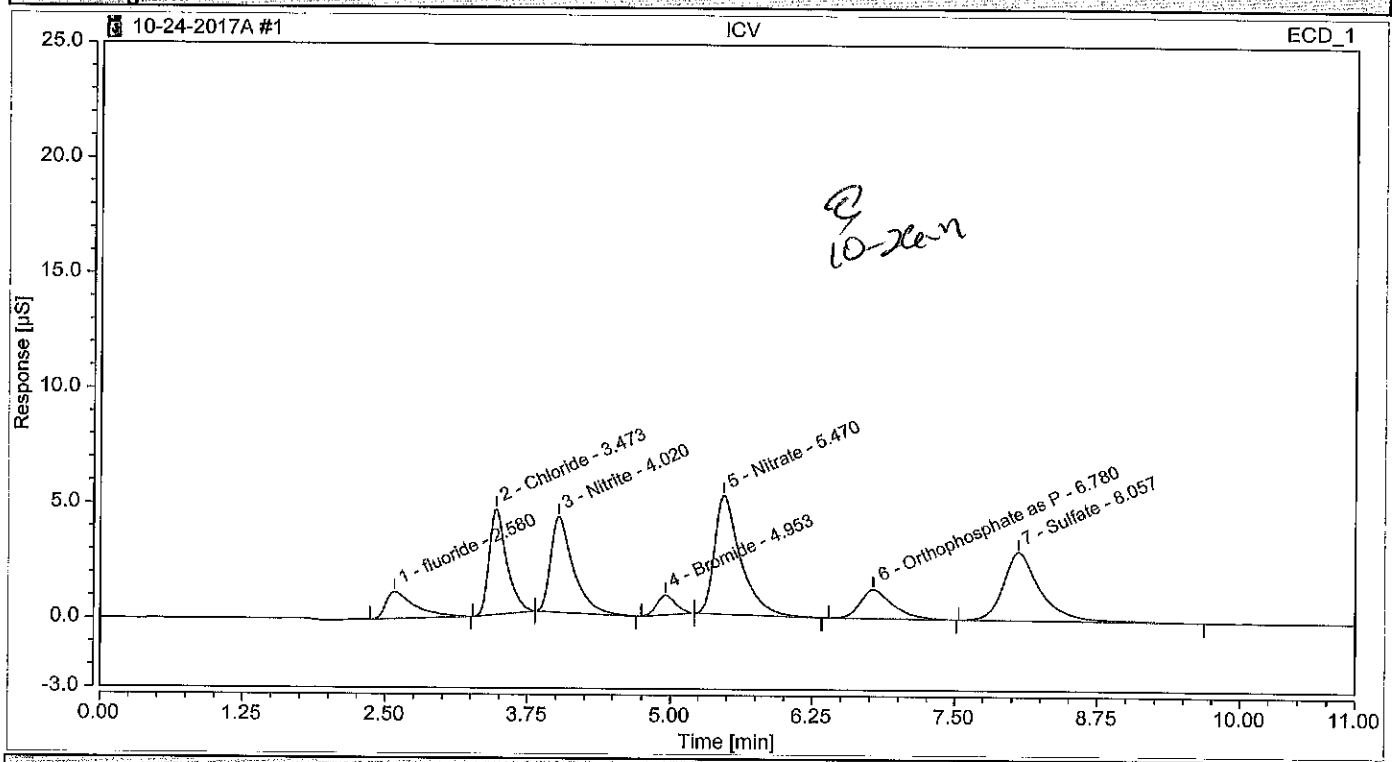
43	500-135417-H-1	GE1	Unknown		25/Oct/17 06:32:18	CL, SO4
44	500-135417-H-1 MS	GE2	Spiked	03	25/Oct/17 06:44:38	CL, SO4
45	500-135417-H-1 MSD	GE3	Spiked	03	25/Oct/17 06:56:57	CL, SO4
46	500-135417-H-2	GE4	Unknown		25/Oct/17 07:09:17	CL, SO4
47	500-135417-H-3	GE5	Unknown		25/Oct/17 07:21:36	CL, SO4
48	500-135417-H-4	GE6	Unknown		25/Oct/17 07:33:56	CL, SO4
49	CCV	RA7	Check Standard	03	25/Oct/17 07:46:18	IC Stock I
50	CCB	RA8	Unknown		25/Oct/17 07:58:39	
51	500-135417-H-4	GE7	Unknown		25/Oct/17 08:10:59	CL, SO4
52	500-135417-H-5	GE8	Unknown		25/Oct/17 08:23:18	CL, SO4
53	500-135417-H-5	BE2	Unknown		25/Oct/17 08:35:39	CL, SO4
54	500-135419-E-1	BE3	Unknown		25/Oct/17 08:47:59	CL, SO4
55	500-135419-E-1	BE4	Unknown		25/Oct/17 09:00:37	CL, SO4
56	LCS	RA1	Check Standard	04	25/Oct/17 09:13:02	IC Stock II
57	CCV	RA5	Check Standard	03	25/Oct/17 09:25:23	IC Stock I
58	CCB	RA6	Unknown		25/Oct/17 09:37:47	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**11.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Oct/17 21:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

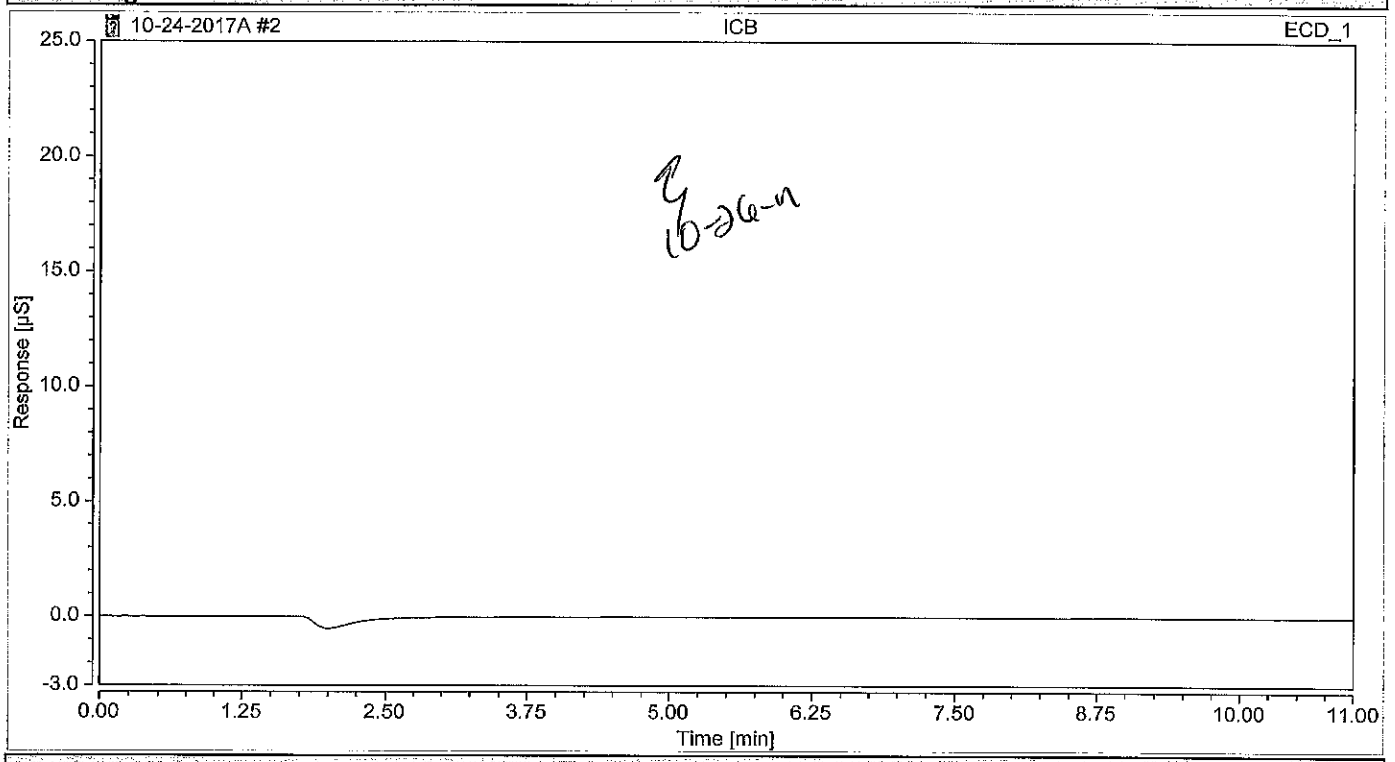
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.580	0.34288	1.167	6.57	5.80	1.1419
2	Chloride	3.473	0.81262	4.574	15.56	22.71	2.7553
3	Nitrite	4.020	0.97070	4.159	18.59	20.65	1.8667
4	Bromide	4.953	0.16631	0.854	3.19	4.24	1.4800
5	Nitrate	5.470	1.37521	5.153	26.34	25.58	1.8860
6	Orthophosphate as P	6.780	0.42163	1.265	8.08	6.28	2.2483
7	Sulfate	8.057	1.13202	2.973	21.68	14.76	5.4229
Total:			**5.221**	**20.145**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**11.00**
Vial Number:	**RA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Oct/17 22:06**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

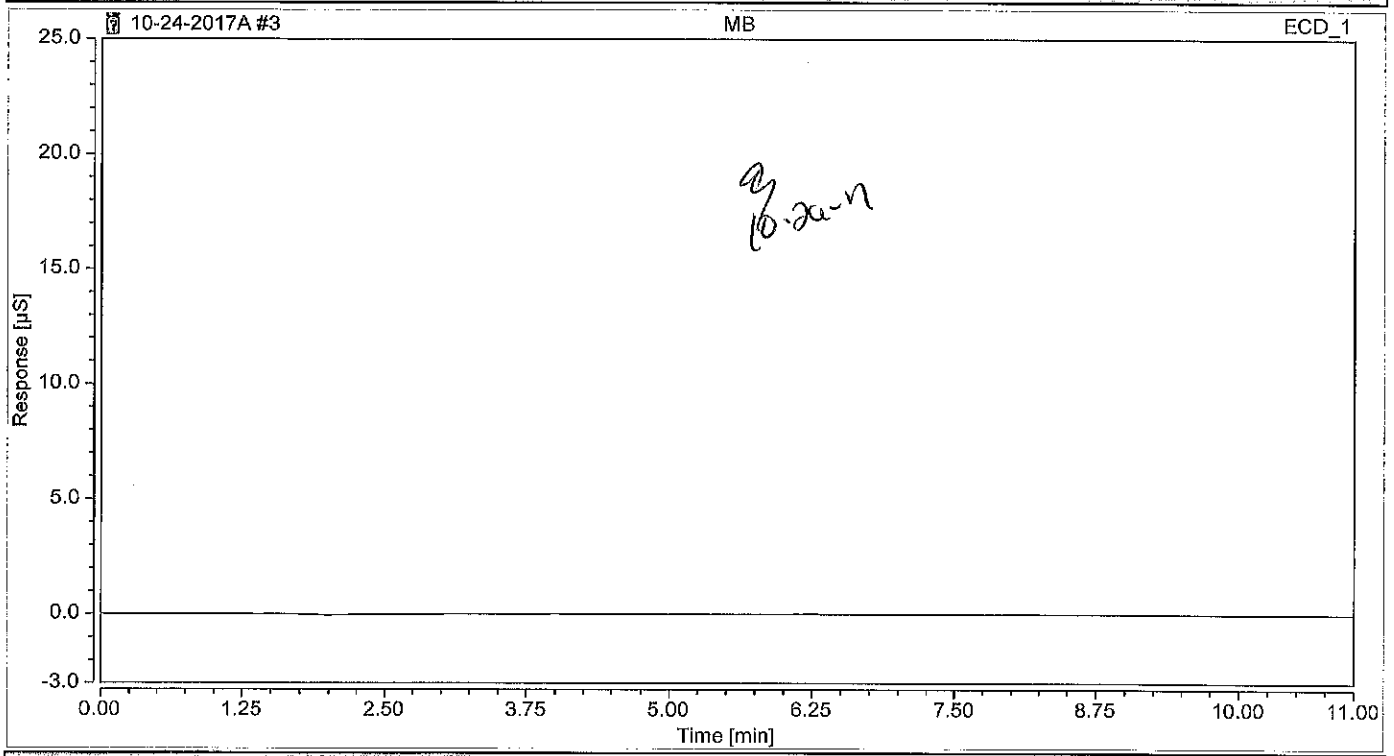
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**11.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Oct/17 22:18**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

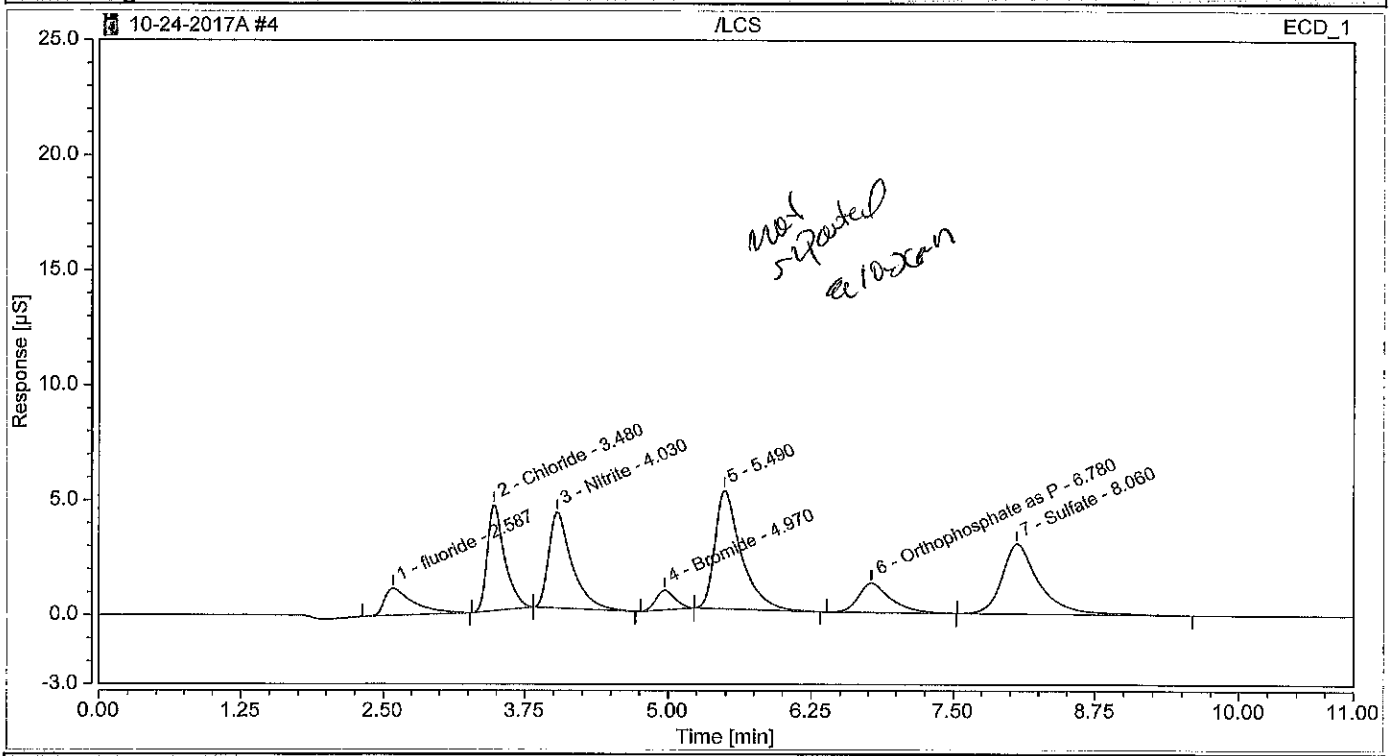
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

Chromatogram and Results

Injection Details

Injection Name:	/LCS	*Run Time (min):*	**11.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Oct/17 22:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

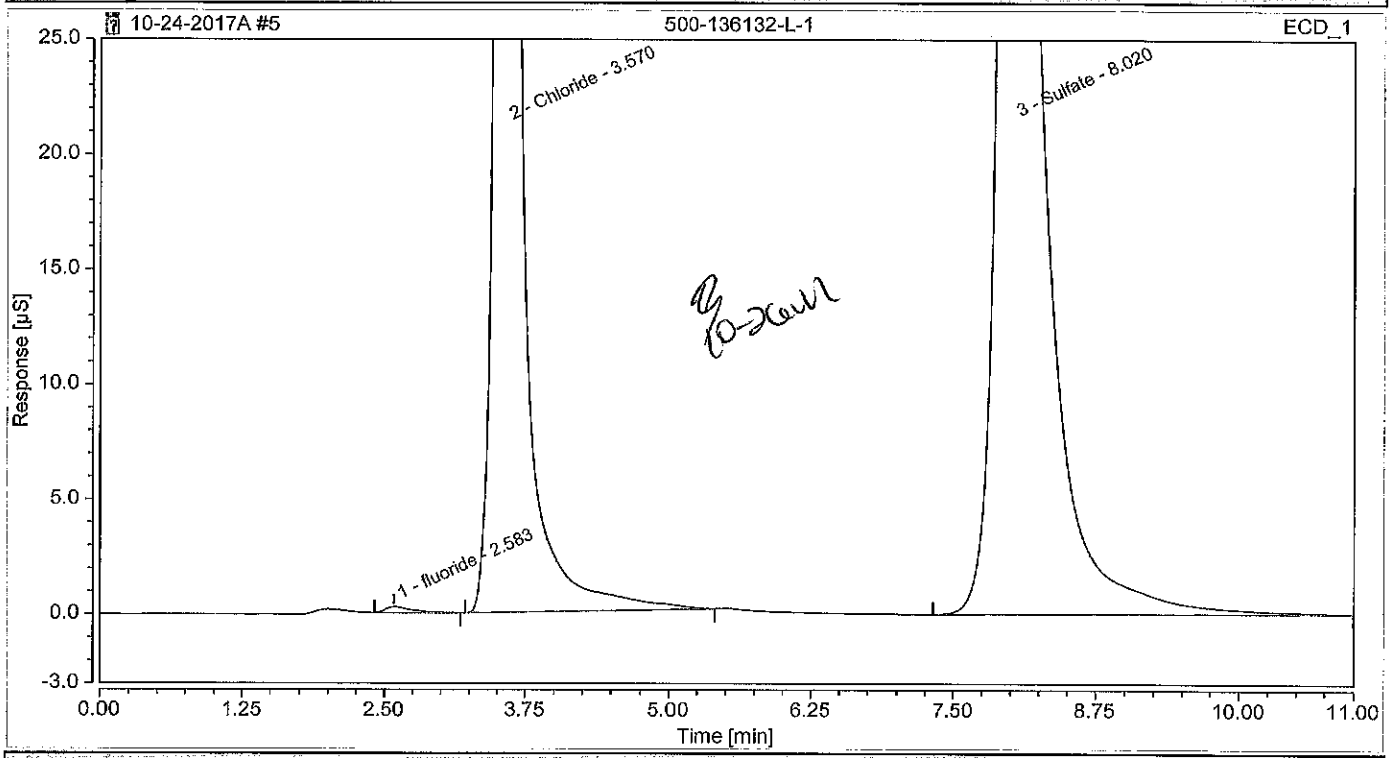
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.587	0.35192	1.179	6.68	5.81	1.1720
2	Chloride	3.480	0.81443	4.599	15.46	22.67	2.7612
3	Nitrite	4.030	0.97589	4.181	18.52	20.61	1.8760
4	Bromide	4.970	0.16579	0.851	3.15	4.20	1.4754
5		5.490	1.37496	5.150	26.10	25.38	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Orthophosphate as P	6.780	0.42898	1.282	8.14	6.32	2.2855
7	Sulfate	8.060	1.15700	3.046	21.96	15.01	5.5418
Total:			**5.269**	**20.287**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-1**	*Run Time (min):*	**11.00**
Vial Number:	**GA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Oct/17 22:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

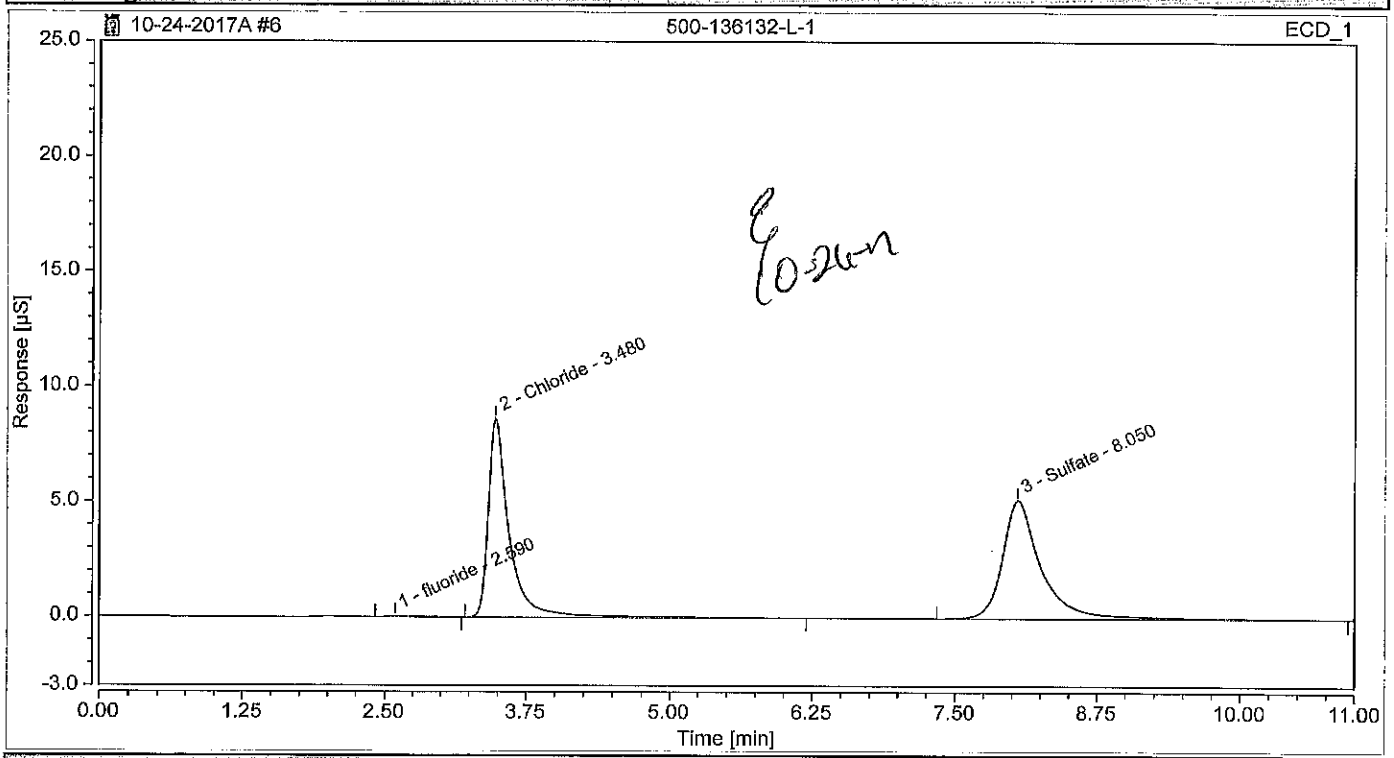
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.583	0.07414	0.262	0.14	0.12	0.2471
2	Chloride	3.570	25.31130	143.164	48.70	66.76	82.6781
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.020	26.58605	71.034	51.16	33.12	126.5112
Total:			**51.971**	**214.460**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-1**	*Run Time (min):*	**11.00**
Vial Number:	**GA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**24/Oct/17 22:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

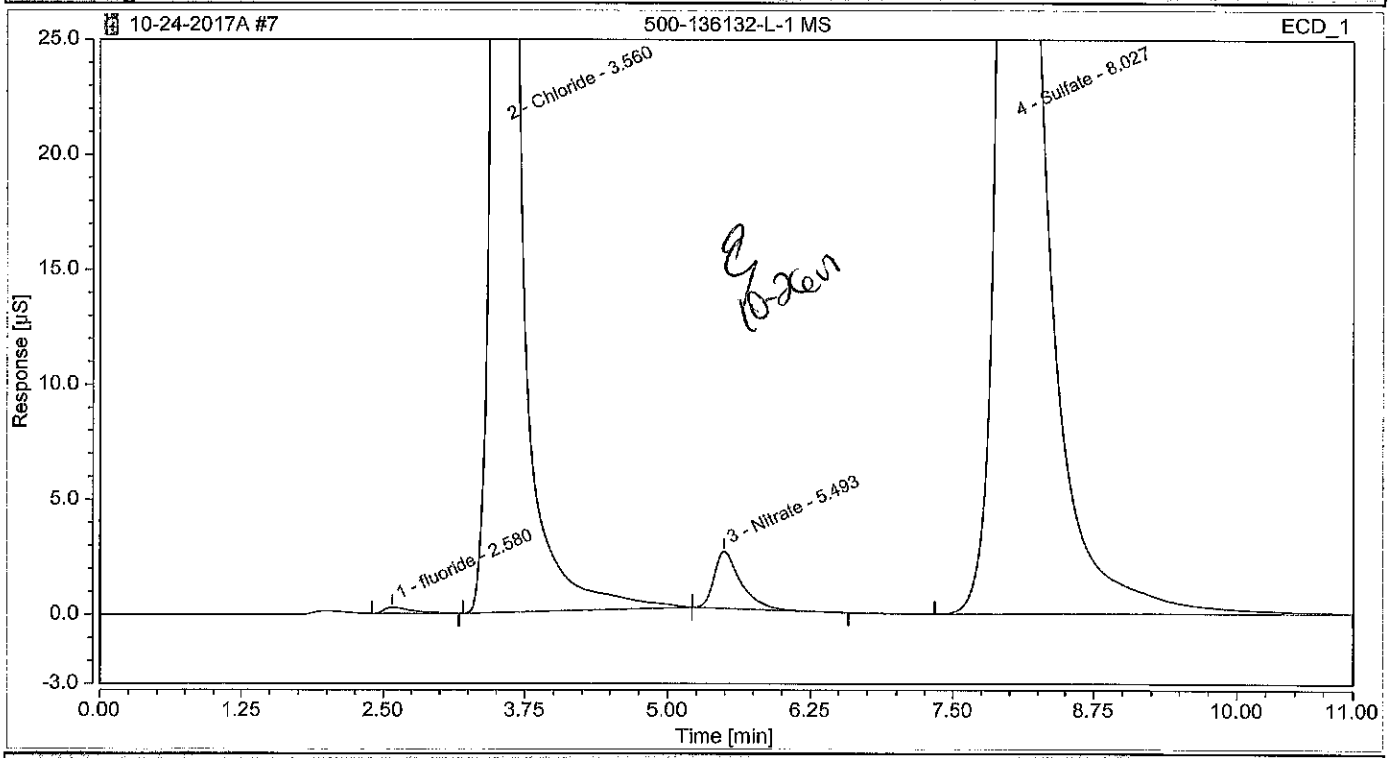
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.590	0.01211	0.029	0.31	0.21	0.4058
2	Chloride	3.480	1.83894	8.632	47.00	62.52	61.0345
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.050	2.06175	5.145	52.69	37.27	98.4579
Total:			**3.913**	**13.806**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**GA3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Oct/17 23:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

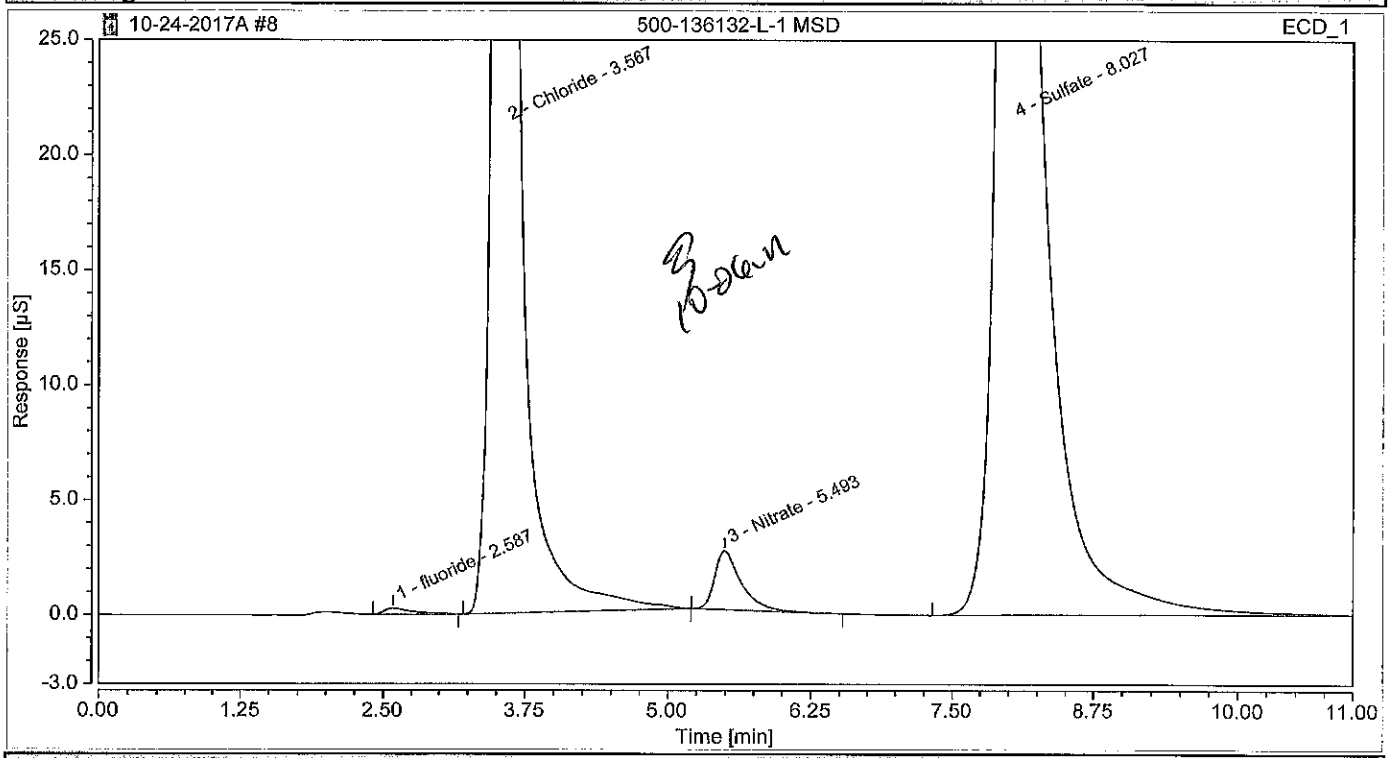
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.580	0.07721	0.268	0.14	0.12	0.2573
2	Chloride	3.560	25.39236	144.090	47.58	65.64	82.9426
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.493	0.67266	2.489	1.26	1.13	0.9519
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.027	27.23065	72.664	51.02	33.10	129.5776
Total:			**53.373**	**219.512**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-1 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**GA4**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Oct/17 23:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

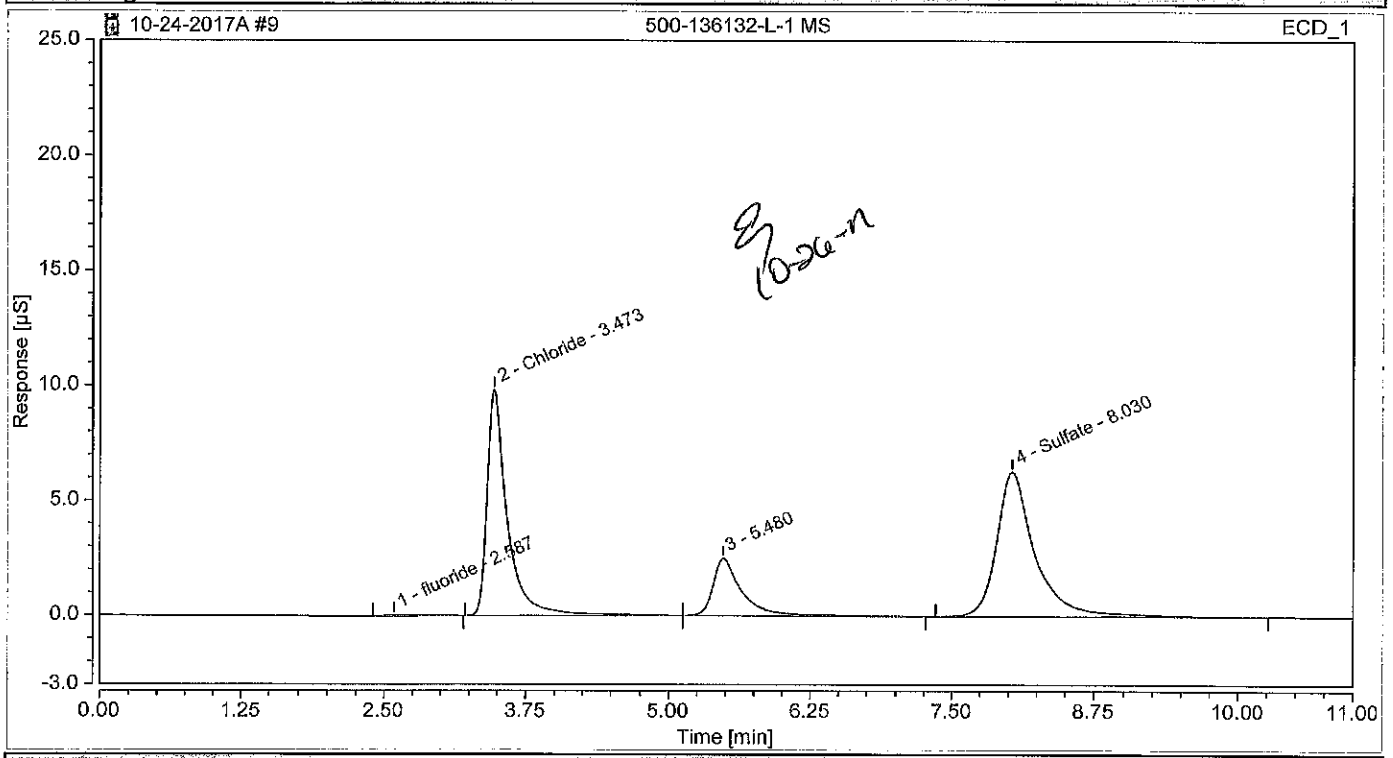
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.587	0.07978	0.269	0.15	0.12	0.2659
2	Chloride	3.567	25.44003	144.681	47.63	65.69	83.0981
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.493	0.69359	2.565	1.30	1.16	0.9797
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.027	27.19911	72.747	50.92	33.03	129.4276
Total:			**53.413**	**220.261**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**GA5**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**24/Oct/17 23:32**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

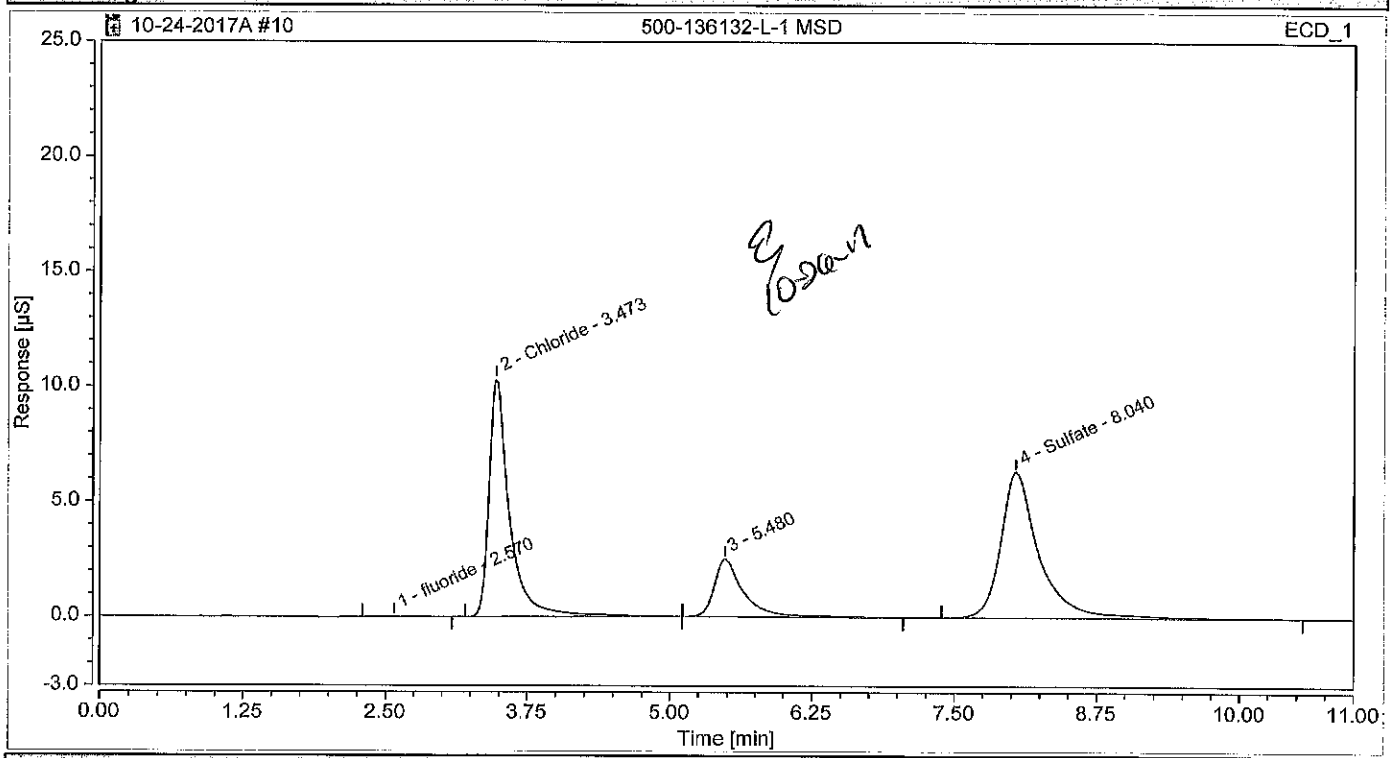
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.587	0.01448	0.034	0.28	0.18	0.4847
2	Chloride	3.473	2.02485	9.815	38.49	52.67	67.0996
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		5.480	0.74597	2.491	14.18	13.37	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.030	2.47536	6.295	47.05	33.78	118.1336
Total:			**5.261**	**18.635**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-1 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**GA6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**24/Oct/17 23:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

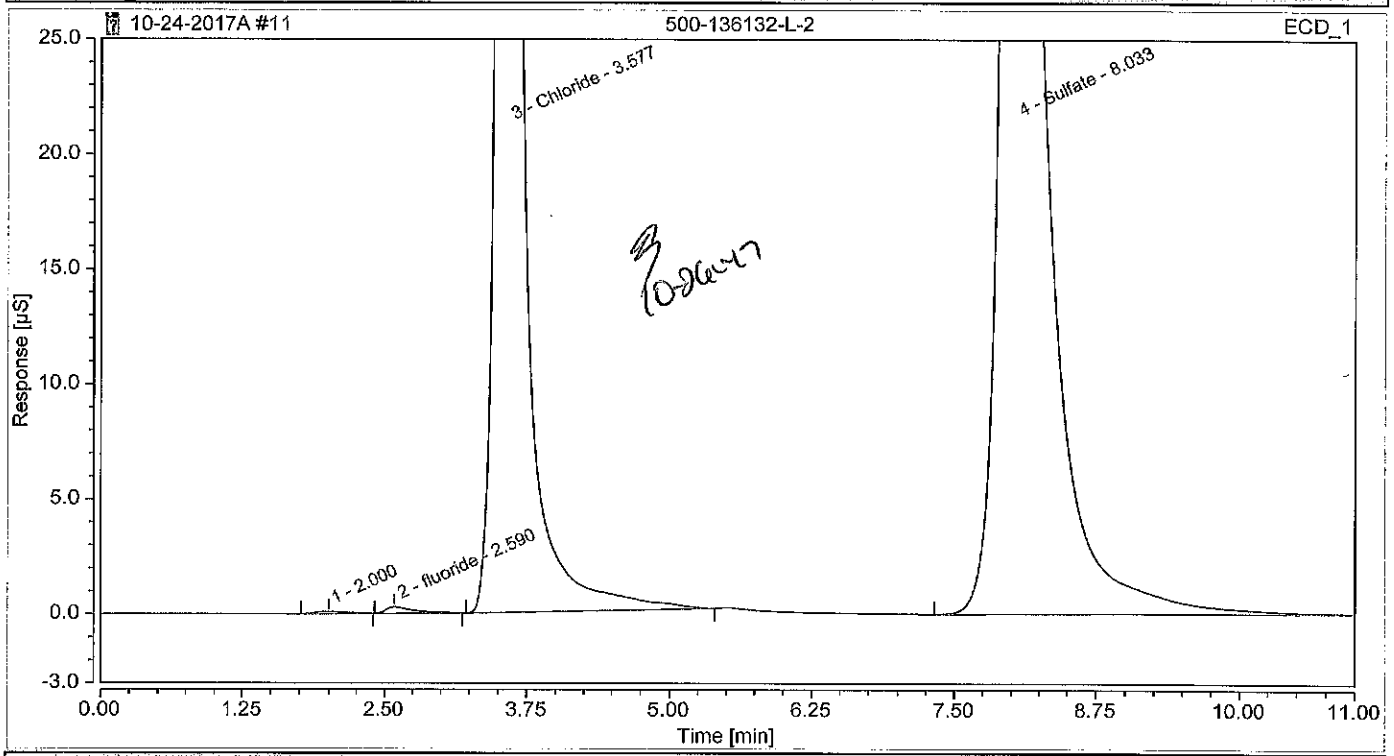
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.570	0.01055	0.034	0.20	0.18	0.3538
2	Chloride	3.473	2.14097	10.325	39.62	53.75	70.8876
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		5.480	0.74433	2.502	13.78	13.03	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.040	2.50735	6.346	46.40	33.04	119.6554
Total:			**5.403**	**19.207**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-2**	*Run Time (min):*	**11.00**
Vial Number:	**GA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Oct/17 23:57**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

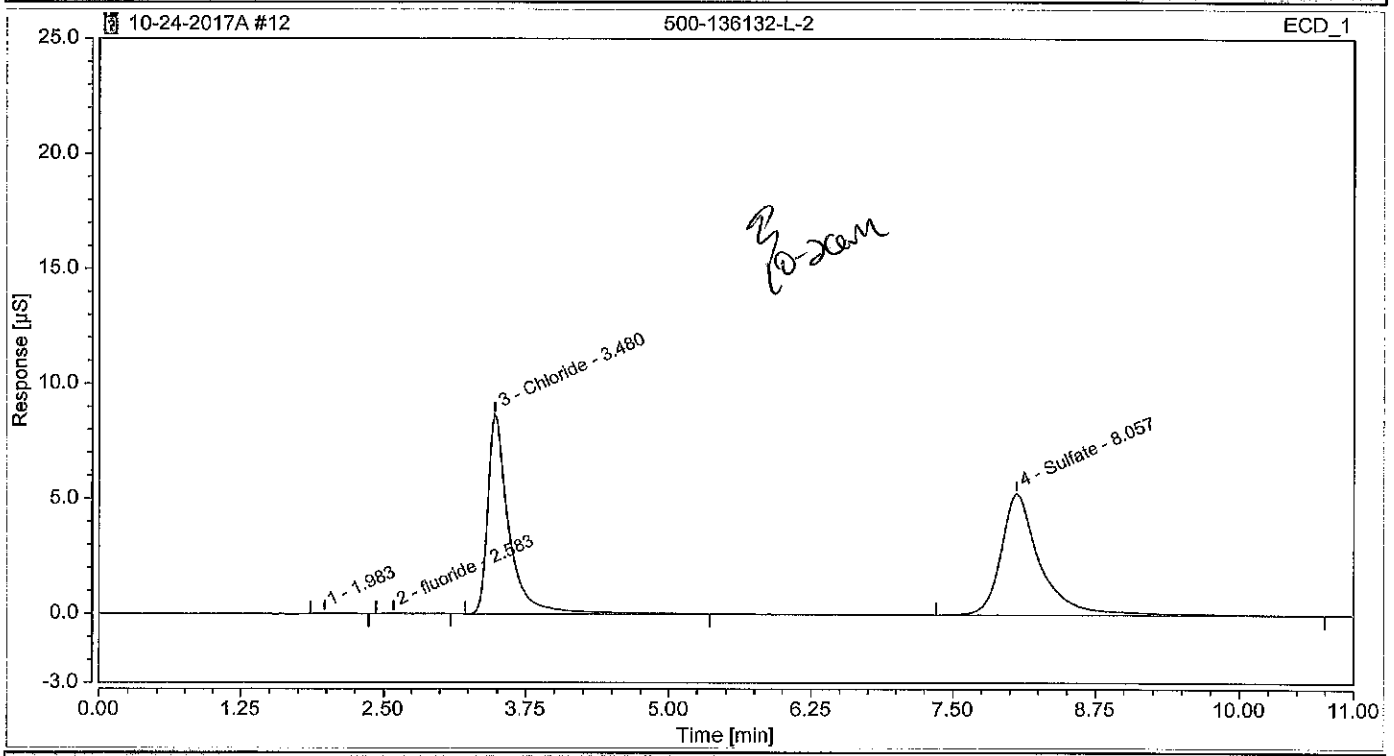
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.000	0.03004	0.097	0.06	0.04	n.a.
2	fluoride	2.590	0.08067	0.276	0.15	0.13	0.2688
3	Chloride	3.577	25.37460	143.882	48.09	66.38	82.8847
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.033	27.28364	72.515	51.70	33.45	129.8296
Total:			**52.769**	**216.769**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-2**	*Run Time (min):*	**11.00**
Vial Number:	**GA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**25/Oct/17 00:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

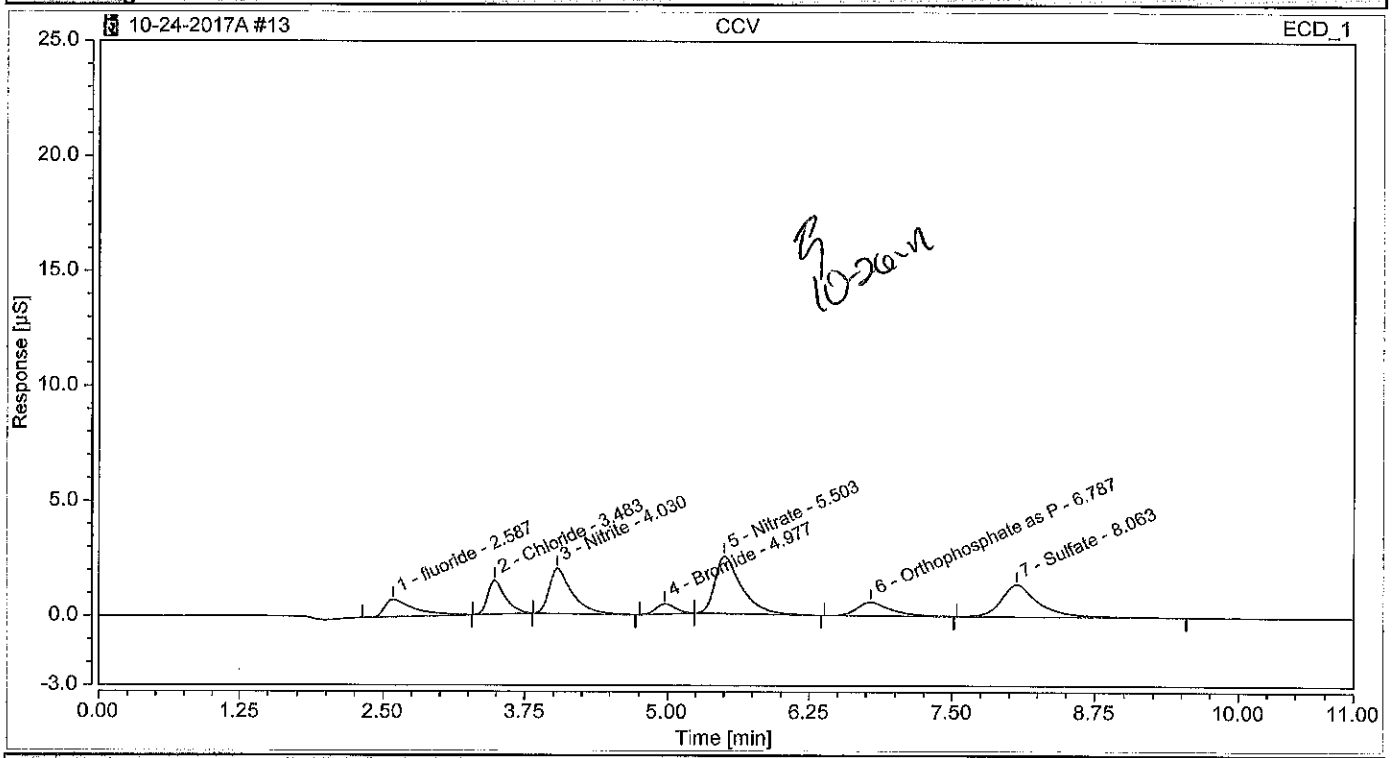
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.983	0.00746	0.027	0.19	0.20	n.a.
2	fluoride	2.583	0.00882	0.028	0.22	0.20	0.2961
3	Chloride	3.480	1.84409	8.668	46.39	61.96	61.2026
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.057	2.11489	5.267	53.20	37.64	100.9856
Total:			**3.975**	**13.991**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 00:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

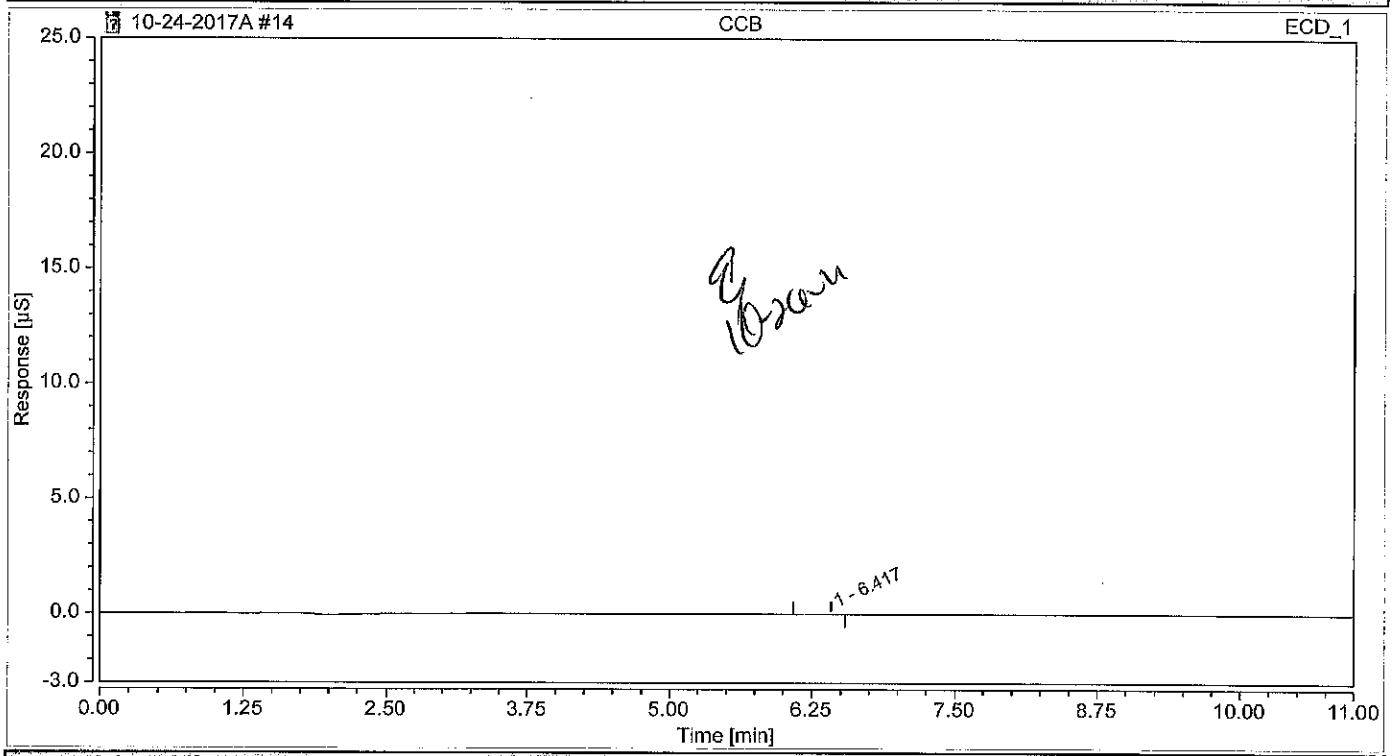
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.587	0.22519	0.744	9.18	8.19	0.7500
2	Chloride	3.483	0.26201	1.465	10.68	16.11	0.9590
3	Nitrite	4.030	0.46324	1.962	18.89	21.58	0.9579
4	Bromide	4.977	0.08541	0.434	3.48	4.78	0.7755
5	Nitrate	5.503	0.68311	2.505	27.85	27.55	0.9658
6	Orthophosphate as P	6.787	0.19709	0.590	8.03	6.49	1.1139
7	Sulfate	8.063	0.53689	1.392	21.89	15.31	2.5918
Total:			**2.453**	**9.092**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 00:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

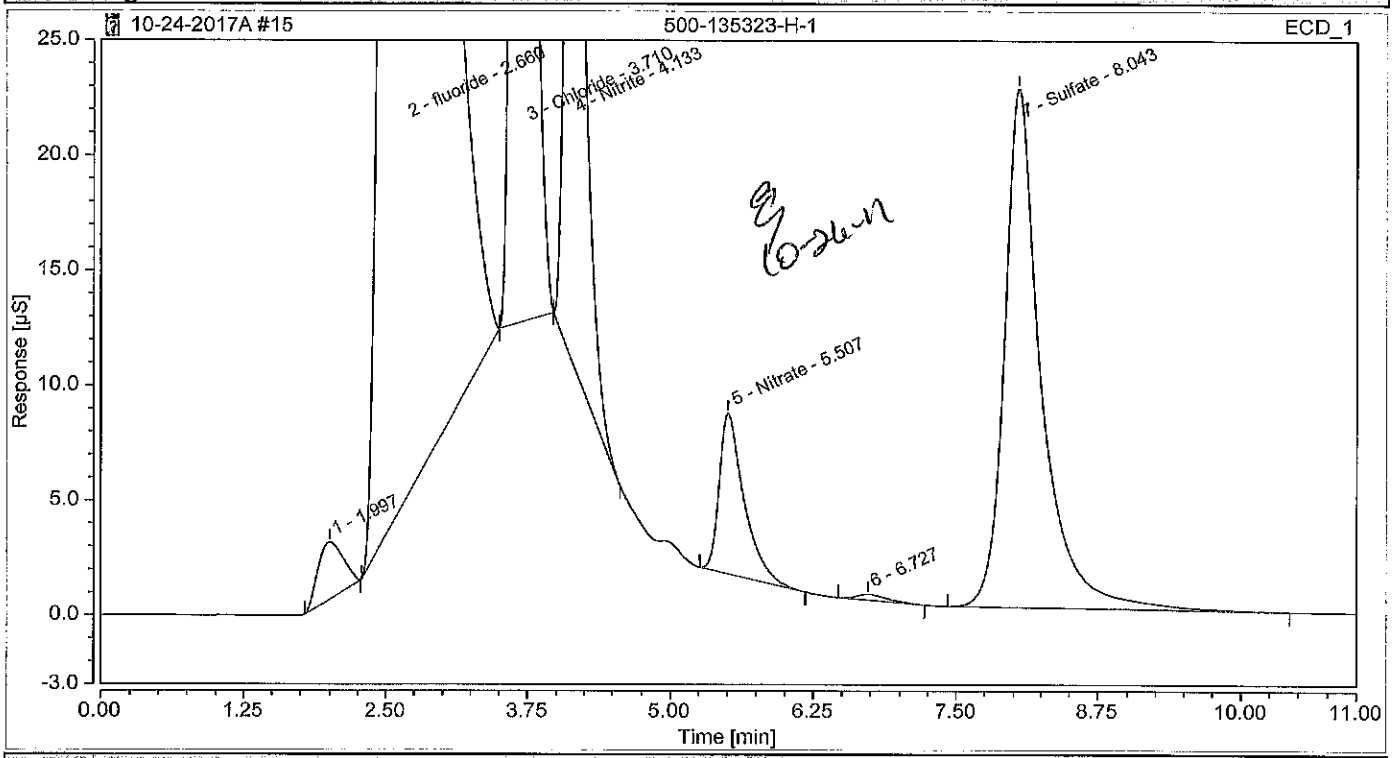
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		6.417	0.00100	0.005	100.00	100.00	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.001**	**0.005**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-1**	*Run Time (min):*	**11.00**
Vial Number:	**GB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 00:46**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

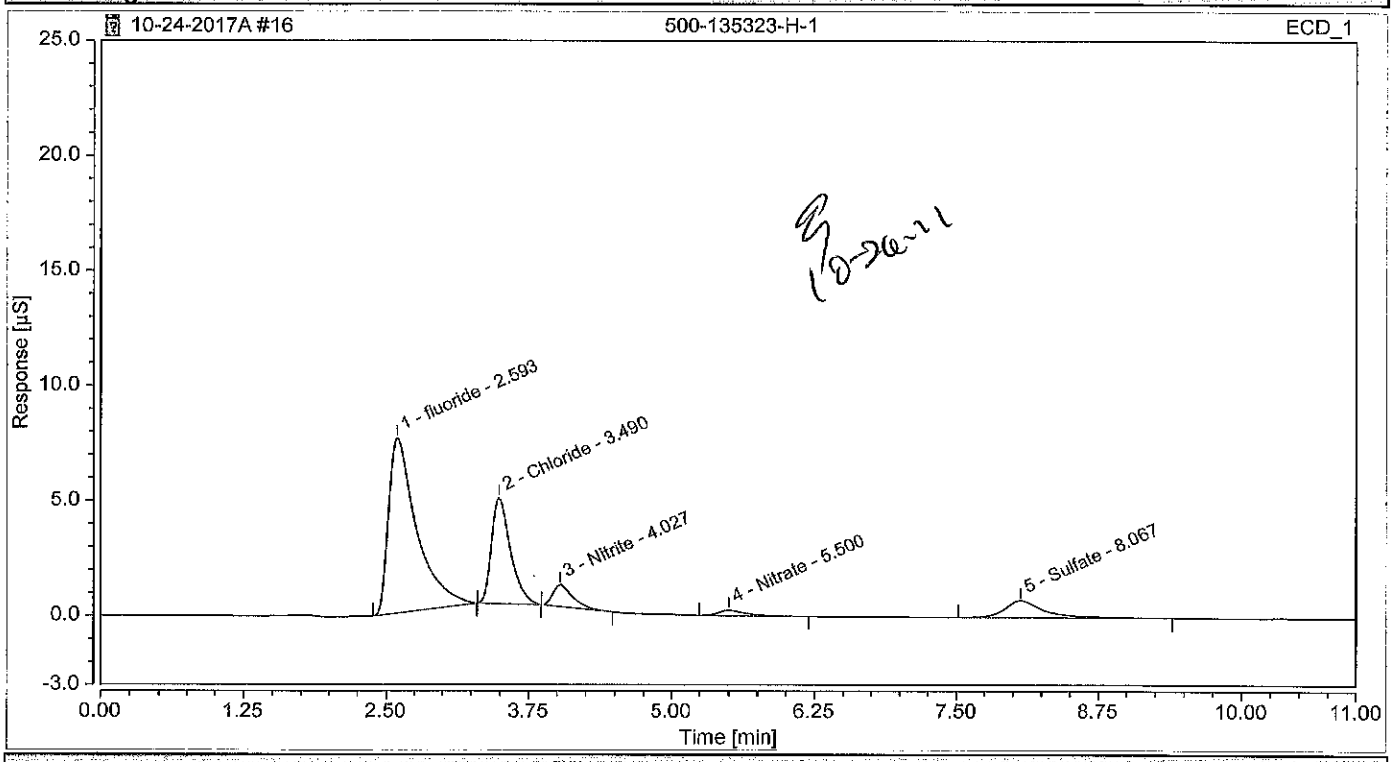
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.997	0.63356	2.486	0.56	0.51	n.a.
2	fluoride	2.660	59.70635	138.825	52.67	28.46	198.7926
3	Chloride	3.710	36.00056	282.814	31.76	57.97	117.5501
4	Nitrite	4.133	6.58769	33.938	5.81	6.96	11.9263
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	5.507	1.76301	6.983	1.56	1.43	2.4016
6		6.727	0.07650	0.256	0.07	0.05	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	8.043	8.60082	22.559	7.59	4.62	40.9530
Total:			**113.368**	**487.861**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-1**	*Run Time (min):*	**11.00**
Vial Number:	**GB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**25/Oct/17 00:59**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

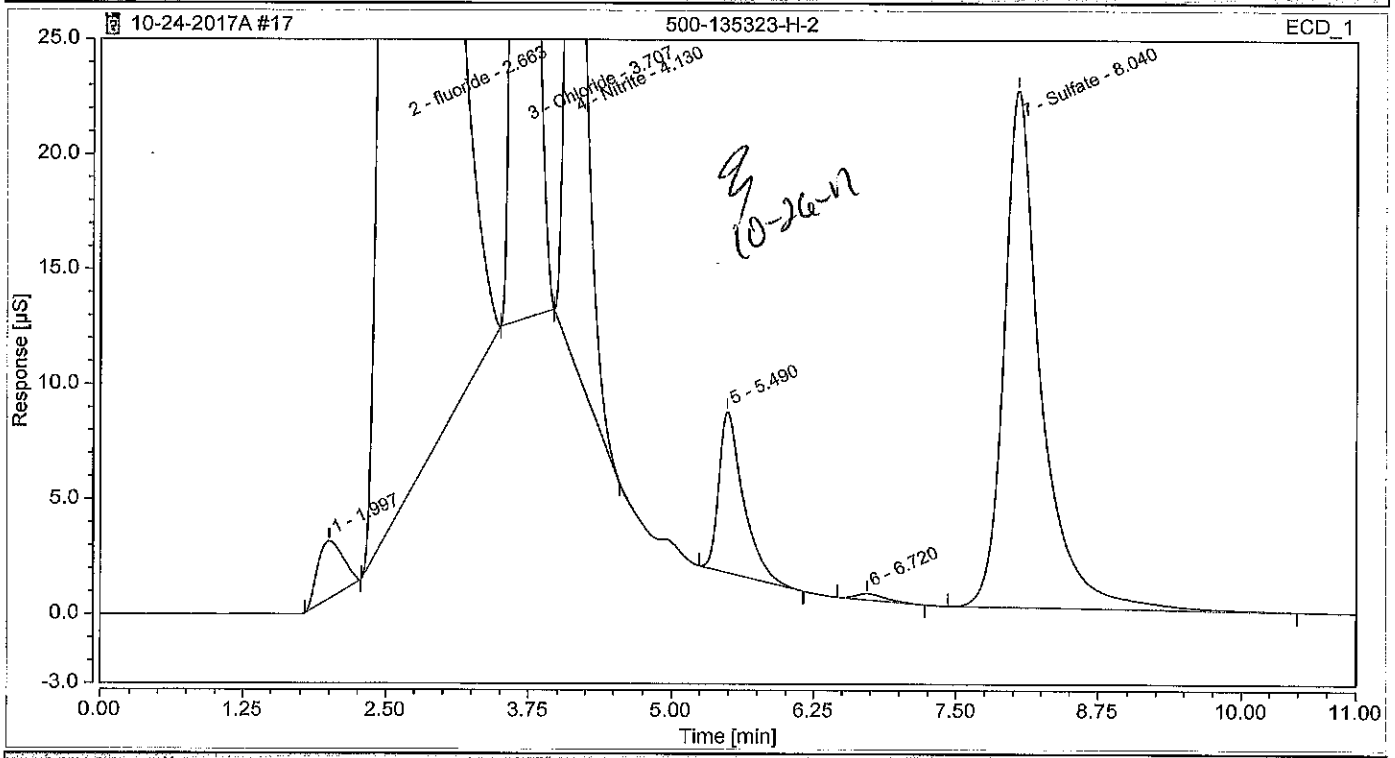
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.593	2.21245	7.606	60.89	53.88	184.1652
2	Chloride	3.490	0.87197	4.592	24.00	32.53	73.7215
3	Nitrite	4.027	0.19302	0.948	5.31	6.71	11.8475
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.500	0.06354	0.234	1.75	1.66	3.5514
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.067	0.29247	0.736	8.05	5.21	35.7269
Total:			**3.633**	**14.116**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-2**	*Run Time (min):*	**11.00**
Vial Number:	**GB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 01:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

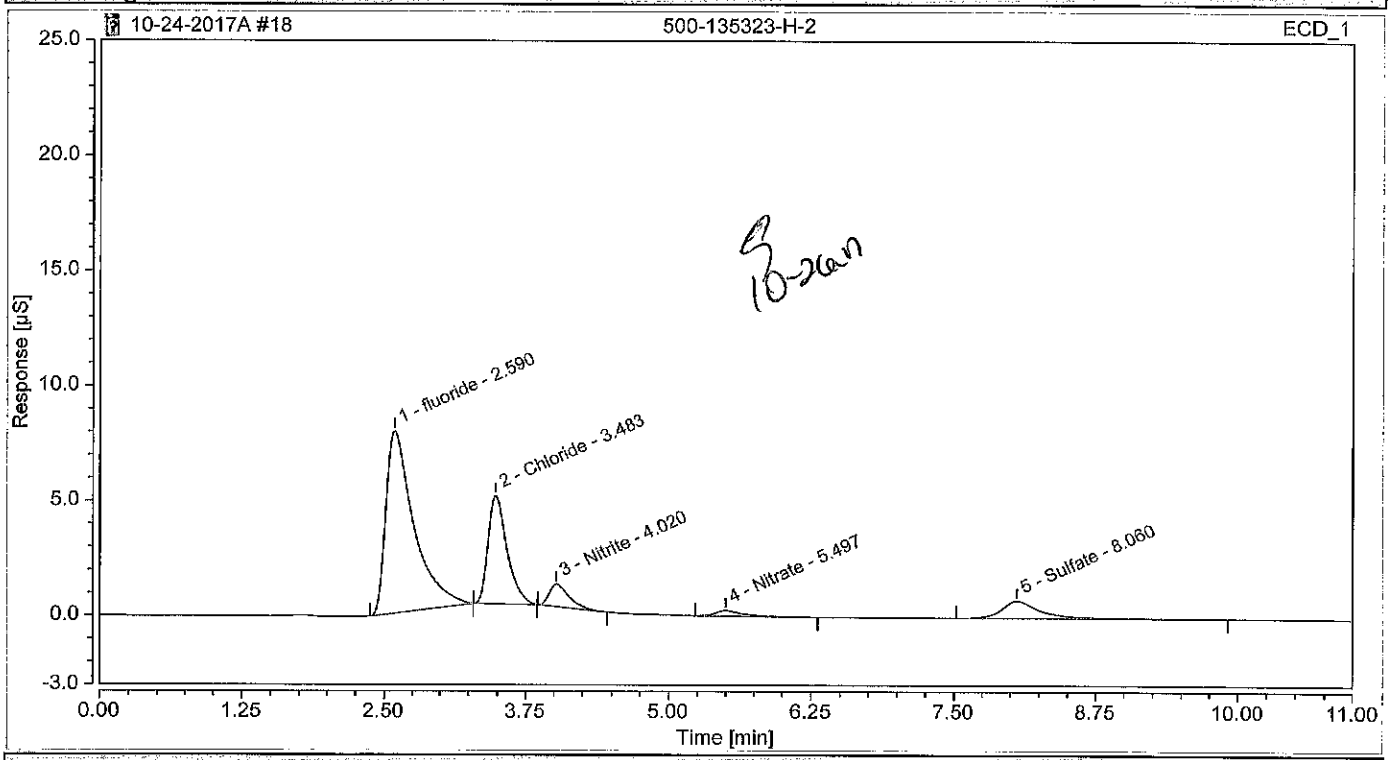
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.997	0.64001	2.500	0.56	0.51	n.a.
2	fluoride	2.663	59.73879	139.874	52.73	28.58	198.9006
3	Chloride ok	3.707	35.85910	282.646	31.65	57.76	117.0886
4	Nitrite	4.130	6.64820	34.551	5.87	7.06	12.0347
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		5.490	1.76284	6.998	1.56	1.43	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		6.720	0.07951	0.268	0.07	0.05	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate ok	8.040	8.57041	22.496	7.56	4.60	40.8084
Total:			**113.299**	**489.335**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-2**	*Run Time (min):*	**11.00**
Vial Number:	**GB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**25/Oct/17 01:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

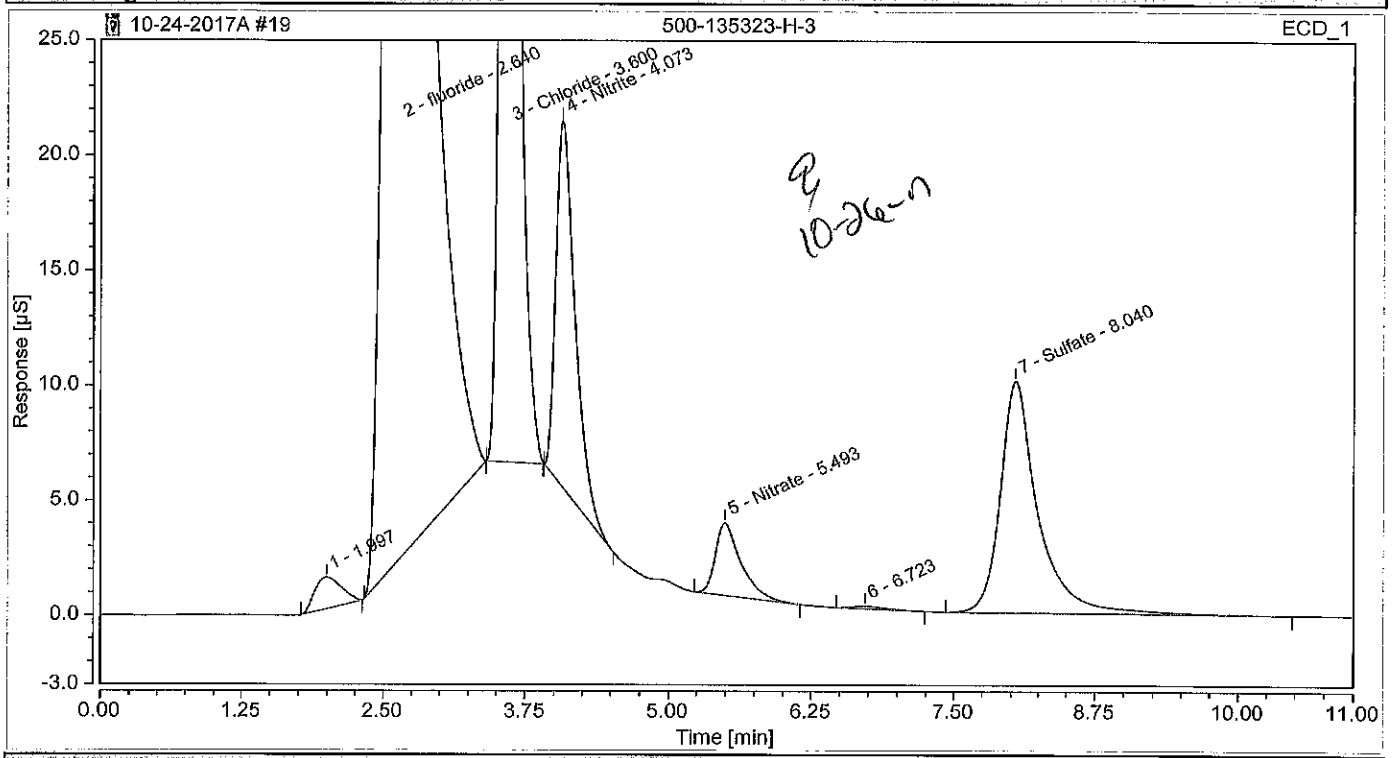
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.590	2.30139	7.916	61.08	54.22	191.5686
2	Chloride	3.483	0.89687	4.706	23.80	32.23	75.7529
3	Nitrite	4.020	0.20156	0.990	5.35	6.78	12.2299
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.497	0.06830	0.242	1.81	1.66	3.7097
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.060	0.29958	0.747	7.95	5.12	36.5731
Total:			**3.768**	**14.601**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-3**	*Run Time (min):*	**11.00**
Vial Number:	**GB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**25/Oct/17 01:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

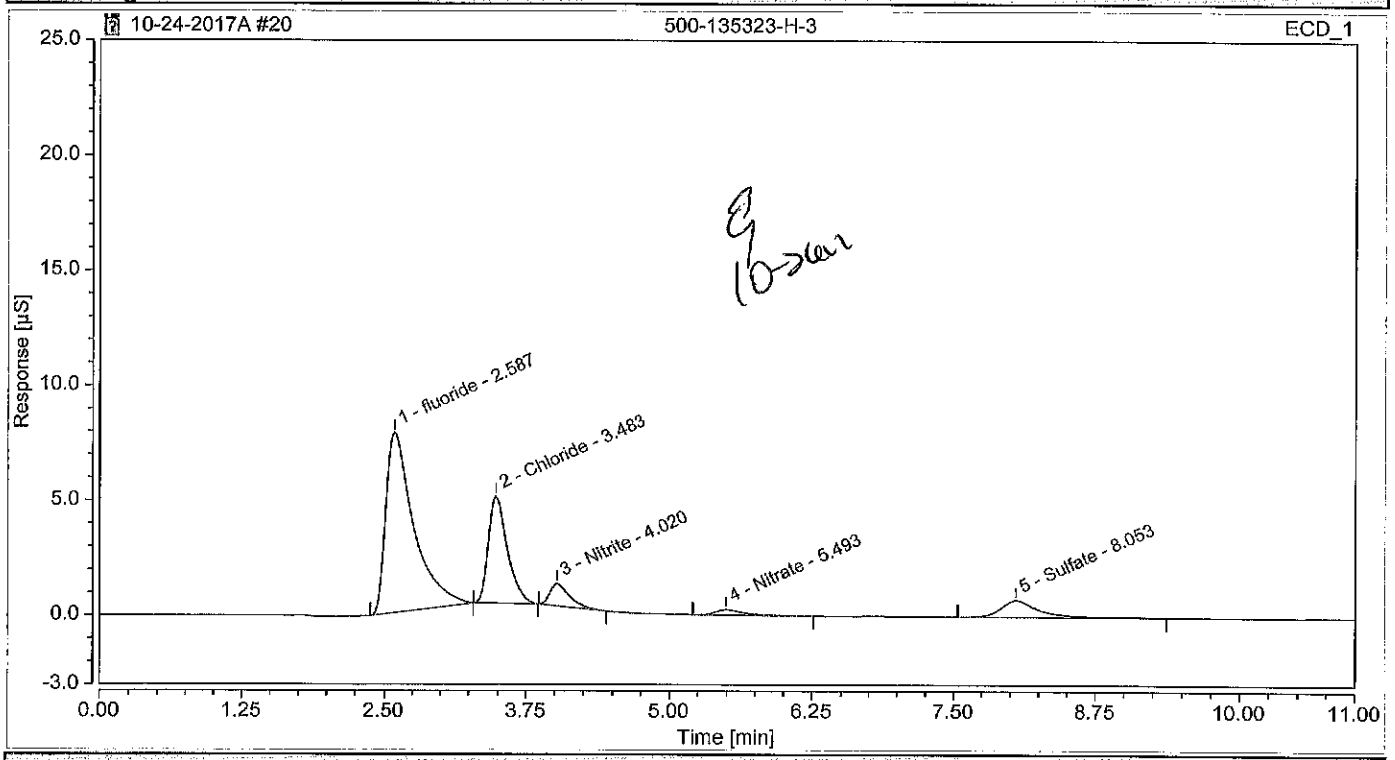
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.997	0.37646	1.372	0.68	0.58	n.a.
2	fluoride	2.640	31.02088	83.634	55.97	35.47	206.5686
3	Chloride	3.600	16.07273	121.515	29.00	51.53	105.0777
4	Nitrite	4.073	3.16628	15.944	5.71	6.76	11.5976
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	5.493	0.81991	3.163	1.48	1.34	2.2954
6		6.723	0.03569	0.120	0.06	0.05	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	8.040	3.93187	10.066	7.09	4.27	37.4843
Total:			**55.424**	**235.813**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-3**	*Run Time (min):*	**11.00**
Vial Number:	**GB6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**25/Oct/17 01:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

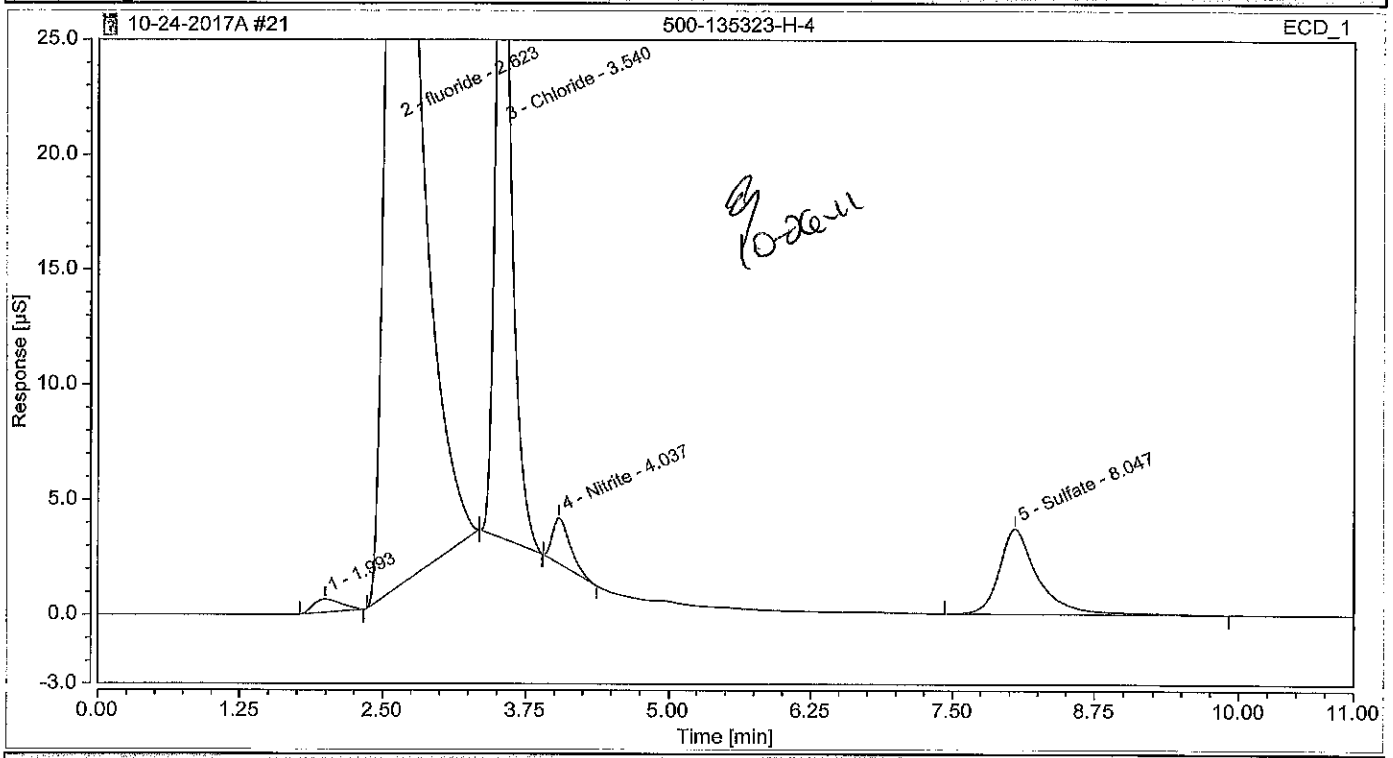
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.587	2.27485	7.843	61.32	54.30	189.3593
2	Chloride	3.483	0.88749	4.655	23.92	32.23	74.9879
3	Nitrite	4.020	0.19816	0.975	5.34	6.75	12.0778
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.493	0.06732	0.240	1.81	1.66	3.6770
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.053	0.28189	0.730	7.60	5.05	34.4686
Total:			**3.710**	**14.443**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-4**	*Run Time (min):*	**11.00**
Vial Number:	**GB7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**5.0000**
Injection Date/Time:	**25/Oct/17 02:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

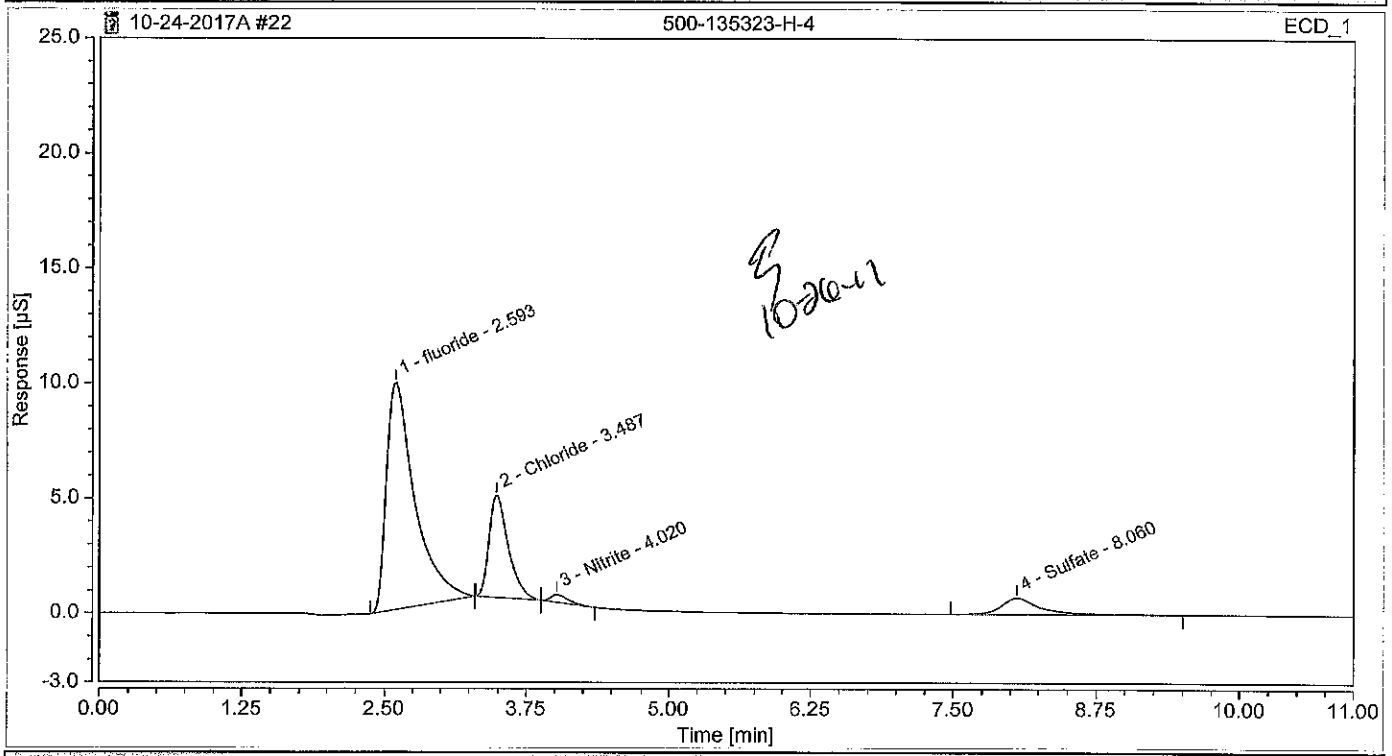
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.993	0.16270	0.570	0.72	0.66	n.a.
2	fluoride	2.623	15.51527	46.506	68.56	53.57	258.2918
3	Chloride	3.540	5.12329	34.057	22.64	39.23	84.0905
4	Nitrite	4.037	0.35579	1.973	1.57	2.27	3.8270
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.047	1.47361	3.706	6.51	4.27	35.2397
Total:			**22.631**	**86.812**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-4**	*Run Time (min):*	**11.00**
Vial Number:	**GB8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**25/Oct/17 02:13**	*Sample Weight:*	**1.0000**

Chromatogram



10-26-17

Integration Results

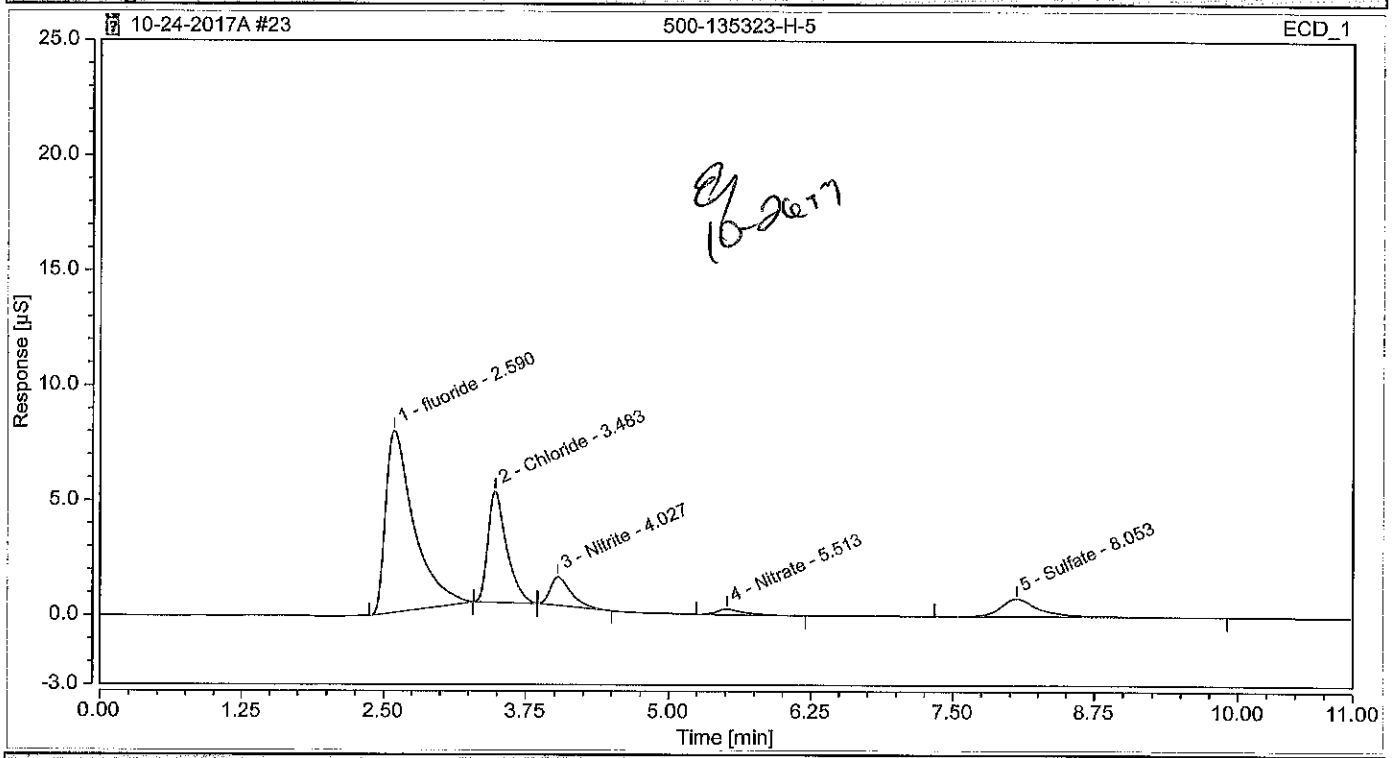
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.593	2.88238	9.871	70.57	64.25	239.9284
2	Chloride	3.487	0.85556	4.440	20.95	28.90	72.3833
3	Nitrite	4.020	0.06073	0.335	1.49	2.18	5.9247
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.060	0.28582	0.719	7.00	4.68	34.9367
Total:			**4.084**	**15.365**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-5**	*Run Time (min):*	**11.00**
Vial Number:	**GC1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**25/Oct/17 02:25**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

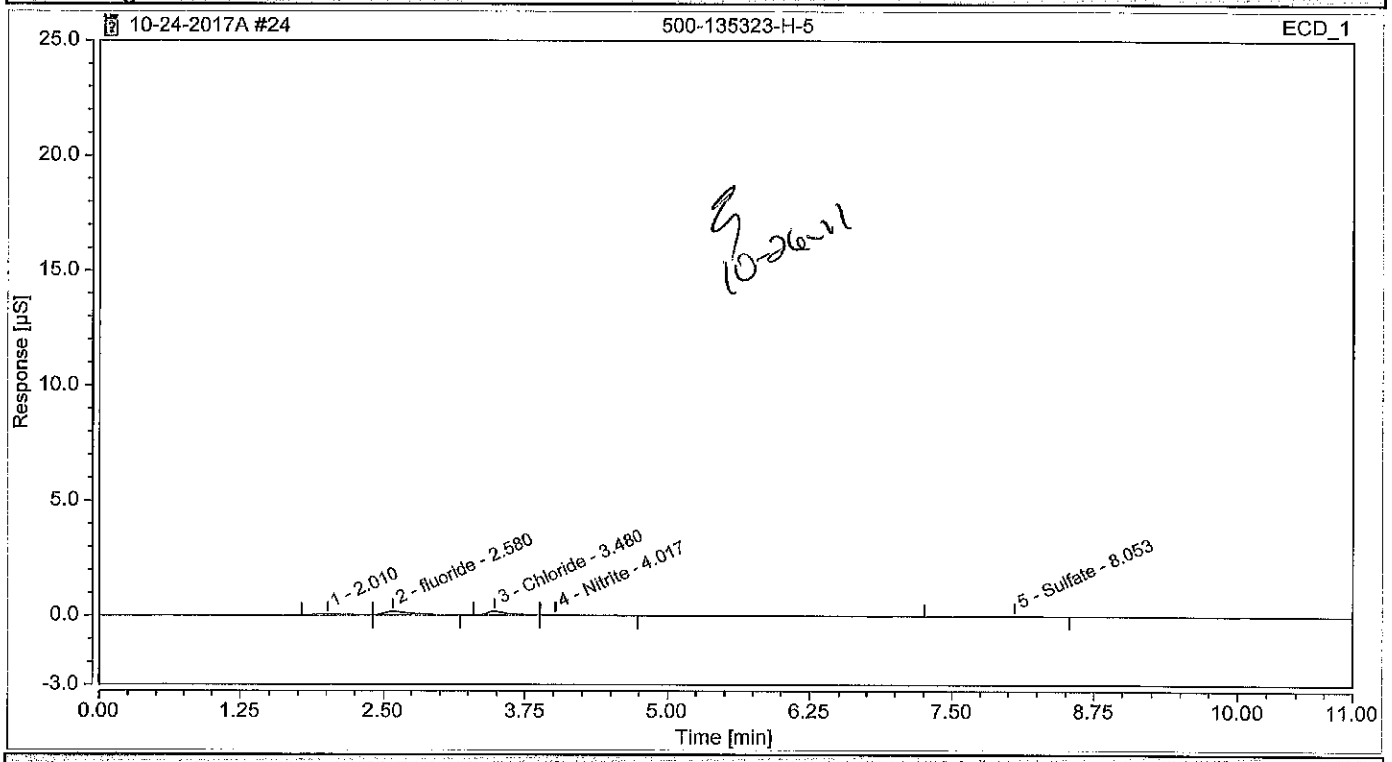
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.590	2.30716	7.905	59.97	52.69	192.0484
2	Chloride	3.483	0.90208	4.834	23.45	32.23	76.1772
3	Nitrite	4.027	0.26240	1.244	6.82	8.29	14.9541
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.513	0.06529	0.243	1.70	1.62	3.6094
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.053	0.31021	0.775	8.06	5.16	37.8370
Total:			**3.847**	**15.001**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-5**	*Run Time (min):*	**11.00**
Vial Number:	**GC2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**25/Oct/17 02:37**	*Sample Weight:*	**1.0000**

Chromatogram



10-26-17

Integration Results

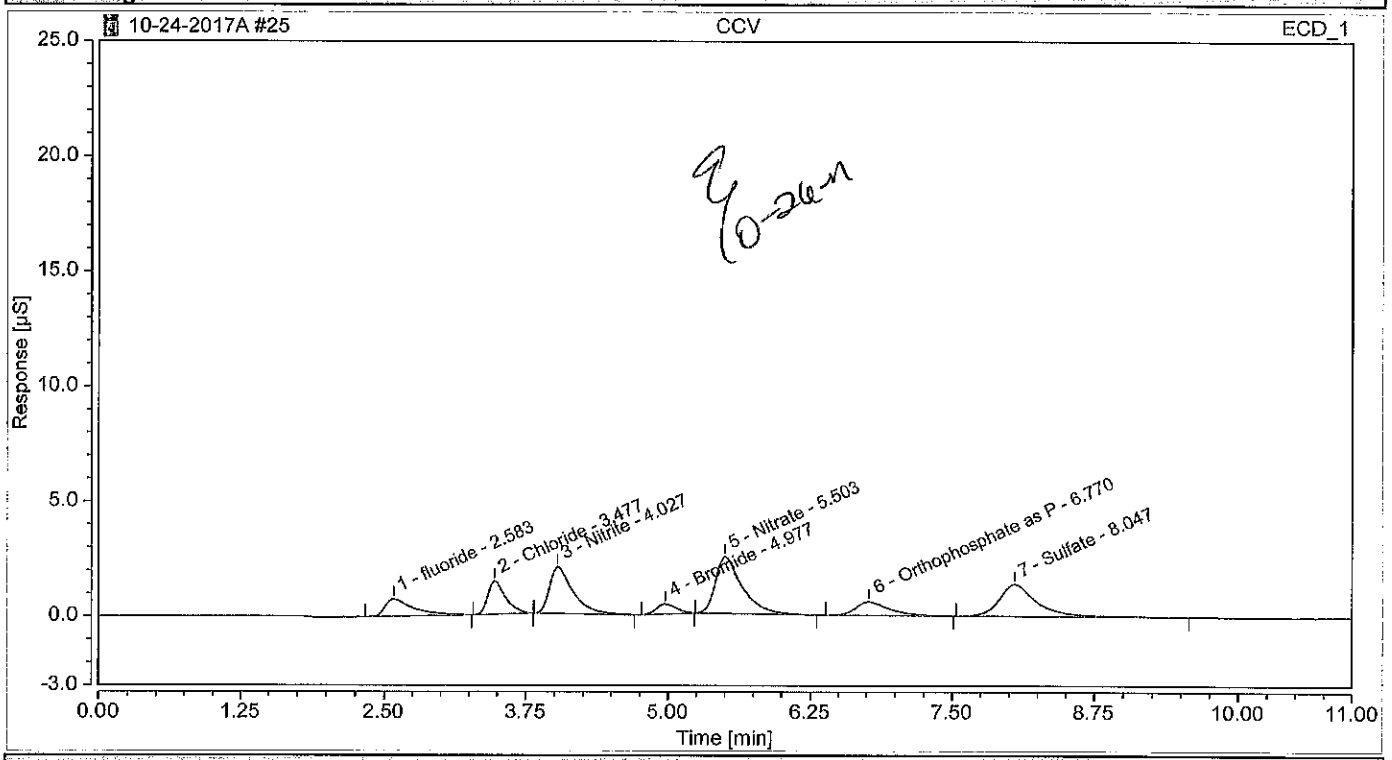
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.010	0.01379	0.044	12.43	10.42	n.a.
2	fluoride	2.580	0.04362	0.154	39.32	36.29	145.4913
3	Chloride PC	3.480	0.03176	0.168	28.63	39.73	207.8297
4	Nitrite	4.017	0.00657	0.023	5.92	5.53	139.9828
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate PC	8.053	0.01520	0.034	13.70	8.02	110.0683
Total:			**0.111**	**0.424**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 02:50**	*Sample Weight:*	**1.0000**

Chromatogram



10-26-17

Integration Results

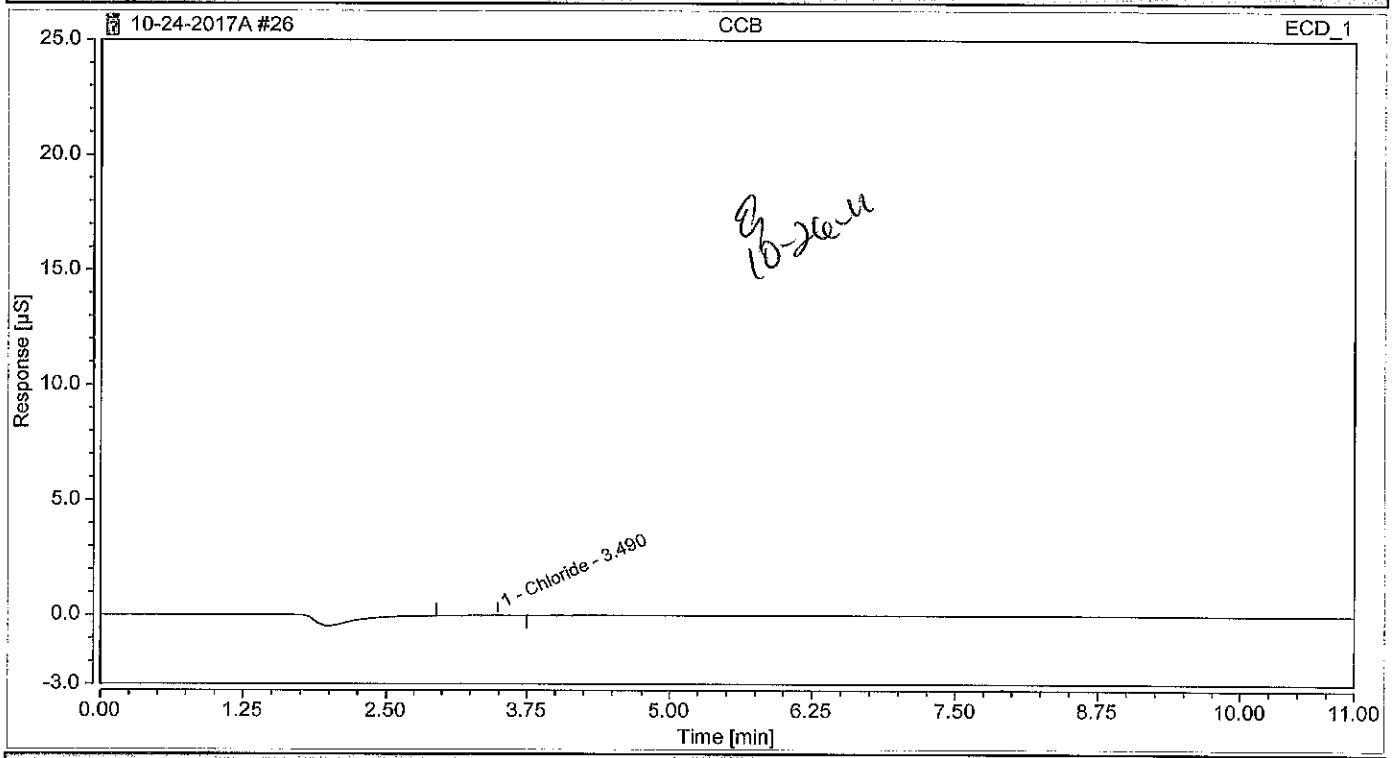
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.583	0.22042	0.744	8.97	8.19	0.7341
2	Chloride	3.477	0.26237	1.453	10.68	16.00	0.9601
3	Nitrite	4.027	0.47912	2.023	19.51	22.27	0.9863
4	Bromide	4.977	0.08441	0.426	3.44	4.69	0.7668
5	Nitrate	5.503	0.67615	2.472	27.53	27.22	0.9565
6	Orthophosphate as P	6.770	0.19794	0.584	8.06	6.43	1.1183
7	Sulfate	8.047	0.53554	1.381	21.81	15.21	2.5854
Total:			**2.456**	**9.083**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 03:02**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

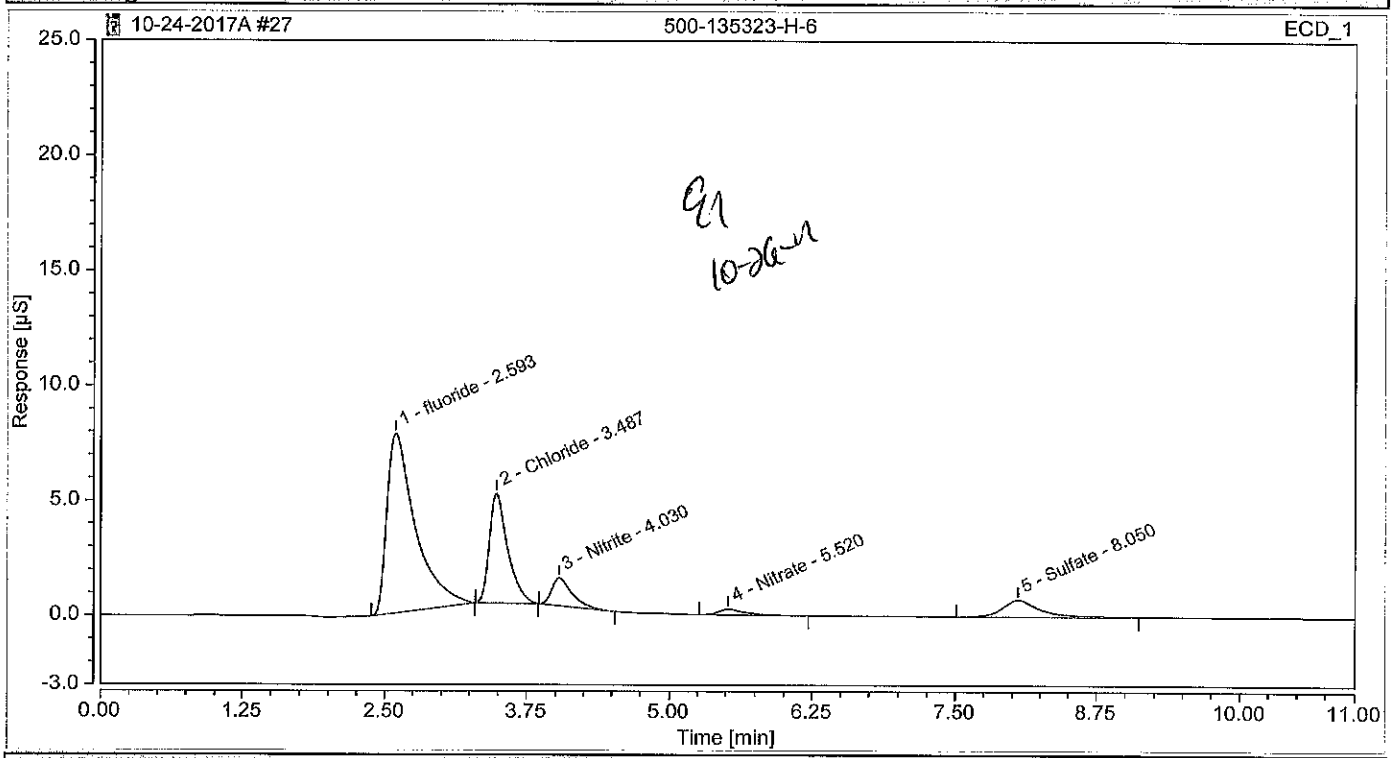
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.490	0.00425	0.014	100.00	100.00	0.1181
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.004**	**0.014**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-6**	*Run Time (min):*	**11.00**
Vial Number:	**GC3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**25/Oct/17 03:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

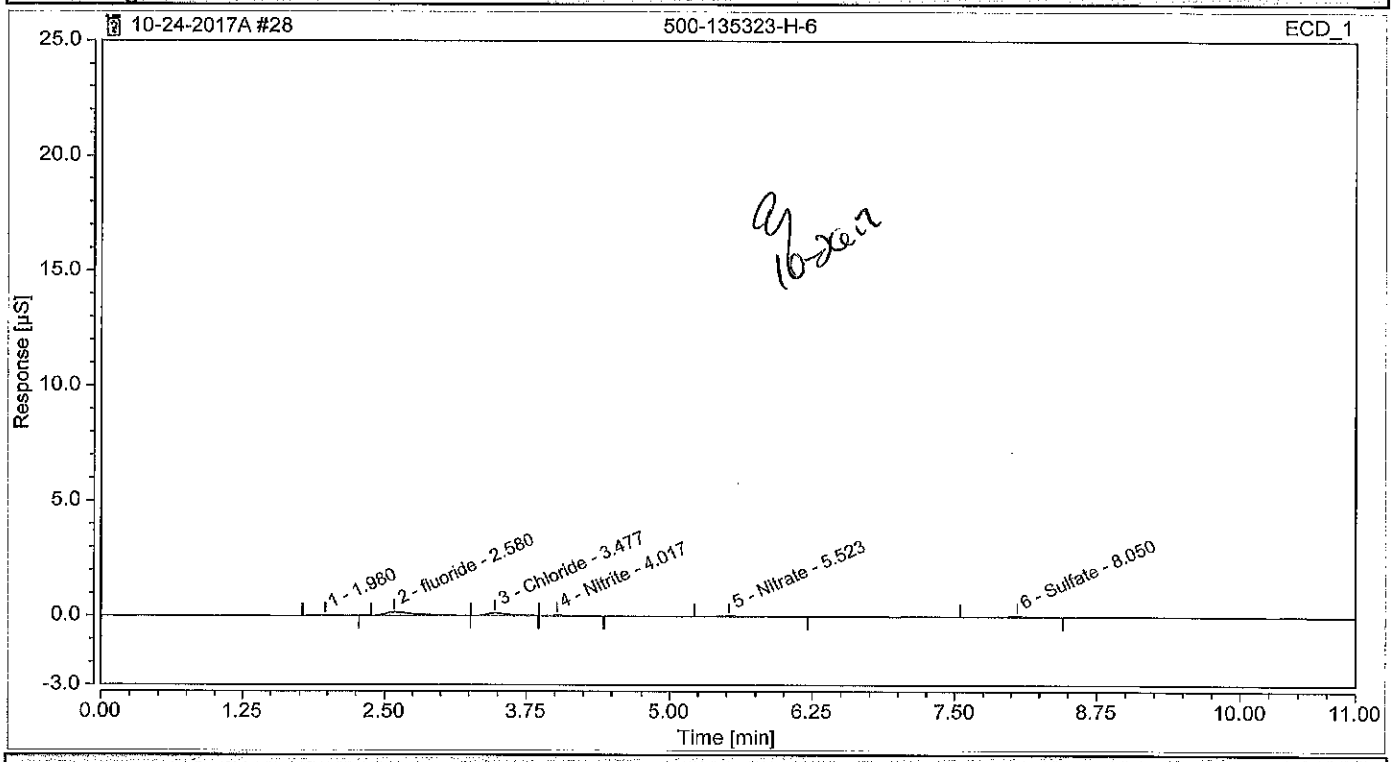
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.593	2.28459	7.806	60.51	52.85	190.1698
2	Chloride	3.487	0.88996	4.776	23.57	32.33	75.1892
3	Nitrite	4.030	0.25445	1.212	6.74	8.21	14.5981
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.520	0.06471	0.242	1.71	1.64	3.5904
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.050	0.28214	0.734	7.47	4.97	34.4982
Total:			**3.776**	**14.771**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-6**	*Run Time (min):*	**11.00**
Vial Number:	**GC4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**25/Oct/17 03:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

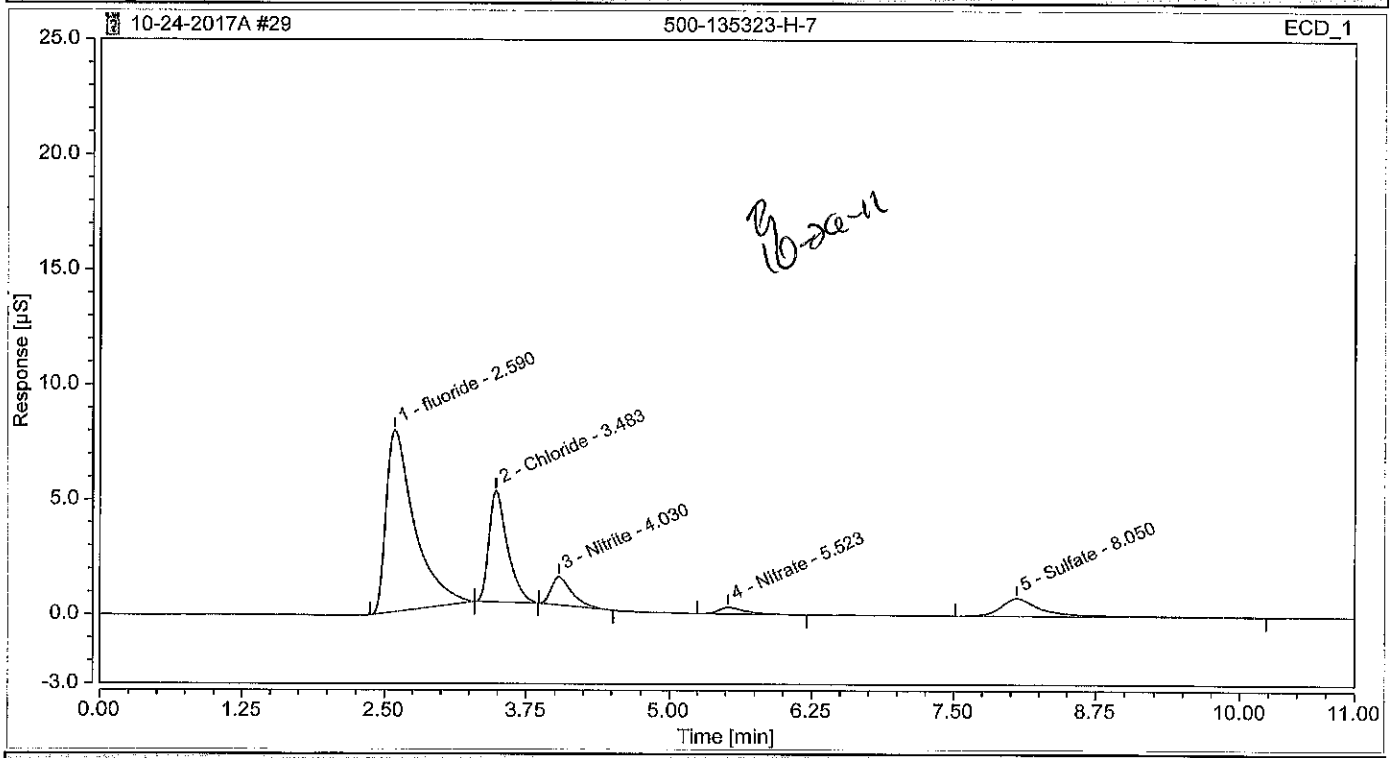
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.980	0.00414	0.017	4.14	4.38	n.a.
2	fluoride	2.580	0.04786	0.162	47.85	41.86	159.6176
3	Chloride	3.477	0.02348	0.128	23.47	32.96	180.8045
4	Nitrite	4.017	0.00503	0.023	5.03	5.86	137.2339
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	5.523	0.00835	0.026	8.34	6.65	68.6729
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.050	0.01116	0.032	11.16	8.28	90.8663
Total:			**0.100**	**0.388**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-7**	*Run Time (min):*	**11.00**
Vial Number:	**GC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**25/Oct/17 03:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

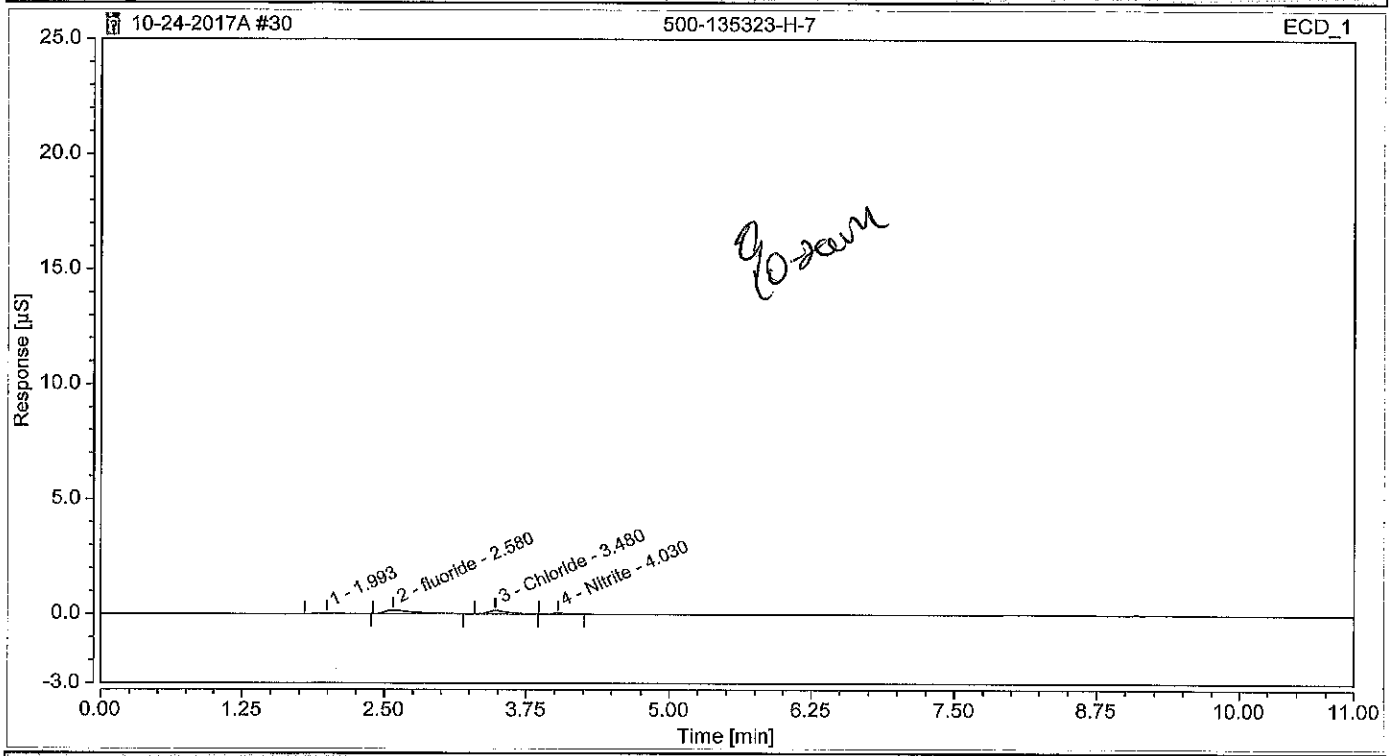
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.590	2.31416	7.897	59.61	52.61	192.6308
2	Chloride	3.483	0.90354	4.834	23.28	32.20	76.2967
3	Nitrite	4.030	0.25755	1.224	6.63	8.16	14.7366
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.523	0.07977	0.288	2.05	1.92	4.0909
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.050	0.32683	0.768	8.42	5.11	39.8136
Total:			**3.882**	**15.011**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-7**	*Run Time (min):*	**11.00**
Vial Number:	**GC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**25/Oct/17 03:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

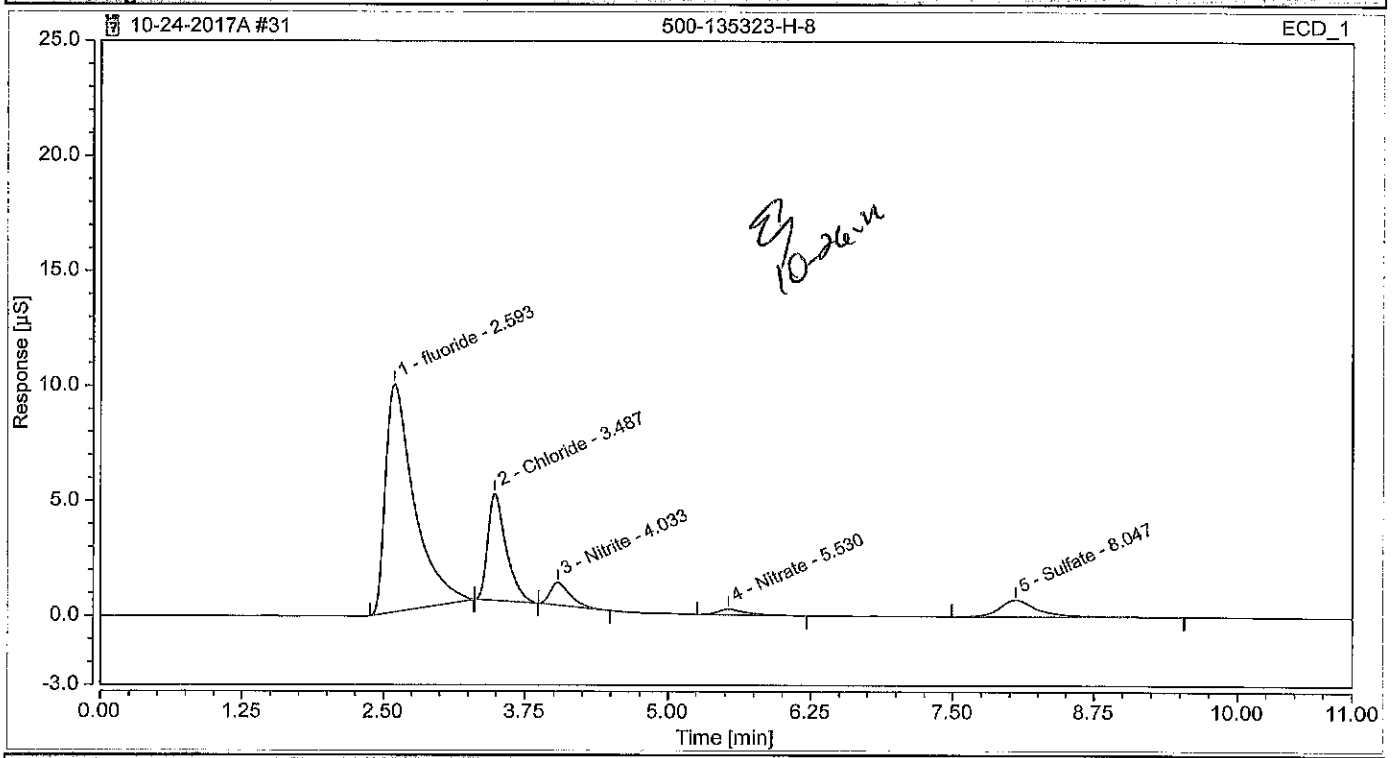
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.993	0.01000	0.034	12.05	9.77	n.a.
2	fluoride	2.580	0.04395	0.154	52.95	44.19	146.5875
3	Chloride	3.480	0.02470	0.138	29.75	39.43	184.7807
4	Nitrite	4.030	0.00436	0.023	5.25	6.62	136.0253
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.083**	**0.349**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-8**	*Run Time (min):*	**11.00**
Vial Number:	**GC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**25/Oct/17 04:04**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

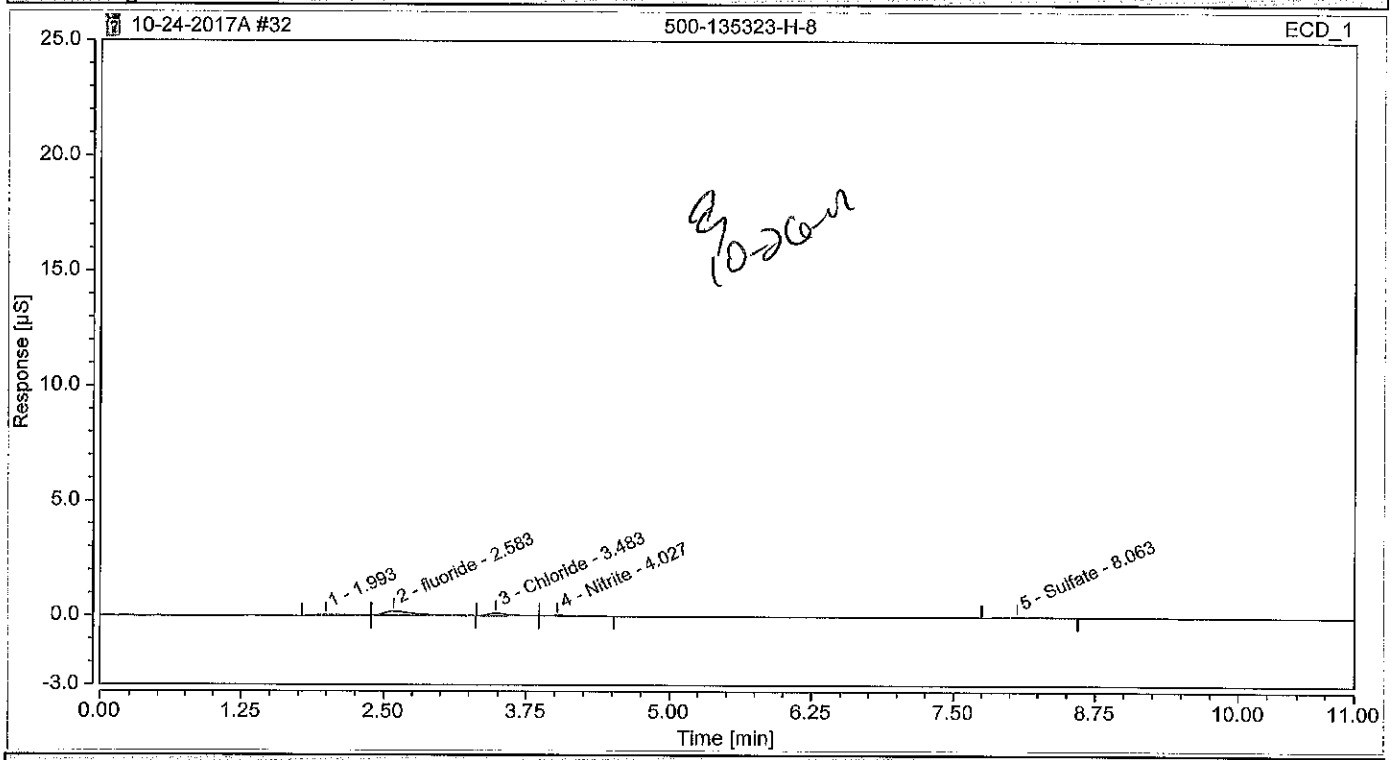
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.593	2.92358	9.910	67.02	59.95	243.3574
2	Chloride	3.487	0.87458	4.653	20.05	28.15	73.9349
3	Nitrite	4.033	0.20131	0.982	4.61	5.94	12.2188
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.530	0.06927	0.251	1.59	1.52	3.7419
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.047	0.29373	0.735	6.73	4.44	35.8774
Total:			**4.362**	**16.530**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-8**	*Run Time (min):*	**11.00**
Vial Number:	**GC8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**25/Oct/17 04:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

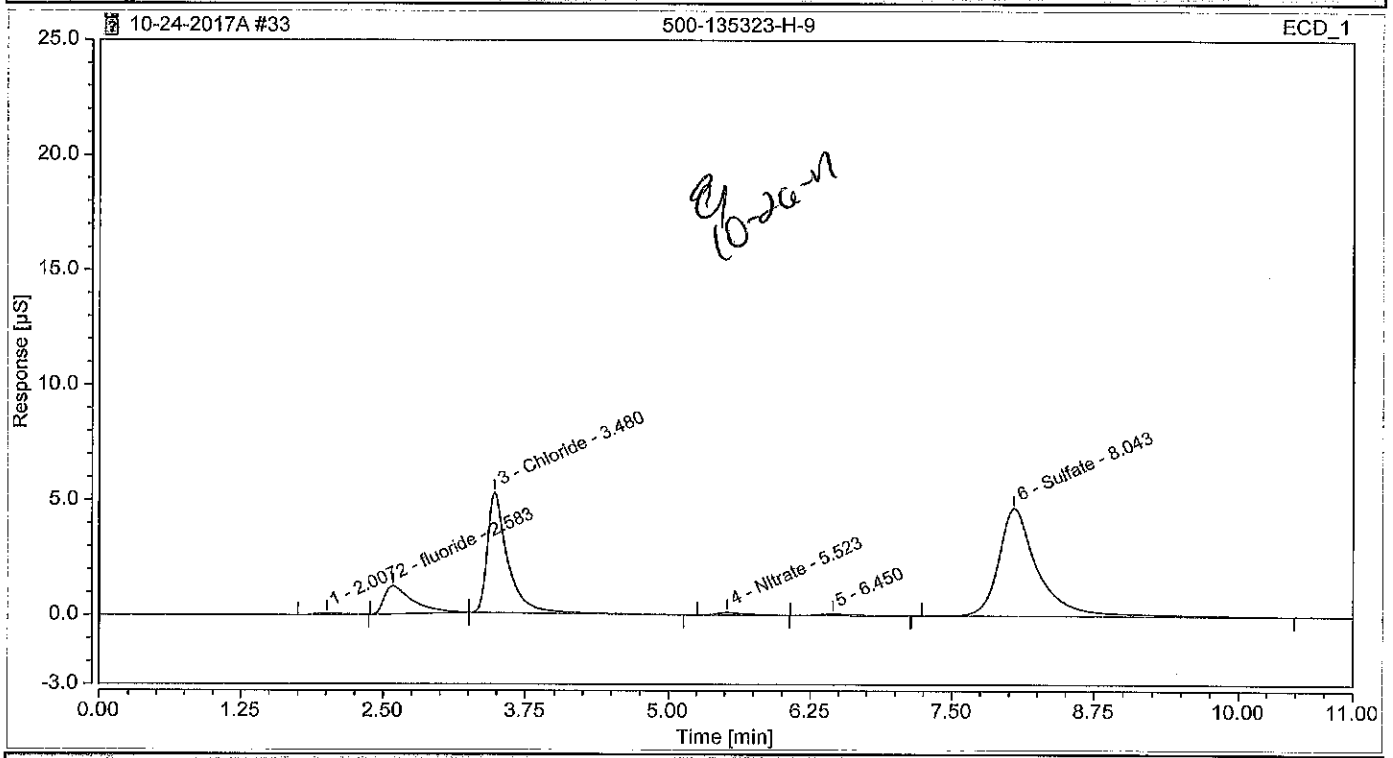
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.993	0.01118	0.038	10.92	9.84	n.a.
2	fluoride	2.583	0.05719	0.194	55.86	49.97	190.6563
3	Chloride	3.483	0.02084	0.112	20.35	28.81	172.1949
4	Nitrite	4.027	0.00518	0.022	5.06	5.71	137.4880
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.063	0.00800	0.022	7.82	5.68	75.8349
Total:			**0.102**	**0.389**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-9**	*Run Time (min):*	**11.00**
Vial Number:	**GD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**25/Oct/17 04:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

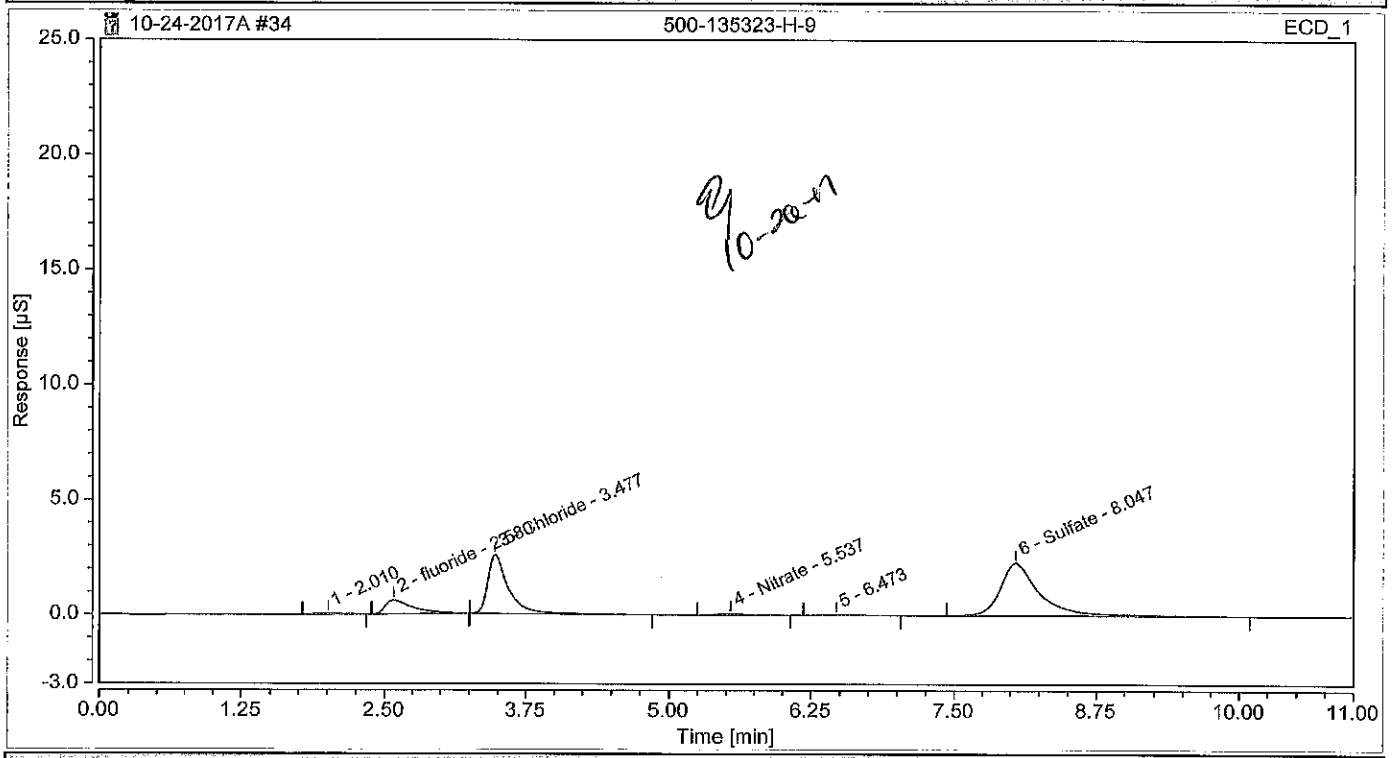
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.007	0.01833	0.059	0.54	0.52	n.a.
2	fluoride	2.583	0.35708	1.223	10.48	10.75	118.9149
3	Chloride	3.480	1.07811	5.220	31.64	45.89	362.1355
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.523	0.03197	0.116	0.94	1.02	10.0089
5		6.450	0.02215	0.066	0.65	0.58	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.043	1.90027	4.690	55.76	41.24	907.7615
Total:			**3.408**	**11.374**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-9**	*Run Time (min):*	**11.00**
Vial Number:	**GD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 04:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

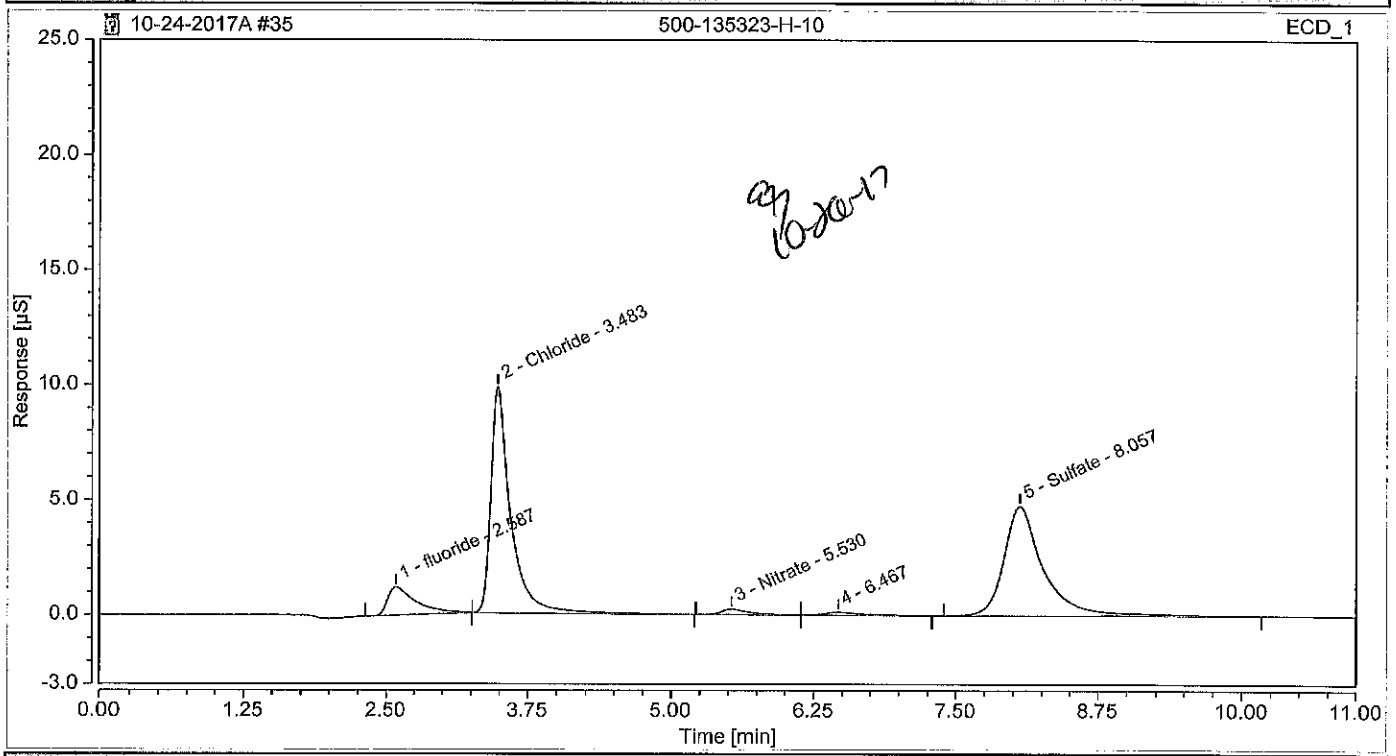
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.010	0.01124	0.039	0.67	0.71	n.a.
2	fluoride	2.580	0.17486	0.599	10.35	10.73	116.4867
3	Chloride	3.477	0.53211	2.558	31.50	45.78	368.0254
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.537	0.01743	0.057	1.03	1.02	16.1507
5		6.473	0.01216	0.035	0.72	0.62	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.047	0.94153	2.299	55.73	41.14	903.3447
Total:			**1.689**	**5.588**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-10**	*Run Time (min):*	**11.00**
Vial Number:	**GD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**25/Oct/17 04:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

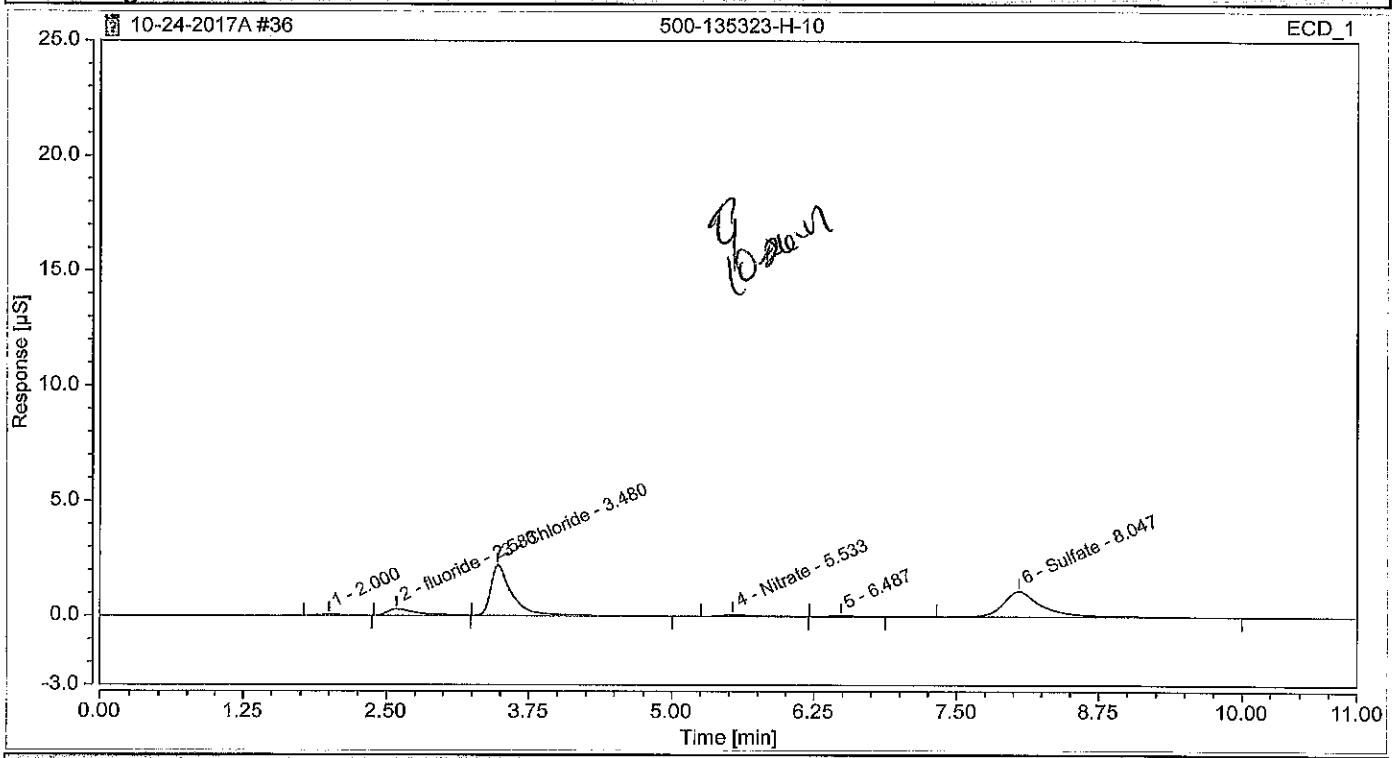
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.587	0.35882	1.221	8.20	7.55	59.7477
2	Chloride	3.483	1.99849	9.834	45.68	60.78	331.1972
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.530	0.06584	0.240	1.51	1.48	7.2557
4		6.467	0.04456	0.127	1.02	0.78	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.057	1.90681	4.757	43.59	29.41	455.4363
Total:			**4.375**	**16.179**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-10**	*Run Time (min):*	**11.00**
Vial Number:	**GD4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 05:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

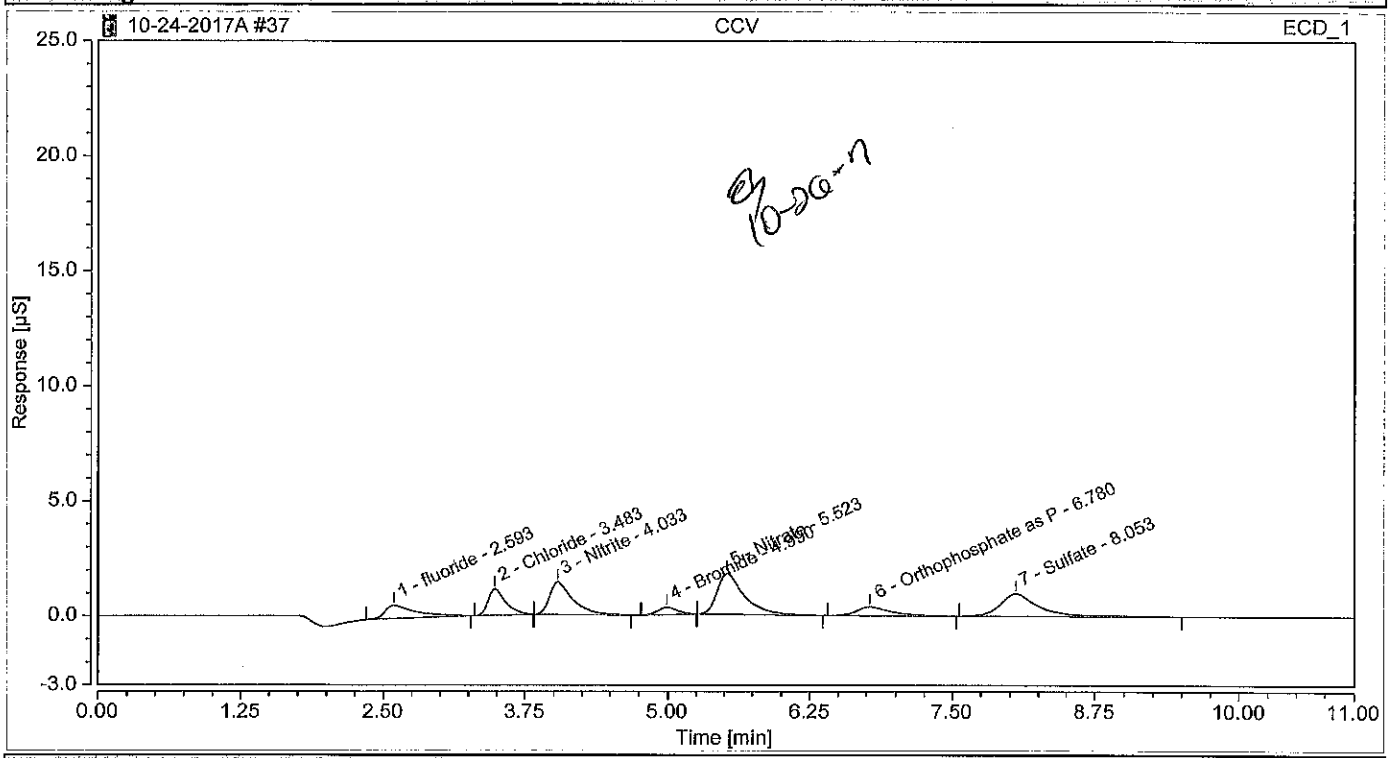
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.000	0.01335	0.042	1.27	1.13	n.a.
2	fluoride	2.583	0.08421	0.282	8.03	7.59	56.1275
3	Chloride	3.480	0.46613	2.193	44.46	59.00	324.9803
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.533	0.02065	0.069	1.97	1.85	17.0074
5		6.487	0.00850	0.029	0.81	0.78	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.047	0.45567	1.102	43.46	29.64	441.0931
Total:			**1.049**	**3.717**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 05:18**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

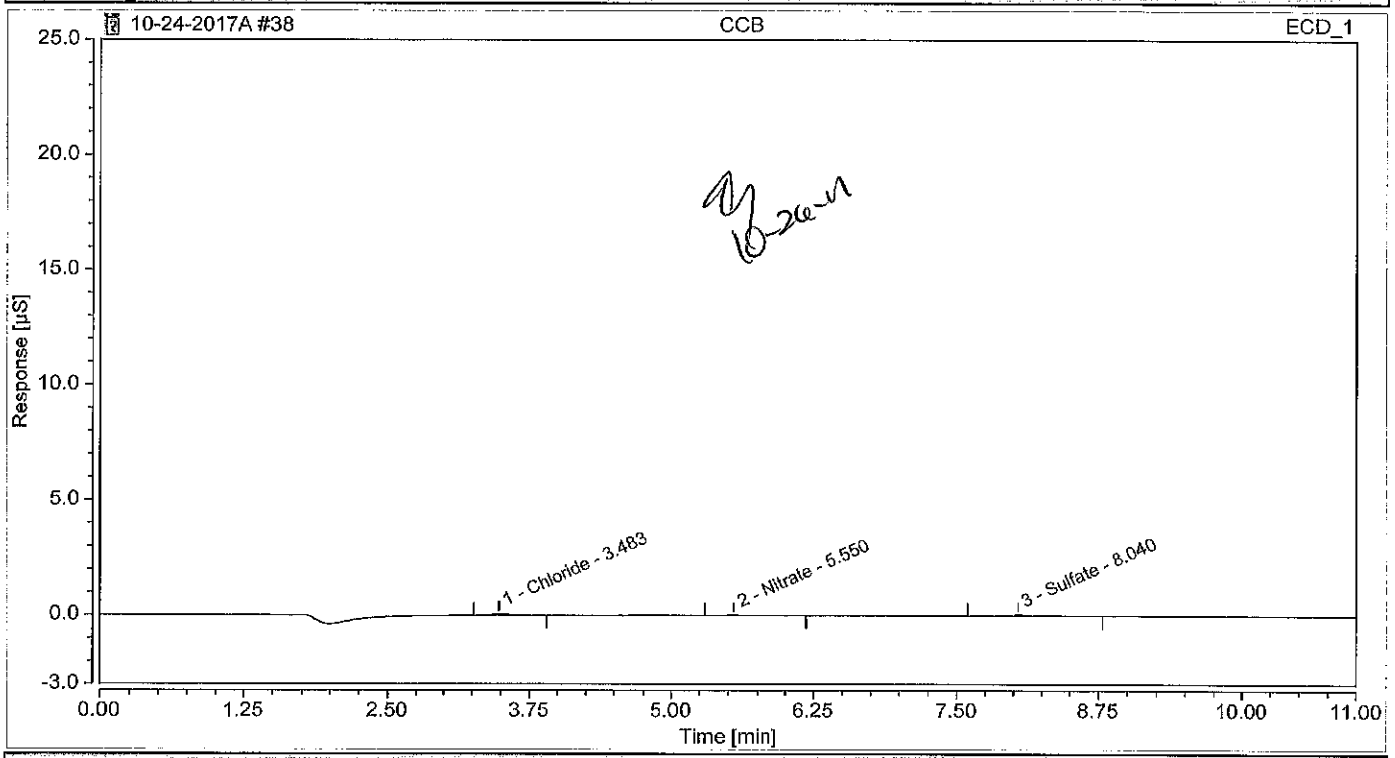
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.593	0.18129	0.563	10.16	8.58	0.6039
2	Chloride	3.483	0.20381	1.144	11.42	17.42	0.7691
3	Nitrite	4.033	0.33311	1.412	18.66	21.51	0.7248
4	Bromide	4.990	0.06149	0.312	3.44	4.75	0.5672
5	Nitrate	5.523	0.49277	1.776	27.61	27.05	0.7127
6	Orthophosphate as P	6.780	0.12986	0.380	7.28	5.79	0.7743
7	Sulfate	8.053	0.38245	0.979	21.43	14.90	1.8571
Total:			**1.785**	**6.567**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 05:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

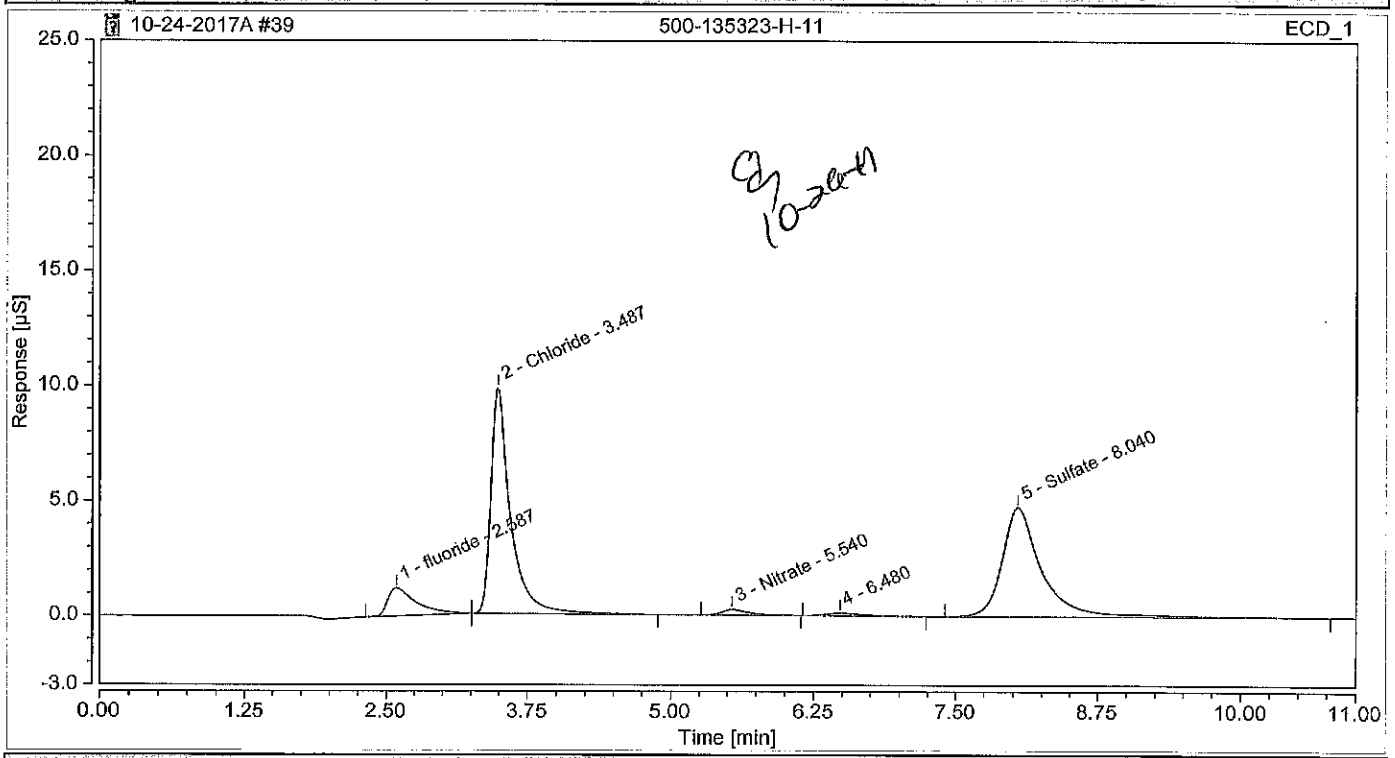
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.483	0.01452	0.072	45.22	60.37	0.1516
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.550	0.00434	0.014	13.53	11.64	0.0634
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.040	0.01324	0.033	41.25	27.99	0.1008
Total:			**0.032**	**0.120**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-11**	*Run Time (min):*	**11.00**
Vial Number:	**GD5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**25/Oct/17 05:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

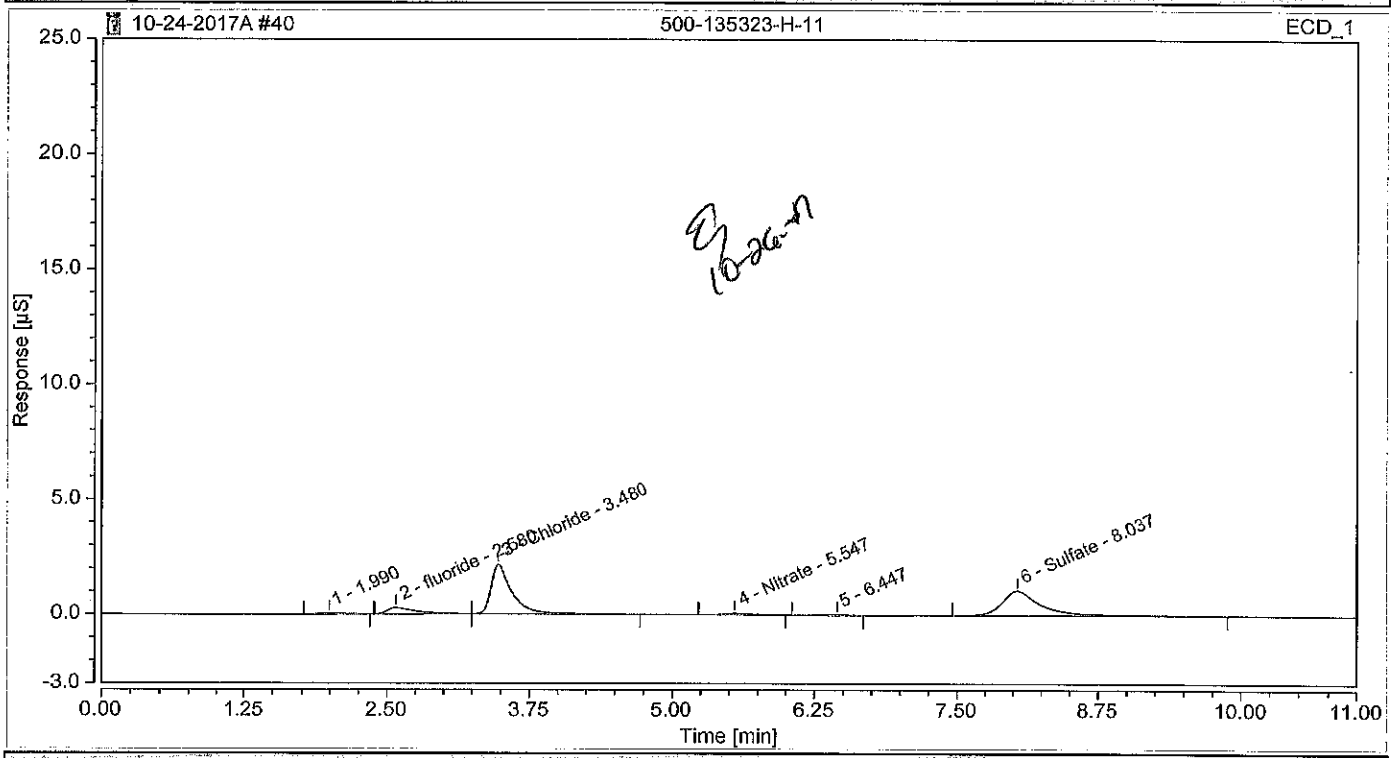
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.587	0.36004	1.218	8.22	7.53	59.9504
2	Chloride	3.487	1.98755	9.829	45.36	60.77	329.4127
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.540	0.06537	0.243	1.49	1.50	7.2248
4		6.480	0.04440	0.127	1.01	0.78	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.040	1.92441	4.758	43.92	29.42	459.6209
Total:			**4.382**	**16.175**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-11**	*Run Time (min):*	**11.00**
Vial Number:	**GD6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 05:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

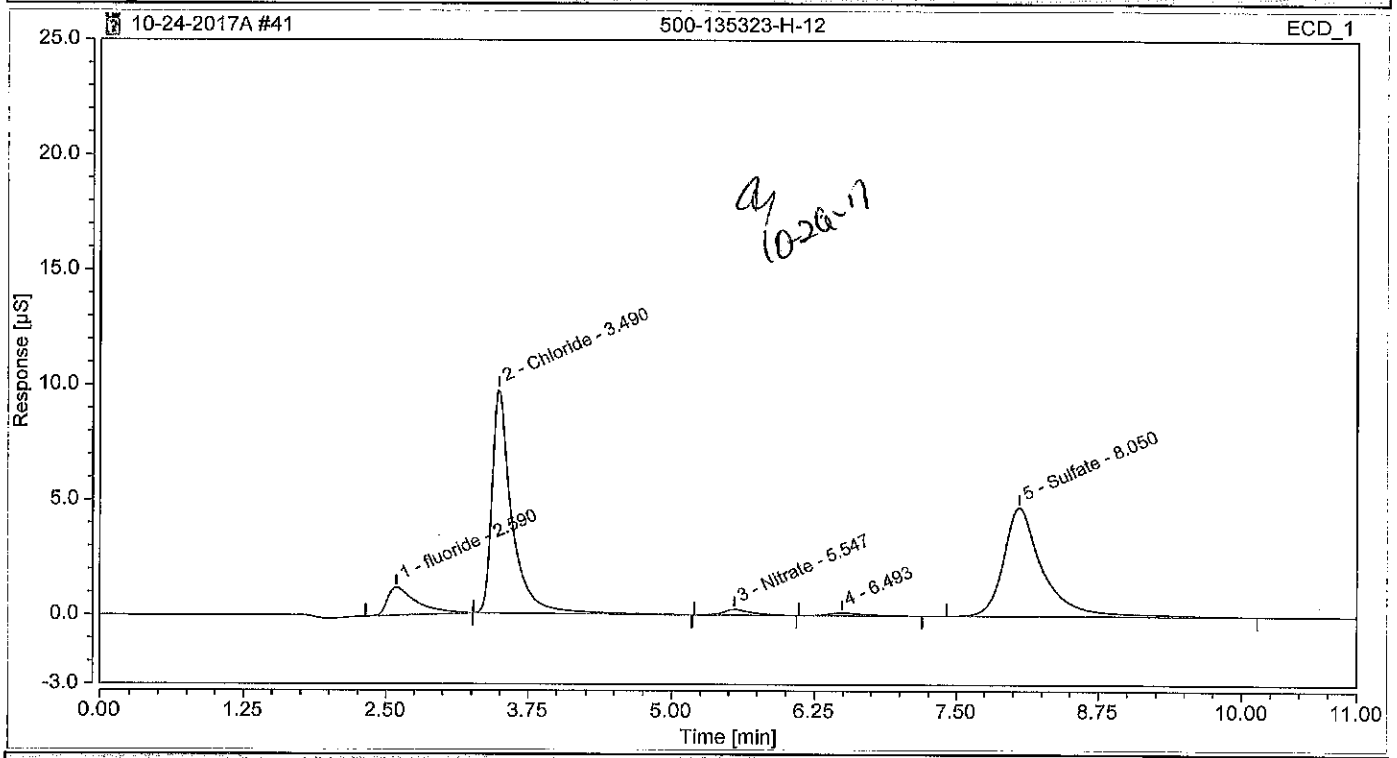
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.990	0.01245	0.044	1.23	1.21	n.a.
2	fluoride	2.580	0.07920	0.271	7.80	7.46	52.7907
3	Chloride	3.480	0.45267	2.152	44.58	59.14	316.1967
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.547	0.01547	0.056	1.52	1.55	15.6294
5		6.447	0.00831	0.038	0.82	1.04	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.037	0.44724	1.077	44.05	29.61	433.0686
Total:			**1.015**	**3.638**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-12**	*Run Time (min):*	**11.00**
Vial Number:	**GD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**25/Oct/17 06:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

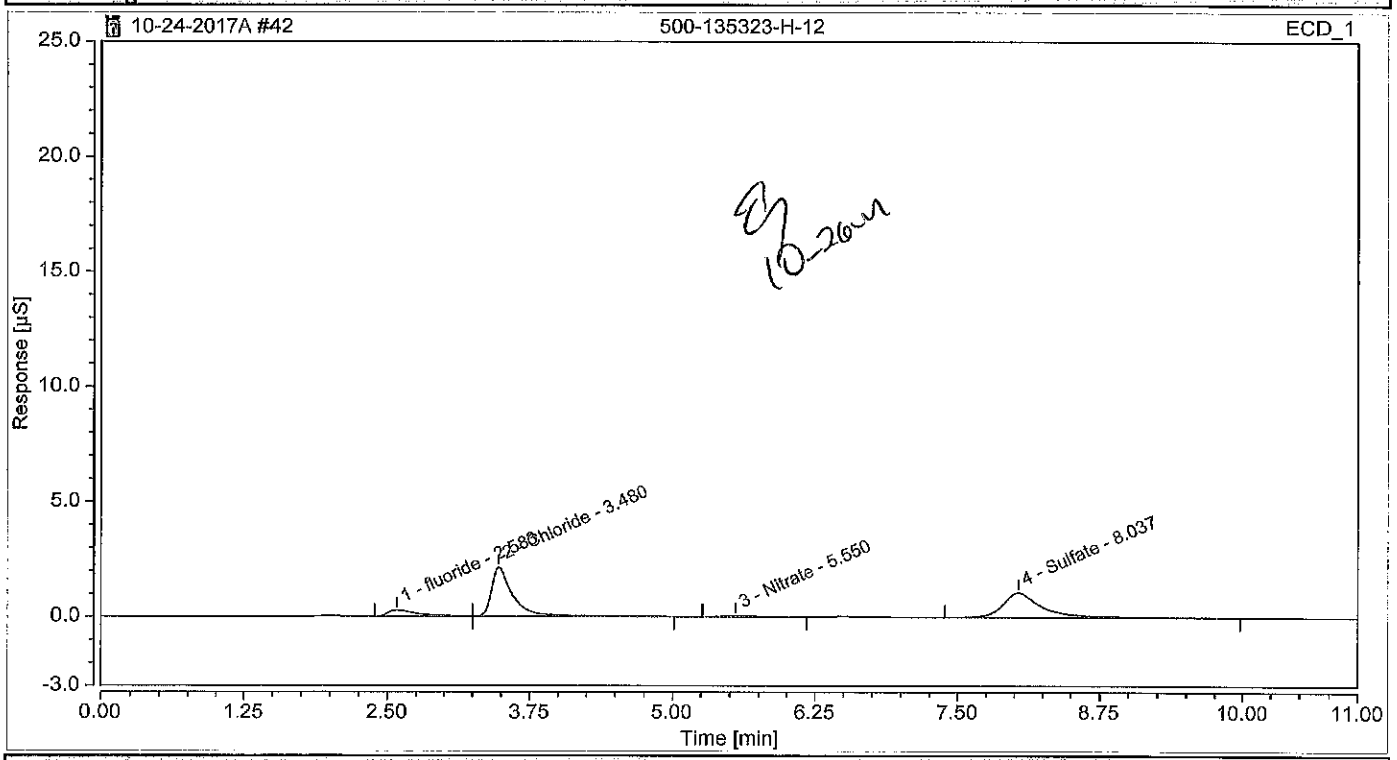
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.590	0.35926	1.210	8.26	7.54	59.8211
2	Chloride	3.490	1.98118	9.727	45.57	60.67	328.3745
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.547	0.06864	0.242	1.58	1.51	7.4422
4		6.493	0.04717	0.127	1.09	0.79	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.050	1.89137	4.727	43.50	29.49	451.7632
Total:			**4.348**	**16.033**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135323-H-12**	*Run Time (min):*	**11.00**
Vial Number:	**GD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 06:19**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

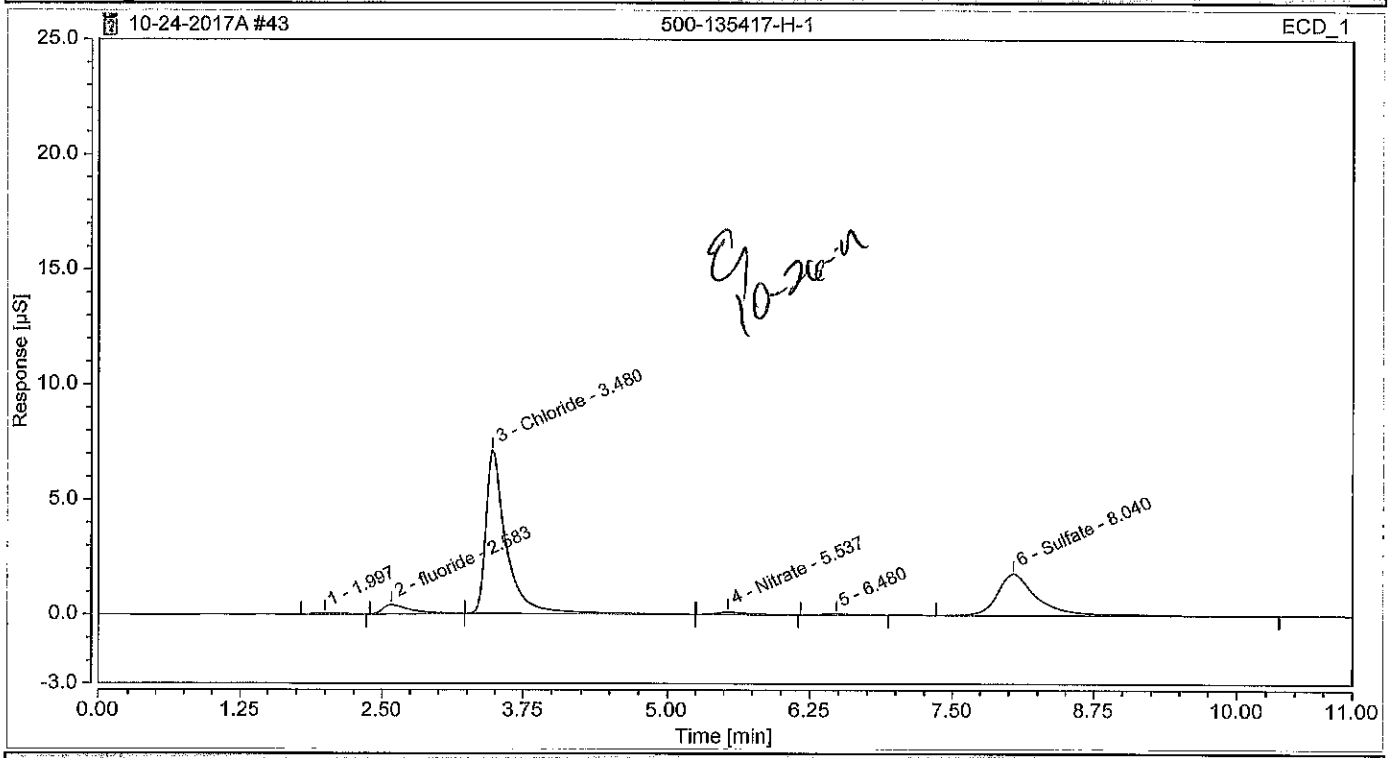
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.583	0.07889	0.267	7.97	7.60	52.5843
2	Chloride	3.480	0.45678	2.132	46.13	60.56	318.8788
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.550	0.01512	0.055	1.53	1.56	15.5348
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.037	0.43946	1.067	44.38	30.29	425.6638
Total:			**0.990**	**3.521**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-1**	*Run Time (min):*	**11.00**
Vial Number:	**GE1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 06:32**	*Sample Weight:*	**1.0000**

Chromatogram



10-26-17

Integration Results

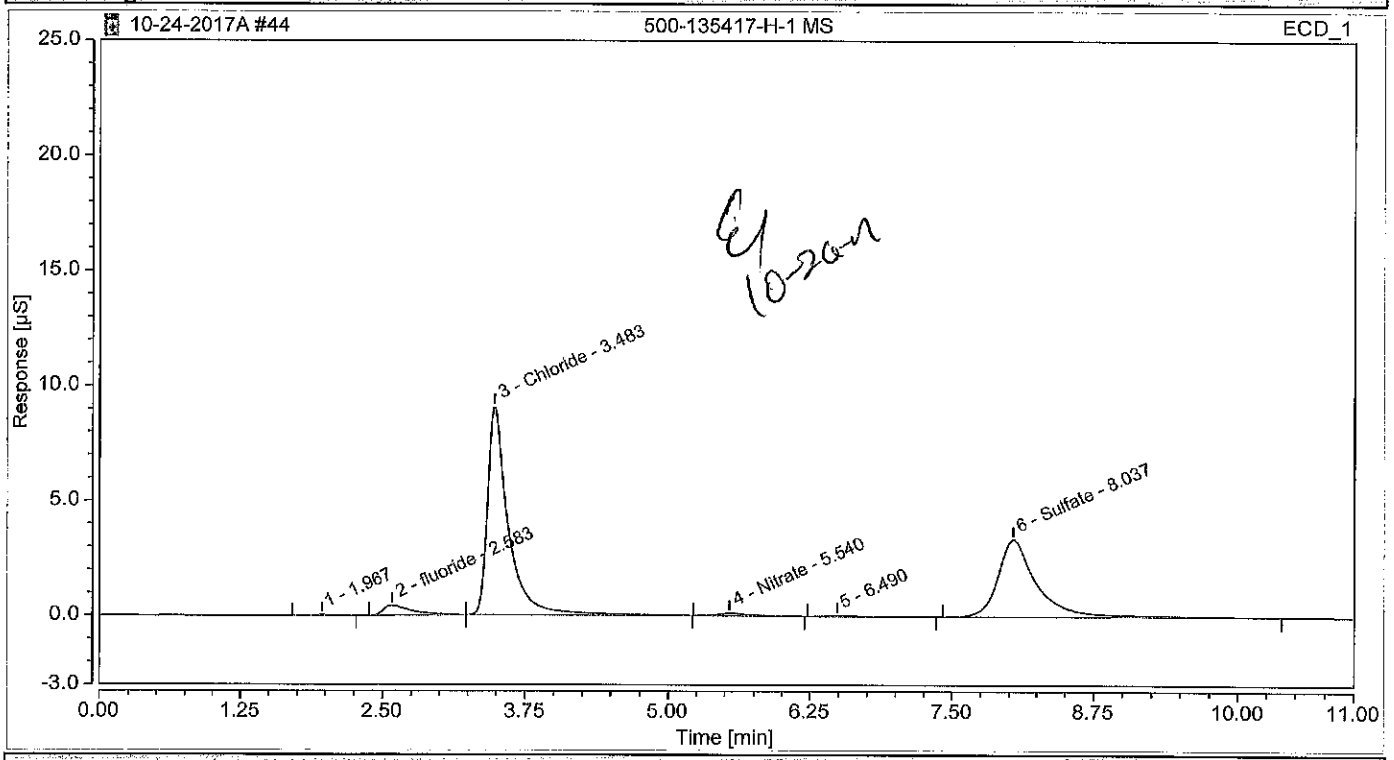
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.997	0.01365	0.046	0.57	0.48	n.a.
2	fluoride	2.583	0.11578	0.402	4.83	4.23	77.1453
3	Chloride	3.480	1.48261	7.084	61.82	74.69	988.1943
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.537	0.02860	0.099	1.19	1.05	19.1211
5		6.480	0.01294	0.040	0.54	0.42	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.040	0.74468	1.814	31.05	19.12	716.0572
Total:			**2.398**	**9.486**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-1 MS**	*Run Time (min):*	**11.00**
Vial Number:	**GE2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 06:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

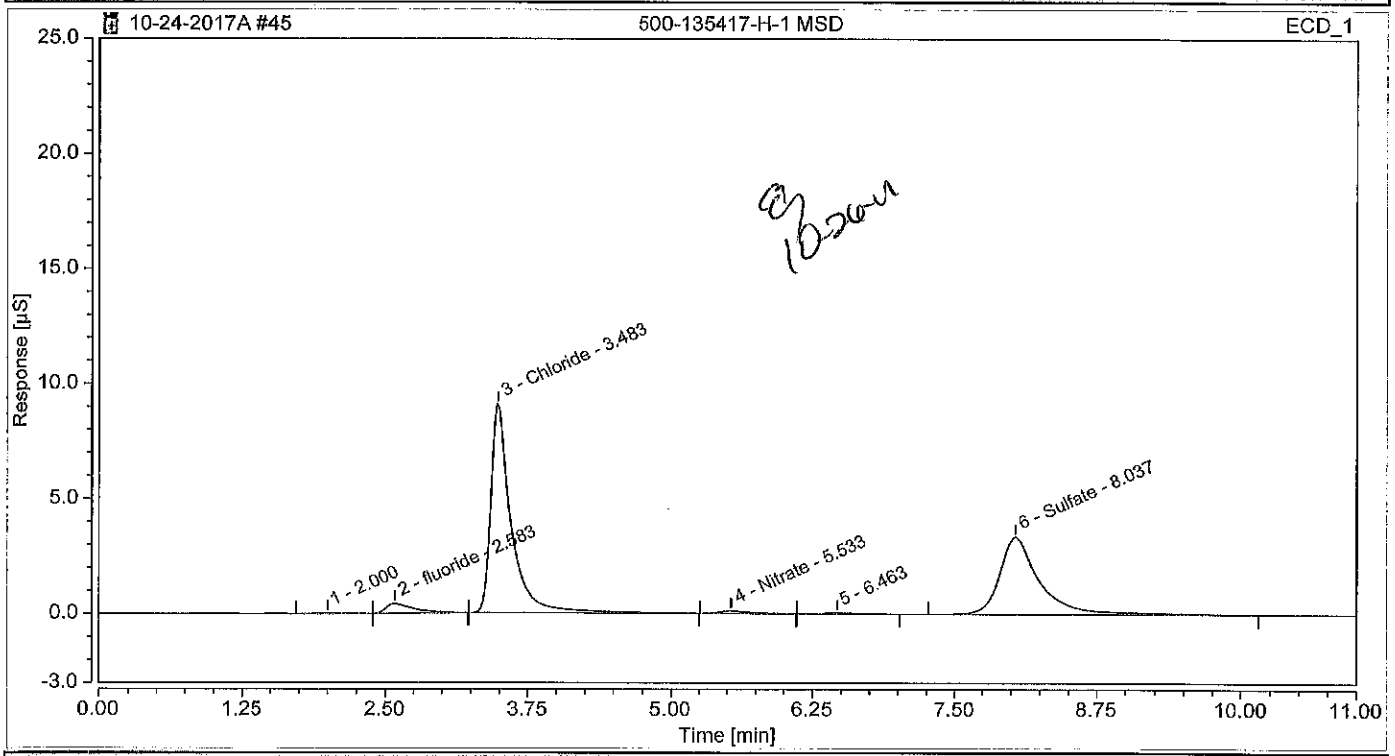
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.967	0.00656	0.026	0.19	0.20	n.a.
2	fluoride	2.583	0.12410	0.425	3.60	3.27	82.6855
3	Chloride	3.483	1.89374	9.060	55.01	69.59	1256.4445
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.540	0.03237	0.109	0.94	0.84	20.1221
5		6.490	0.01348	0.040	0.39	0.31	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.037	1.37210	3.359	39.86	25.80	1313.0001
Total:			**3.442**	**13.019**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-1 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**GE3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 06:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

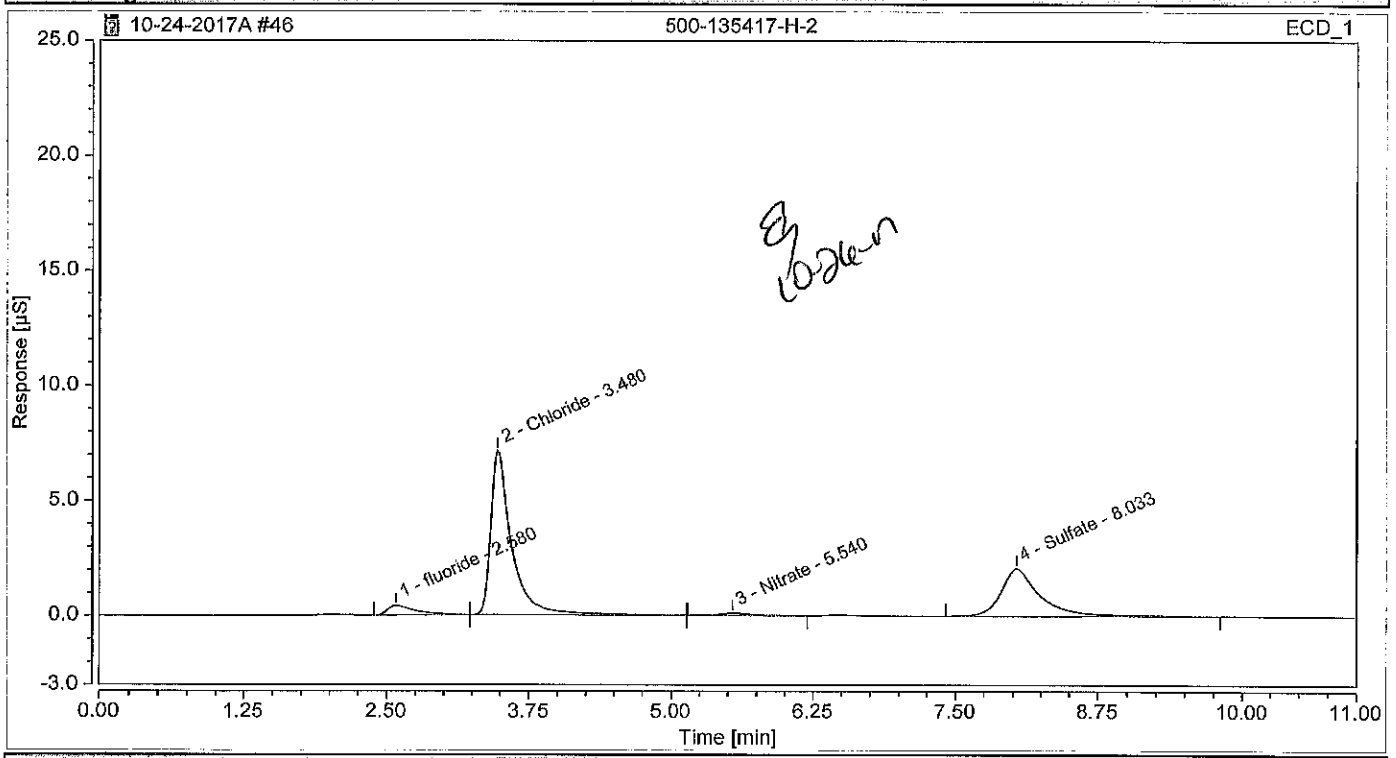
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.000	0.01057	0.031	0.31	0.24	n.a.
2	fluoride	2.583	0.12146	0.418	3.53	3.21	80.9337
3	Chloride	3.483	1.89476	9.063	55.05	69.60	1257.1090
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.533	0.02911	0.108	0.85	0.83	19.2554
5		6.463	0.01294	0.041	0.38	0.31	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.037	1.37302	3.362	39.89	25.82	1313.8774
Total:			**3.442**	**13.022**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-2**	*Run Time (min):*	**11.00**
Vial Number:	**GE4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 07:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

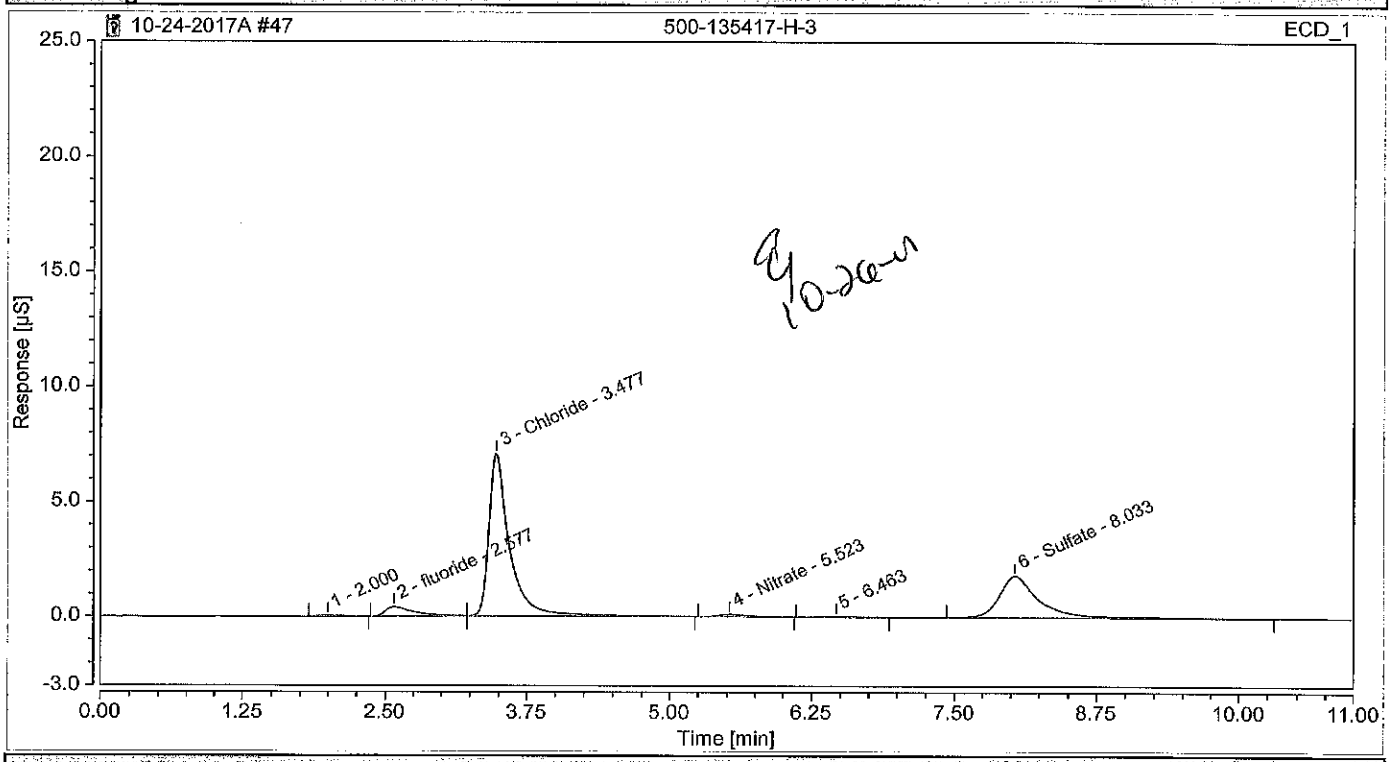
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.580	0.11928	0.409	4.78	4.21	79.4764
2	Chloride	3.480	1.50390	7.140	60.26	73.48	1002.0865
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.540	0.02890	0.102	1.16	1.05	19.2013
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.033	0.84360	2.066	33.80	21.26	810.1730
Total:			**2.496**	**9.717**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-3**	*Run Time (min):*	**11.00**
Vial Number:	**GE5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 07:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

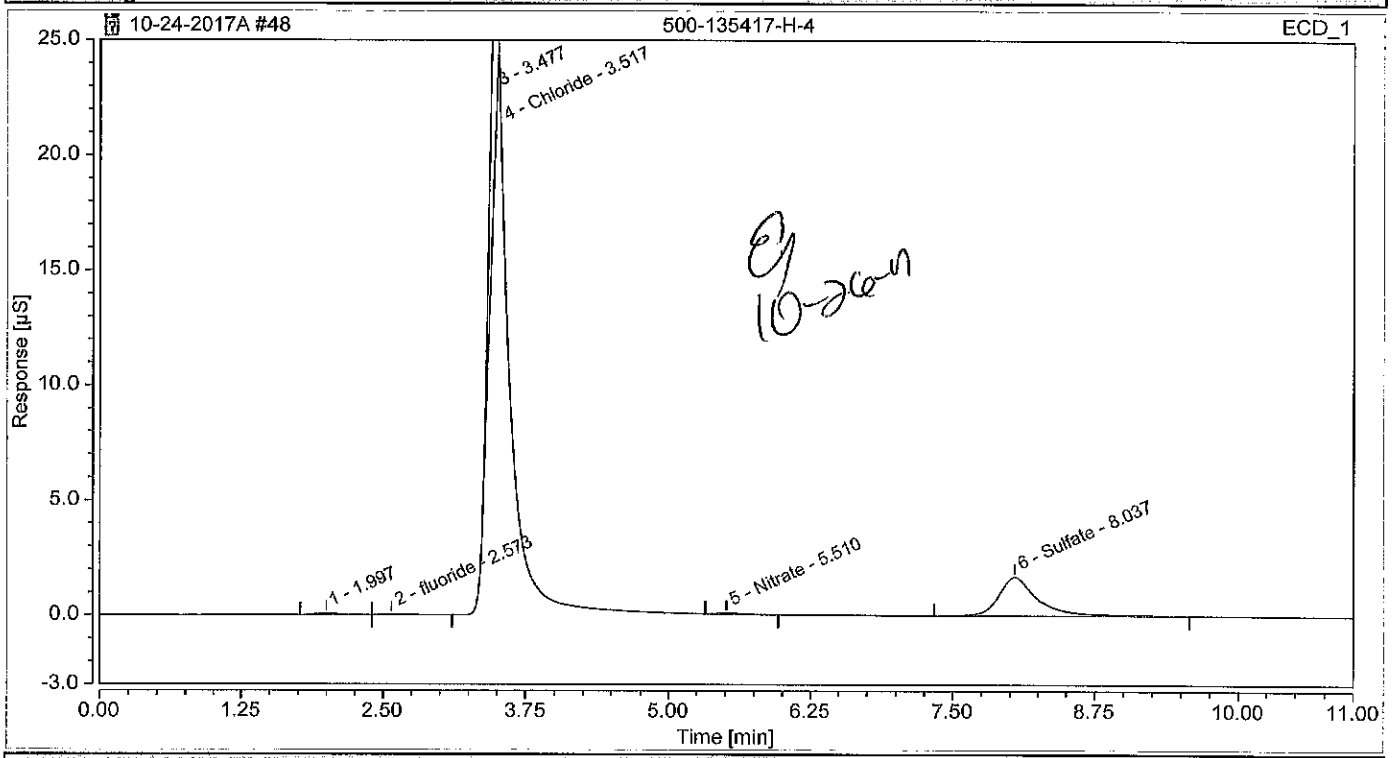
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.000	0.01077	0.038	0.45	0.40	n.a.
2	fluoride	2.577	0.11706	0.404	4.88	4.27	78.0035
3	Chloride	3.477	1.48393	7.053	61.91	74.69	989.0581
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.523	0.02789	0.103	1.16	1.09	18.9307
5		6.463	0.01287	0.038	0.54	0.40	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.033	0.74429	1.807	31.05	19.14	715.6901
Total:			**2.397**	**9.443**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-4**	*Run Time (min):*	**11.00**
Vial Number:	**GE6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 07:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

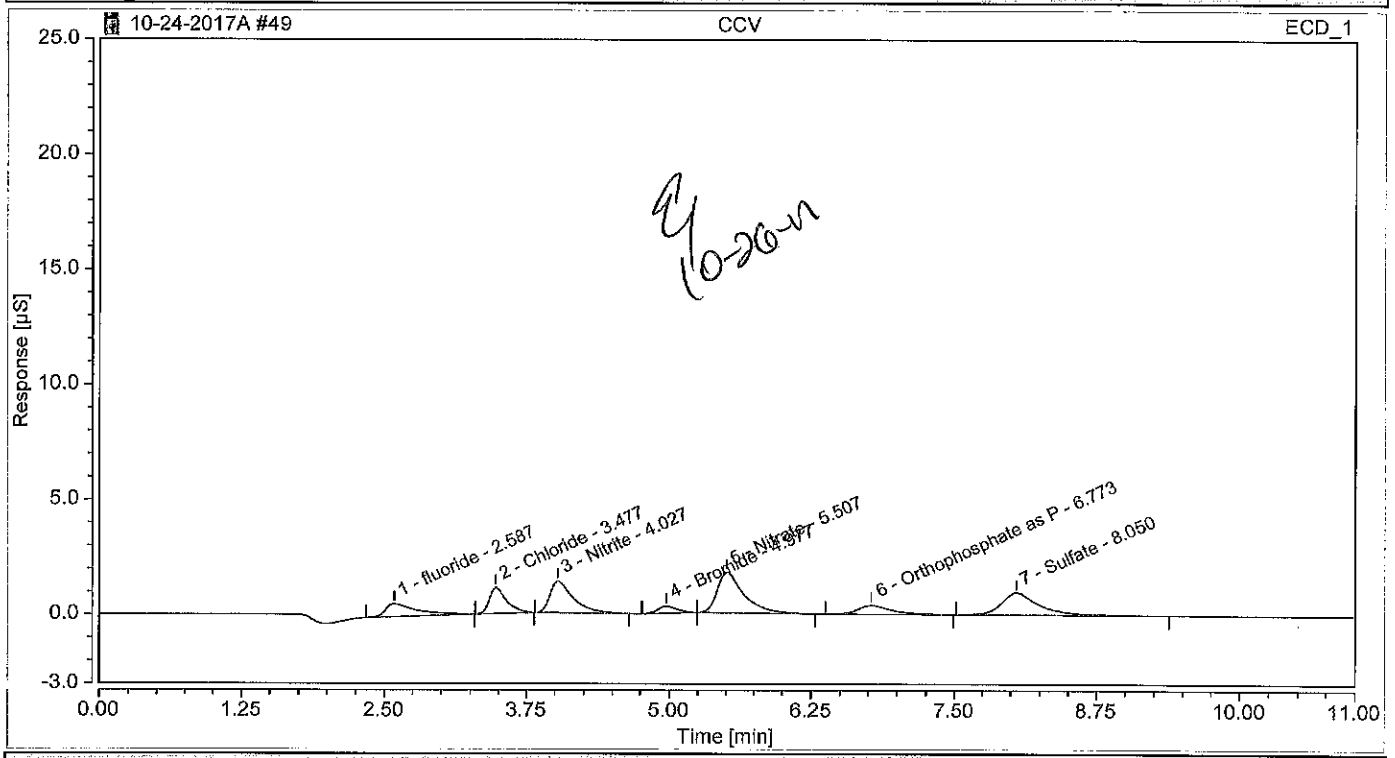
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.997	0.01702	0.054	1.26	0.57	n.a.
2	fluoride	2.573	0.00819	0.031	0.60	0.33	5.5010
3		3.477	0.62926	7.256	46.48	76.69	n.a.
4	Chloride	3.517	0.00263	0.389	0.19	4.12	22.5616
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	5.510	0.01224	0.046	0.90	0.49	14.7696
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.037	0.68456	1.685	50.56	17.81	658.8587
Total:			**1.354**	**9.462**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 07:46**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

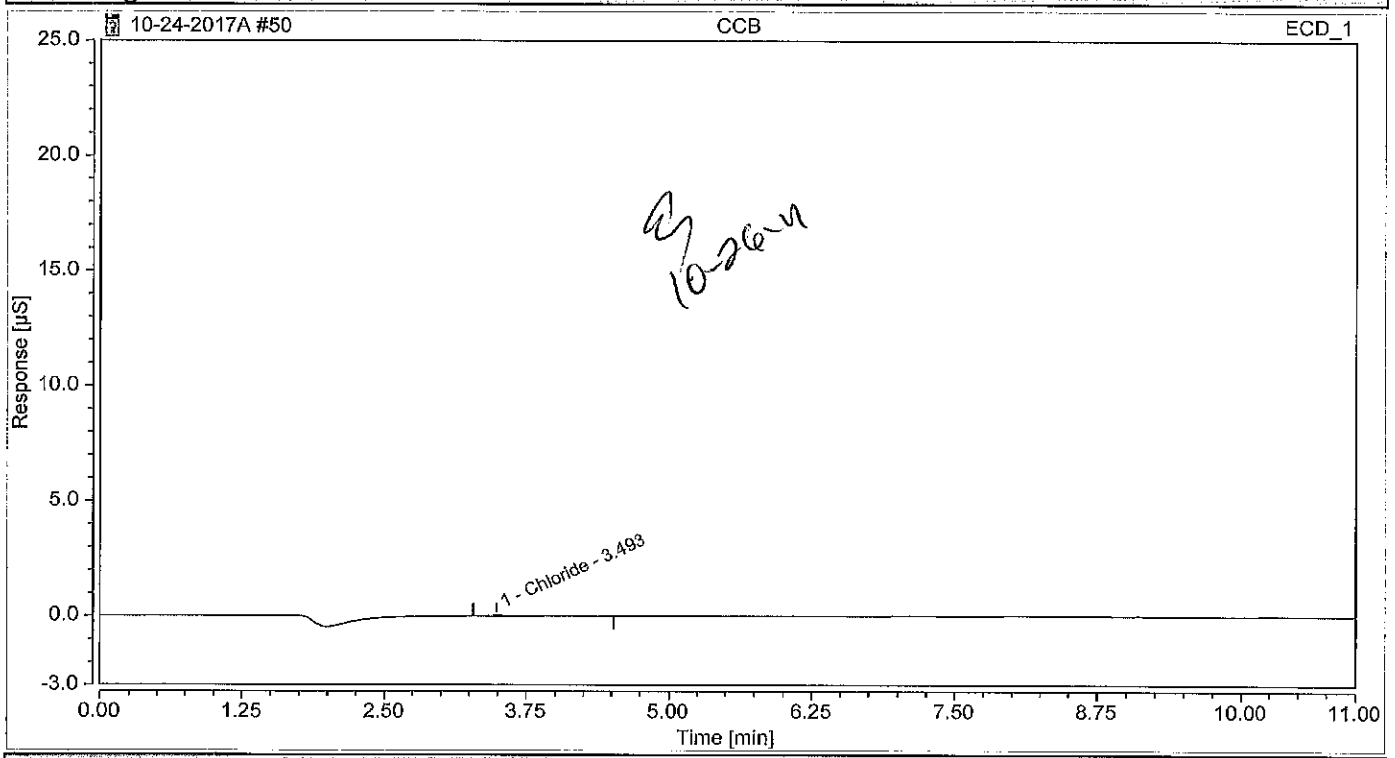
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.587	0.17913	0.555	10.16	8.54	0.5967
2	Chloride	3.477	0.20127	1.128	11.42	17.37	0.7608
3	Nitrite	4.027	0.33013	1.389	18.73	21.39	0.7195
4	Bromide	4.977	0.06082	0.308	3.45	4.74	0.5614
5	Nitrate	5.507	0.49164	1.768	27.89	27.24	0.7112
6	Orthophosphate as P	6.773	0.13065	0.383	7.41	5.90	0.7783
7	Sulfate	8.050	0.36918	0.961	20.94	14.81	1.7940
Total:			**1.763**	**6.491**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 07:58**	*Sample Weight:*	**1.0000**

Chromatogram



10-26-17

Integration Results

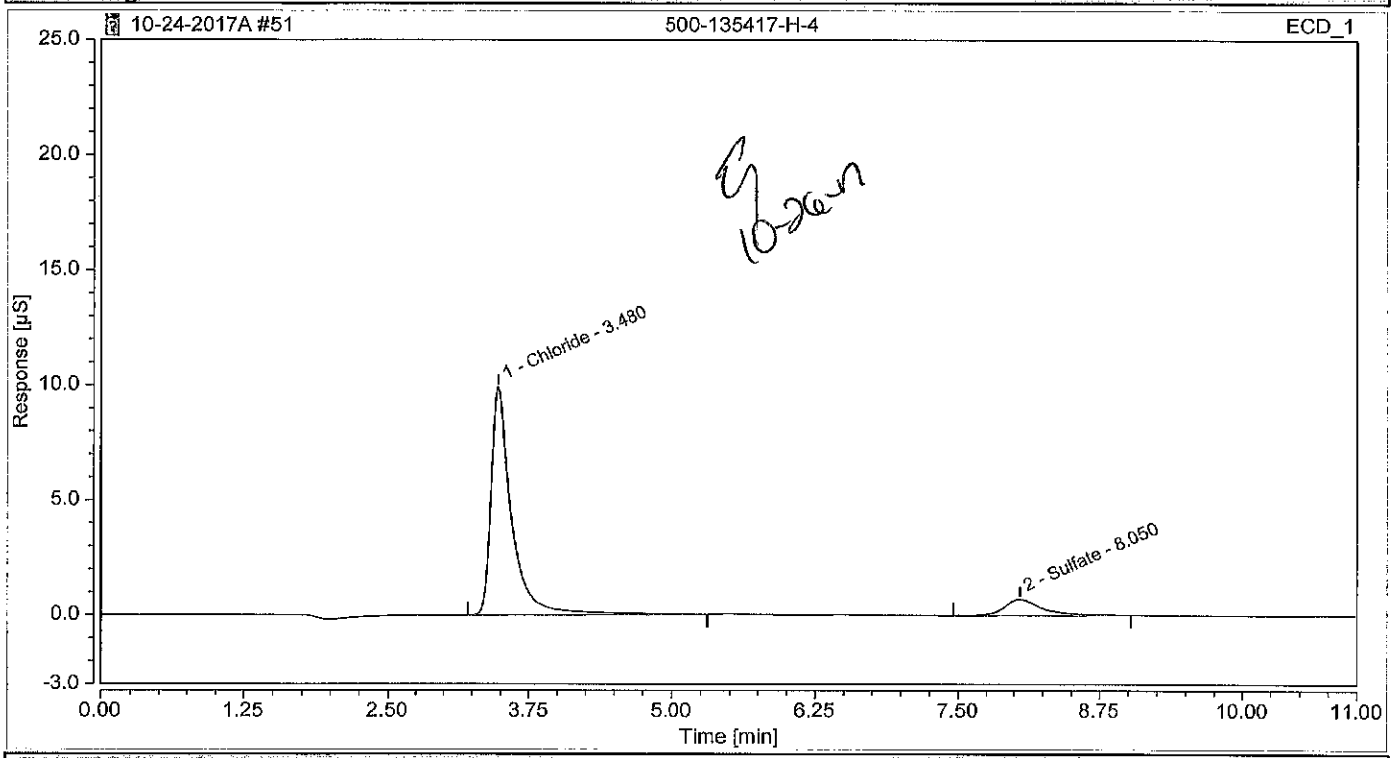
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.493	0.01277	0.030	100.00	100.00	0.1459
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.013**	**0.030**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-4**	*Run Time (min):*	**11.00**
Vial Number:	**GE7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**25/Oct/17 08:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

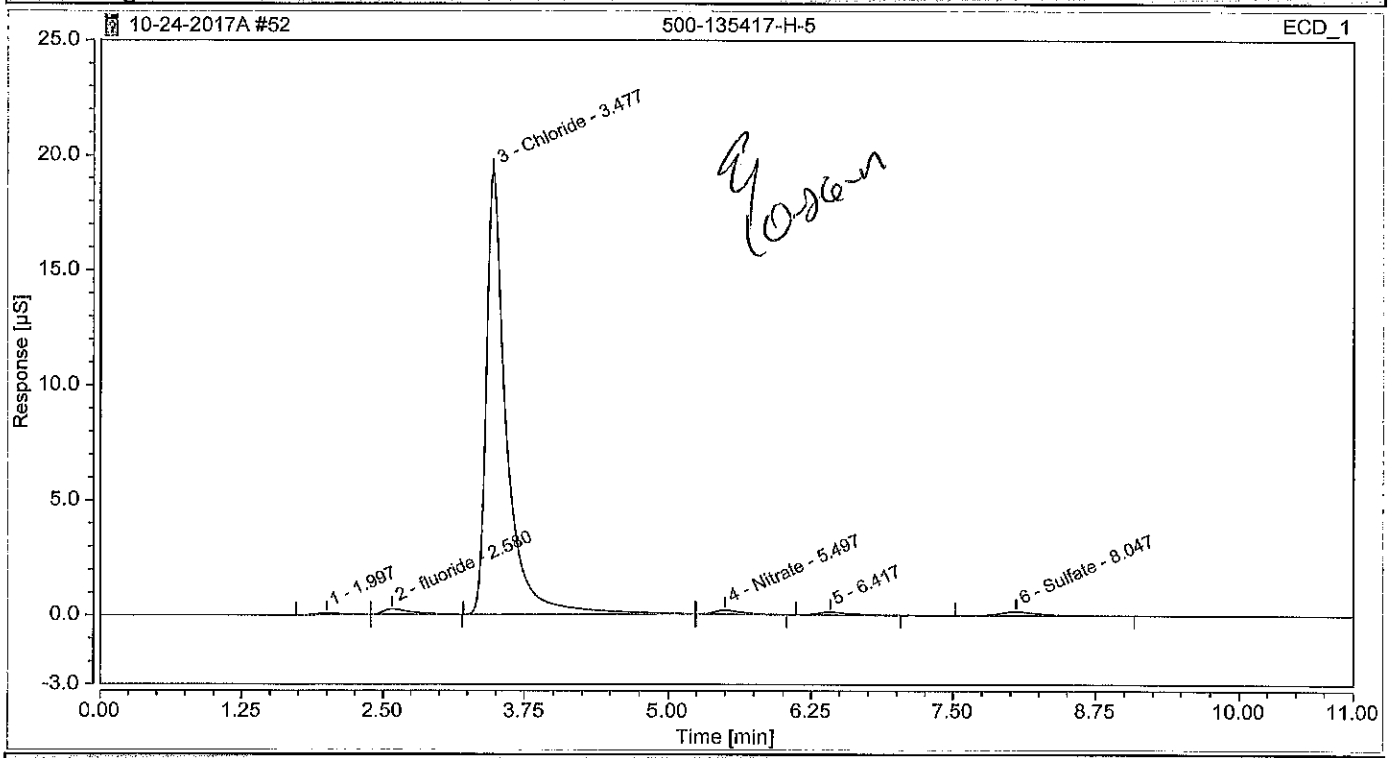
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.480	2.05530	9.905	88.44	93.42	3404.6393
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	8.050	0.26856	0.697	11.56	6.58	657.6727
Total:			**2.324**	**10.602**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-5**	*Run Time (min):*	**11.00**
Vial Number:	**GE8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 08:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

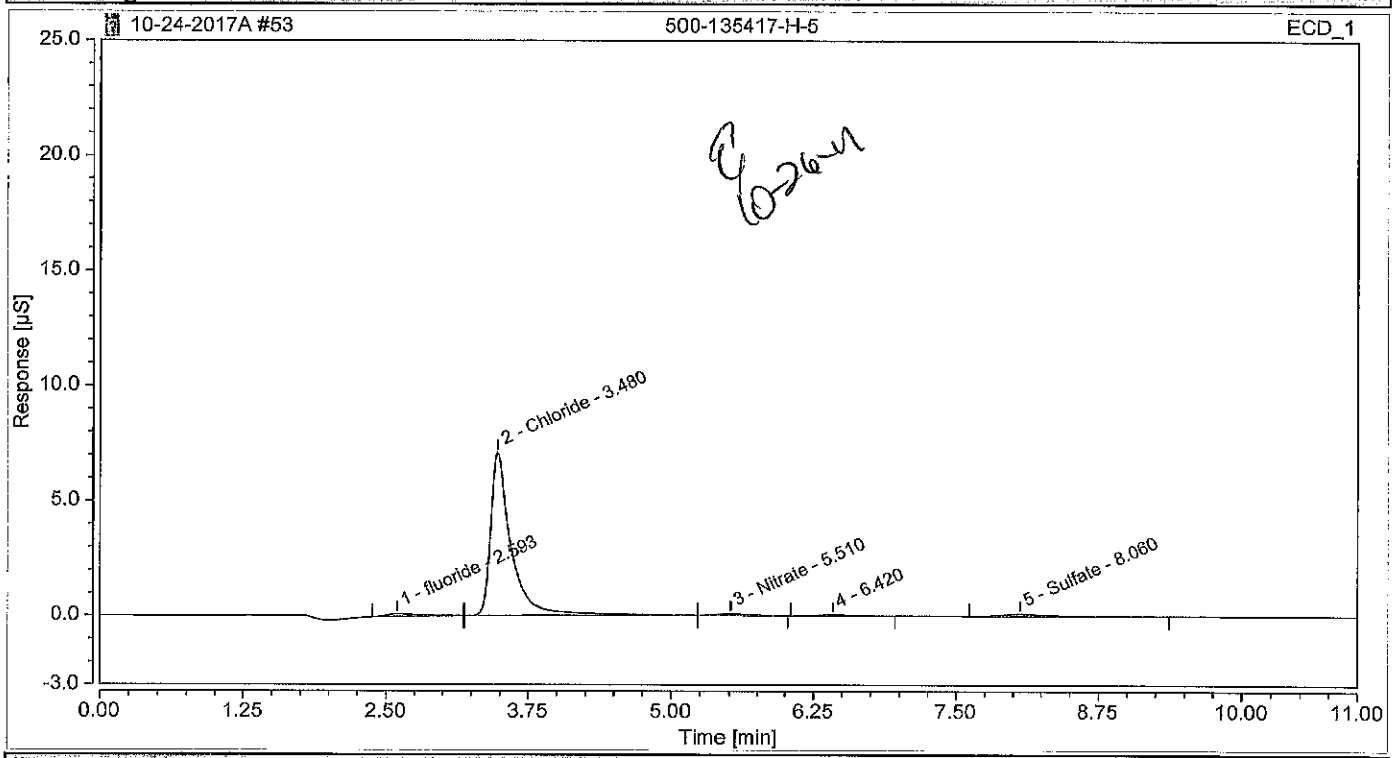
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		1.997	0.01992	0.064	0.48	0.32	n.a.
2	fluoride	2.580	0.06825	0.237	1.63	1.18	45.4956
3	Chloride	3.477	3.94821	19.264	94.25	96.14	2596.9217
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.497	0.04757	0.177	1.14	0.88	24.1636
5		6.417	0.04126	0.126	0.99	0.63	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.047	0.06399	0.170	1.53	0.85	68.4373
Total:			**4.189**	**20.037**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135417-H-5**	*Run Time (min):*	**11.00**
Vial Number:	**BE2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**25/Oct/17 08:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

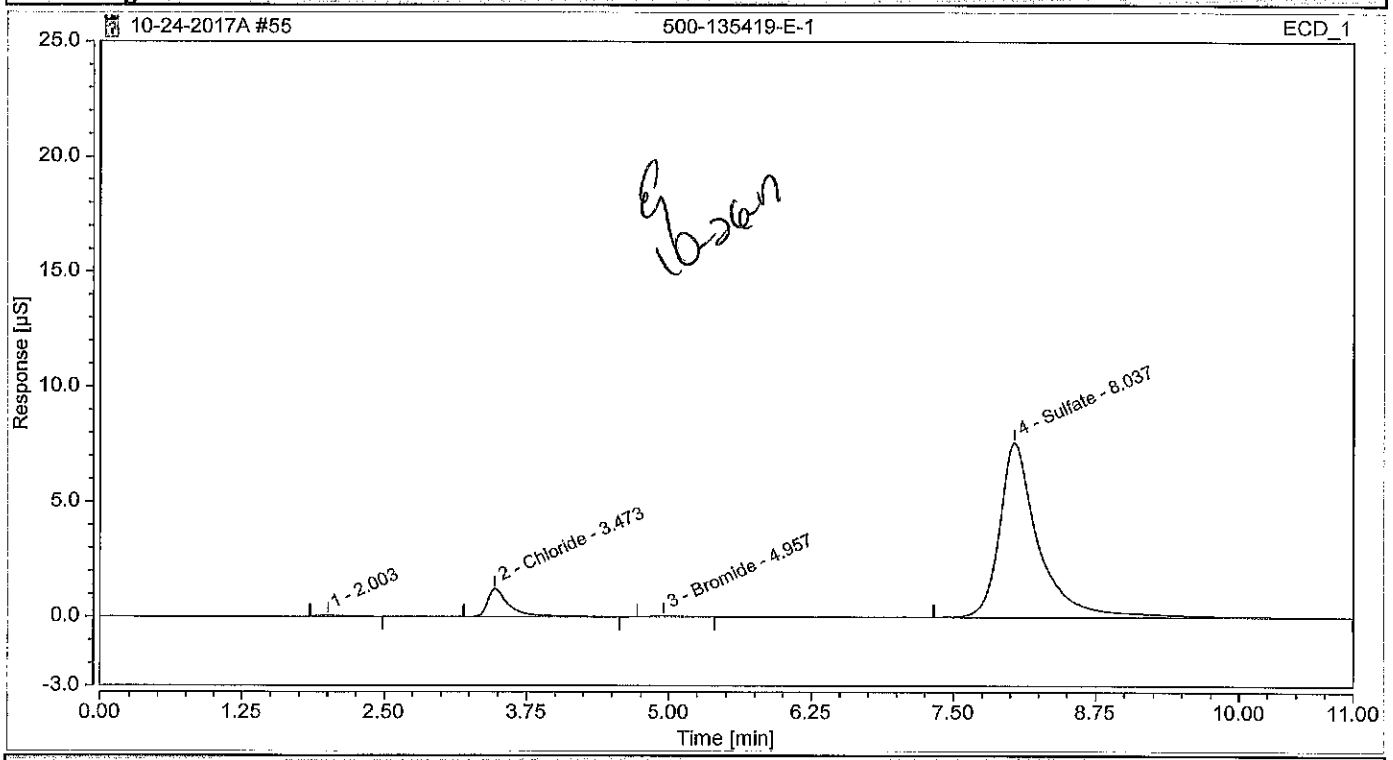
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.593	0.03678	0.114	2.30	1.54	61.3610
2	Chloride	3.480	1.48308	7.091	92.68	95.48	2471.2647
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.510	0.02037	0.076	1.27	1.02	42.3312
4		6.420	0.01422	0.044	0.89	0.60	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.060	0.04582	0.101	2.86	1.36	127.8550
Total:			**1.600**	**7.426**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135419-E-1**	*Run Time (min):*	**11.00**
Vial Number:	**BE4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**25/Oct/17 09:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

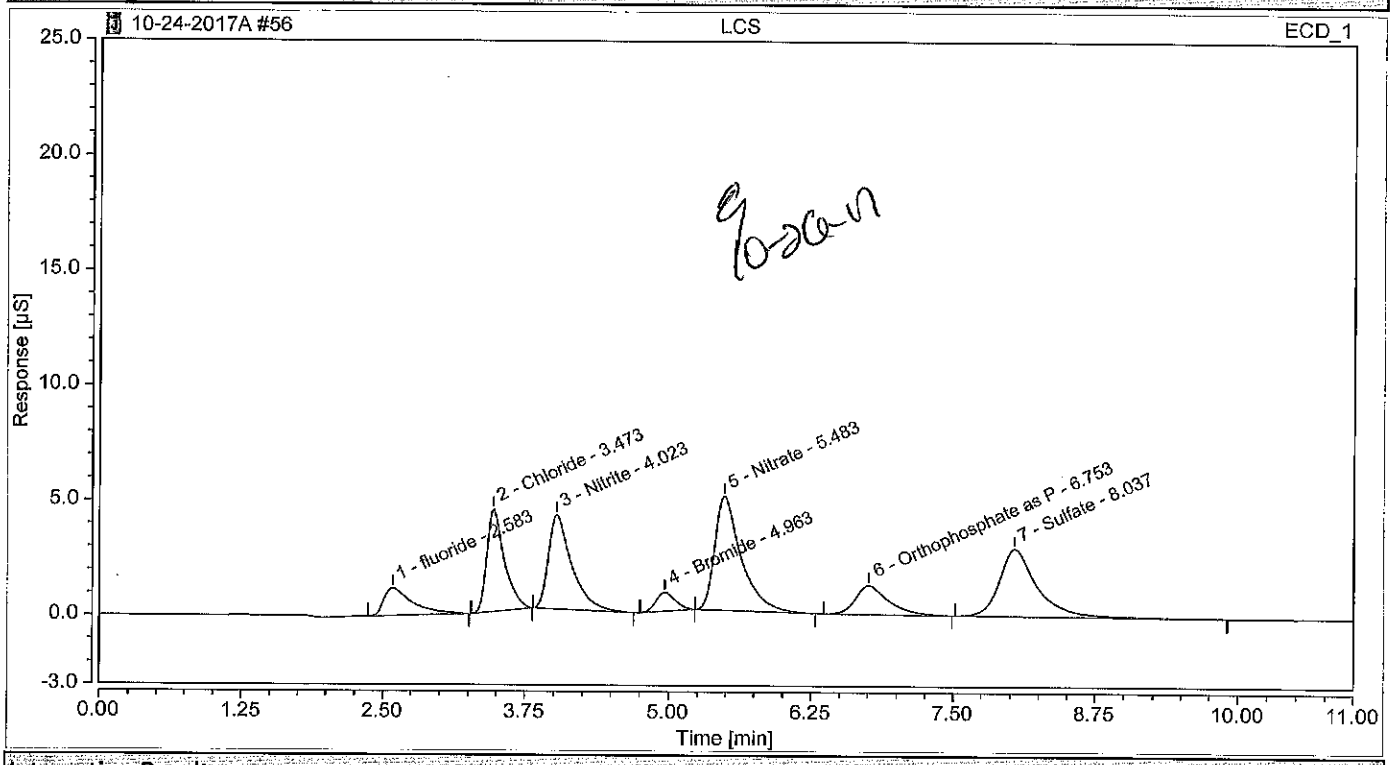
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.003	0.01331	0.043	0.39	0.49	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.473	0.26679	1.219	7.90	13.69	194.9172
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	4.957	0.01084	0.047	0.32	0.53	25.2320
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.037	3.08730	7.599	91.39	85.30	2944.8912
Total:			**3.378**	**8.908**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**11.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 09:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

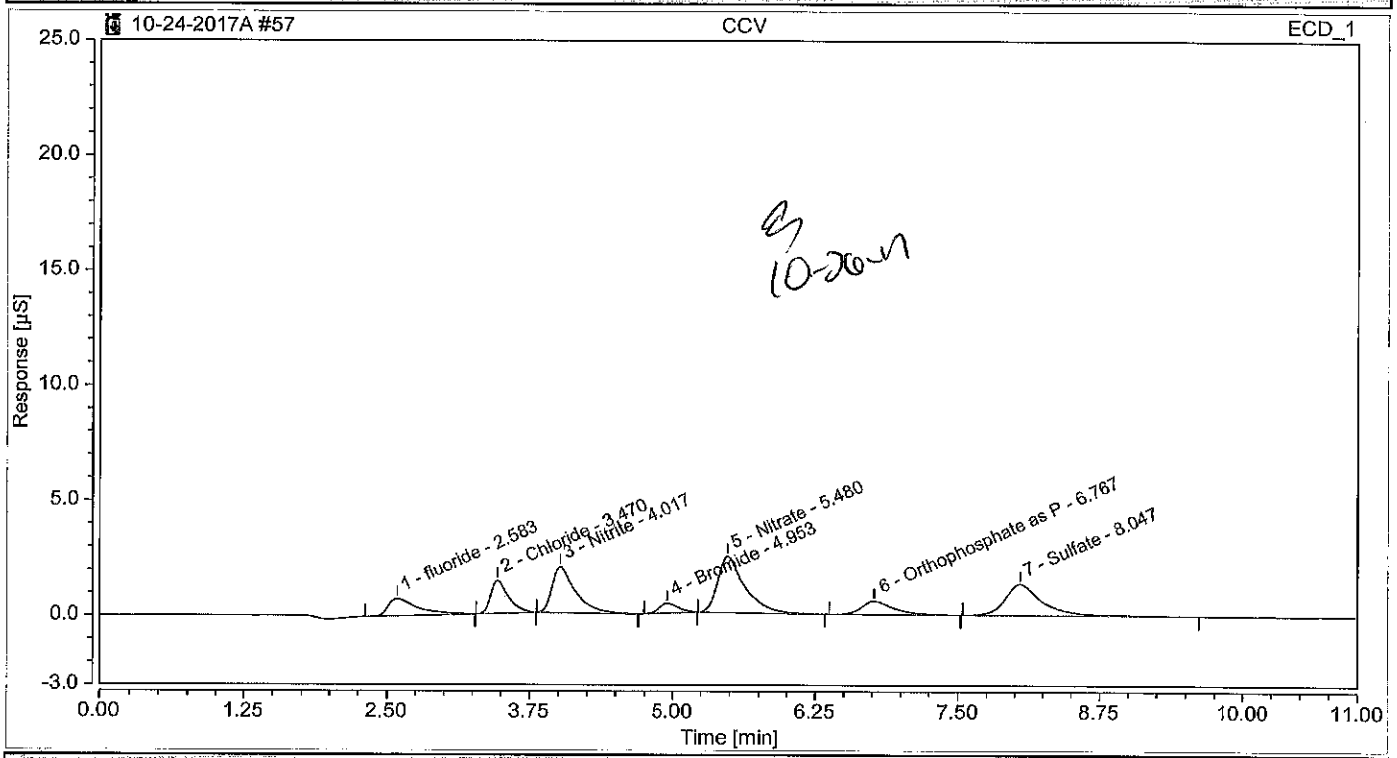
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.583	0.35095	1.195	6.77	6.07	1.1687
2	Chloride	3.473	0.80037	4.436	15.44	22.52	2.7153
3	Nitrite	4.023	0.96776	4.098	18.67	20.80	1.8614
4	Bromide	4.963	0.16028	0.820	3.09	4.16	1.4275
5	Nitrate	5.483	1.34748	4.963	26.00	25.19	1.8491
6	Orthophosphate as P	6.753	0.42354	1.258	8.17	6.39	2.2580
7	Sulfate	8.037	1.13236	2.929	21.85	14.87	5.4245
Total:			**5.183**	**19.699**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 09:25**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

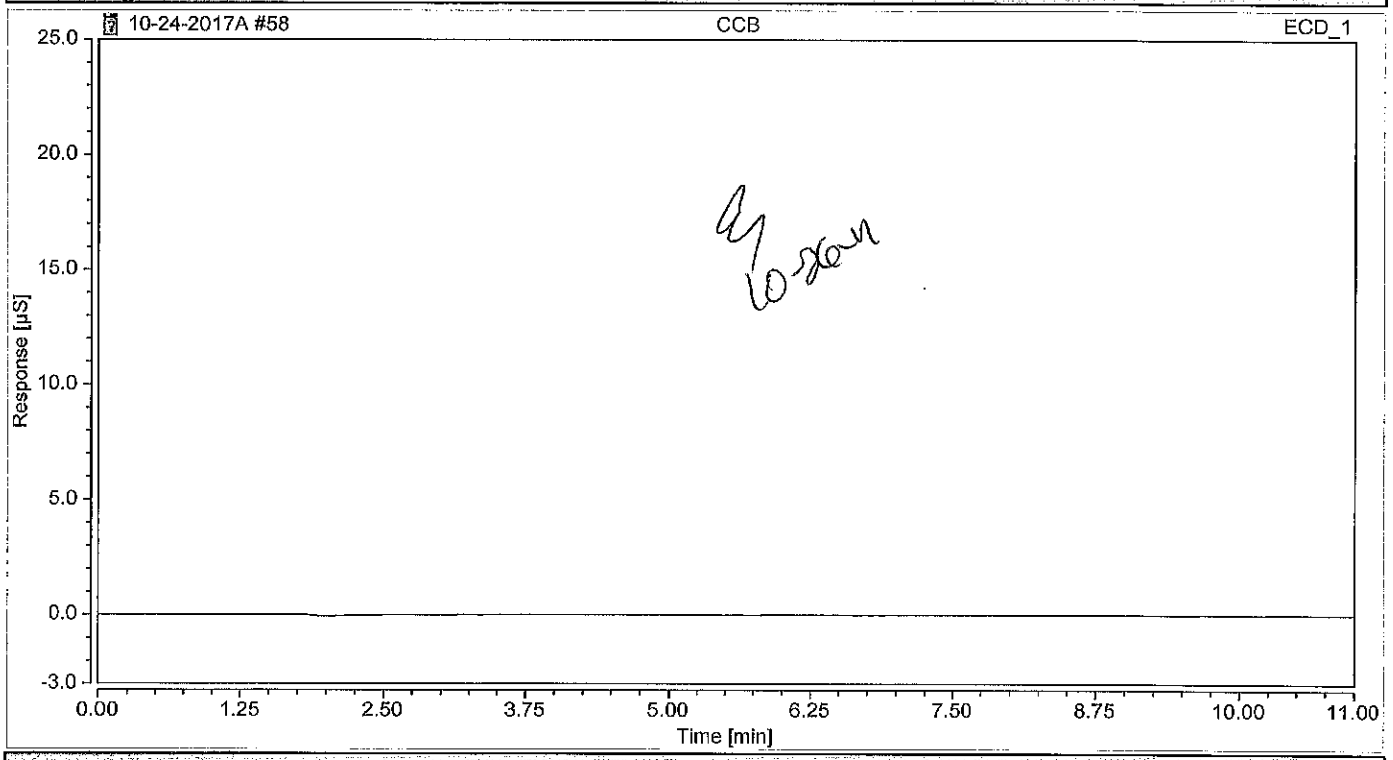
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.583	0.22493	0.741	9.25	8.25	0.7491
2	Chloride	3.470	0.25647	1.429	10.54	15.92	0.9409
3	Nitrite	4.017	0.47277	1.999	19.44	22.26	0.9749
4	Bromide	4.953	0.08259	0.421	3.40	4.69	0.7510
5	Nitrate	5.480	0.66939	2.443	27.52	27.21	0.9476
6	Orthophosphate as P	6.767	0.19695	0.581	8.10	6.48	1.1132
7	Sulfate	8.047	0.52949	1.365	21.77	15.20	2.5566
Total:			**2.433**	**8.979**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**25/Oct/17 09:37**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00016	WSTICCL2_00016	WSTICN031_00007	WSTICNO32_00014
ICV~500-406966/1		9056A		100 mL	100 mL		300 uL		200 uL
ICB~500-406966/2		9056A							
MB~500-406966/3 /LCS		9056A							
500-136132-L-1	OMW1D-GW-102317	9056A	T						
500-136132-L-1	OMW1D-GW-102317	9056A	T						
500-136132-L-1~MS		9056A	T	100 mL	100 mL		100 uL		100 uL
500-136132-L-1~MS D		9056A	T	100 mL	100 mL		100 uL		100 uL
500-136132-L-1~MS		9056A	T	100 mL	100 mL		100 uL		100 uL
500-136132-L-1~MS D		9056A	T	100 mL	100 mL		100 uL		100 uL
500-136132-L-2	EIP-DUP-102317	9056A	T						
500-136132-L-2	EIP-DUP-102317	9056A	T						
CCV~500-406966/1		9056A		100 mL	100 mL	100 uL		100 uL	
CCB~500-406966/1		9056A							
500-135323-H-1	BL-TTU-1	300	T						
500-135323-H-1	BL-TTU-1	300	T						
500-135323-H-2	BL-TTU-2	300	T						
500-135323-H-2	BL-TTU-2	300	T						
500-135323-H-3	BL-TTU-3	300	T						
500-135323-H-3	BL-TTU-3	300	T						
500-135323-H-4	BL-TTU-5	300	T						
500-135323-H-4	BL-TTU-5	300	T						
500-135323-H-5	P1-TTU-1	300	T						
500-135323-H-5	P1-TTU-1	300	T						
CCV~500-406966/2 5		300		100 mL	100 mL	100 uL		100 uL	

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General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICS1_00010	WSTICS2_00012
ICV~500-406966/1		9056A			500 uL
ICB~500-406966/2		9056A			
MB~500-406966/3 /LCS		9056A			
500-136132-L-1	OMW1D-GW-102317	9056A	T		
500-136132-L-1	OMW1D-GW-102317	9056A	T		
500-136132-L-1~MS		9056A	T		250 uL
500-136132-L-1~MSD		9056A	T		250 uL
500-136132-L-1~MS		9056A	T		250 uL
500-136132-L-1~MSD		9056A	T		250 uL
500-136132-L-2	EIP-DUP-102317	9056A	T		
500-136132-L-2	EIP-DUP-102317	9056A	T		
CCV~500-406966/13		9056A		250 uL	
CCB~500-406966/14		9056A			
500-135323-H-1	BL-TTU-1	300	T		
500-135323-H-1	BL-TTU-1	300	T		
500-135323-H-2	BL-TTU-2	300	T		
500-135323-H-2	BL-TTU-2	300	T		
500-135323-H-3	BL-TTU-3	300	T		
500-135323-H-3	BL-TTU-3	300	T		
500-135323-H-4	BL-TTU-5	300	T		
500-135323-H-4	BL-TTU-5	300	T		
500-135323-H-5	P1-TTU-1	300	T		
500-135323-H-5	P1-TTU-1	300	T		
CCV~500-406966/25		300		250 uL	

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General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00016	WSTICCL2_00016	WSTICN031_00007	WSTICNO32_00014
CCB~500-406966/26		300							
500-135323-H-6	P1-TTU-2	300	T						
500-135323-H-6	P1-TTU-2	300	T						
500-135323-H-7	P1-TTU-3	300	T						
500-135323-H-7	P1-TTU-3	300	T						
500-135323-H-8	P1-TTU-5	300	T						
500-135323-H-8	P1-TTU-5	300	T						
500-135323-H-9	P2-TTU-5	300	T						
500-135323-H-9	P2-TTU-5	300	T						
500-135323-H-10	P2-TTU-1	300	T						
500-135323-H-10	P2-TTU-1	300	T						
CCV~500-406966/37				100 mL	100 mL	100 uL		100 uL	
CCB~500-406966/38									
500-135323-H-11	P2-TTU-2	300	T						
500-135323-H-11	P2-TTU-2	300	T						
500-135323-H-12	P2-TTU-3	300	T						
500-135323-H-12	P2-TTU-3	300	T						
500-135417-H-1	P3-TTU-1	300	T						
500-135417-H-1~MS		300	T	100 mL	100 mL		100 uL		
500-135417-H-1~MSD		300	T	100 mL	100 mL		100 uL		
500-135417-H-2	P3-TTU-2	300	T						
500-135417-H-3	P3-TTU-3	300	T						
500-135417-H-4	P3-TTU-5	300	T						
CCV~500-406966/49		300		100 mL	100 mL	100 uL		100 uL	
CCB~500-406966/50		300							

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General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICS1_00010	WSTICS2_00012
CCB~500-406966/26		300			
500-135323-H-6	P1-TTU-2	300	T		
500-135323-H-6	P1-TTU-2	300	T		
500-135323-H-7	P1-TTU-3	300	T		
500-135323-H-7	P1-TTU-3	300	T		
500-135323-H-8	P1-TTU-5	300	T		
500-135323-H-8	P1-TTU-5	300	T		
500-135323-H-9	P2-TTU-5	300	T		
500-135323-H-9	P2-TTU-5	300	T		
500-135323-H-10	P2-TTU-1	300	T		
500-135323-H-10	P2-TTU-1	300	T		
CCV~500-406966/3				250 uL	
CCB~500-406966/3					
500-135323-H-11	P2-TTU-2	300	T		
500-135323-H-11	P2-TTU-2	300	T		
500-135323-H-12	P2-TTU-3	300	T		
500-135323-H-12	P2-TTU-3	300	T		
500-135417-H-1	P3-TTU-1	300	T		
500-135417-H-1~MS		300	T		250 uL
500-135417-H-1~MSD		300	T		250 uL
500-135417-H-2	P3-TTU-2	300	T		
500-135417-H-3	P3-TTU-3	300	T		
500-135417-H-4	P3-TTU-5	300	T		
CCV~500-406966/49		300		250 uL	
CCB~500-406966/50		300			

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General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00016	WSTICCL2_00016	WSTICN031_00007	WSTICNO32_00014
500-135417-H-4	P3-TTU-5	300	T						
500-135417-H-5	P3-TTU-5CA	300	T						
500-135417-H-5	P3-TTU-5CA	300	T						
500-135419-E-1	Leachate	9056A	T						
500-135419-E-1	Leachate	9056A	T						
LCS~500-406966/56				100 mL	100 mL		300 uL		200 uL
CCV~500-406966/57		300		100 mL	100 mL	100 uL		100 uL	
CCB~500-406966/58		300							

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General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICS1_00010	WSTICS2_00012
500-135417-H-4	P3-TTU-5	300	T		
500-135417-H-5	P3-TTU-5CA	300	T		
500-135417-H-5	P3-TTU-5CA	300	T		
500-135419-E-1	Leachate	9056A	T		
500-135419-E-1	Leachate	9056A	T		
LCS~500-406966/56					500 uL
CCV~500-406966/57		300		250 uL	
CCB~500-406966/58		300			

Filter ID: WHATMAN-9843107-0.45
Balance ID: NA
Pipette ID: NA
Eluent 1 ID: ELUENTCONC00023
Regeneration Solution ID: NA
Ethylenediamine ID: NA

P0047990f1602

11/09/2017

General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
ICV~500-406966/1		9056A		
ICB~500-406966/2		9056A		
MB~500-406966/3 /LCS		9056A		
500-136132-L-1	OMW1D-GW-102317	9056A	T	
500-136132-L-1	OMW1D-GW-102317	9056A	T	
500-136132-L-1~MS		9056A	T	
500-136132-L-1~MSD		9056A	T	
500-136132-L-1~MS		9056A	T	
500-136132-L-1~MSD		9056A	T	
500-136132-L-2	EIP-DUP-102317	9056A	T	
500-136132-L-2	EIP-DUP-102317	9056A	T	
CCV~500-406966/13		9056A		
CCB~500-406966/14		9056A		
500-135323-H-1	BL-TTU-1	300	T	
500-135323-H-1	BL-TTU-1	300	T	
500-135323-H-2	BL-TTU-2	300	T	
500-135323-H-2	BL-TTU-2	300	T	
500-135323-H-3	BL-TTU-3	300	T	
500-135323-H-3	BL-TTU-3	300	T	
500-135323-H-4	BL-TTU-5	300	T	
500-135323-H-4	BL-TTU-5	300	T	
500-135323-H-5	P1-TTU-1	300	T	
500-135323-H-5	P1-TTU-1	300	T	
CCV~500-406966/25		300		

11/09/2017

General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
CCB~500-406966/26		300		
500-135323-H-6	P1-TTU-2	300	T	
500-135323-H-6	P1-TTU-2	300	T	
500-135323-H-7	P1-TTU-3	300	T	
500-135323-H-7	P1-TTU-3	300	T	
500-135323-H-8	P1-TTU-5	300	T	
500-135323-H-8	P1-TTU-5	300	T	
500-135323-H-9	P2-TTU-5	300	T	
500-135323-H-9	P2-TTU-5	300	T	
500-135323-H-10	P2-TTU-1	300	T	
500-135323-H-10	P2-TTU-1	300	T	
CCV~500-406966/3				
CCB~500-406966/3				
500-135323-H-11	P2-TTU-2	300	T	
500-135323-H-11	P2-TTU-2	300	T	
500-135323-H-12	P2-TTU-3	300	T	
500-135323-H-12	P2-TTU-3	300	T	
500-135417-H-1	P3-TTU-1	300	T	
500-135417-H-1~MS		300	T	
500-135417-H-1~MSD		300	T	
500-135417-H-2	P3-TTU-2	300	T	
500-135417-H-3	P3-TTU-3	300	T	
500-135417-H-4	P3-TTU-5	300	T	
CCV~500-406966/49		300		
CCB~500-406966/50		300		

11/09/2017

General Chemistry Worksheet

Batch Number: 500-406966
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Oct 24 2017 9:53PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
500-135417-H-4	P3-TTU-5	300	T		
500-135417-H-5	P3-TTU-5CA	300	T		
500-135417-H-5	P3-TTU-5CA	300	T		
500-135419-E-1	Leachate	9056A	T		
500-135419-E-1	Leachate	9056A	T		
LCS~500-406966/56					
CCV~500-406966/57		300			
CCB~500-406966/58		300			

Batch Comment: AG14A-5UM/AS14A-5UM

Book# 5067

TestAmerica Chicago
Sulfide / Reactive Sulfide

Page #: 0297

Method:
SM4500S2-F-00 ✓ SW-846 9034 ✓
SW-846 9030B/9034 ____ SW-846 7.3.4.2/9034 ____

NCM #: ____
Analytical Batch #: 407023
Prep Batch #: 407022

Normality of I_2:
Trial 1 = 5.03 mLs
Trial 2 = 5.00 mLs
Trial 3 = 5.04 mLs
Avg. = 5.02 mLs

Titration Dispenser ID: C-3030

(5.02 avg. X N $Na_2S_2O_3$) / 5 = 0.0253 N I_2

N of $Na_2S_2O_3$ = 0.0252
N Check: Date: 10/20/17 Book No.: 5067 Page No.: 289

Result (mg/L or mg/kg) = (mLs I_2)(N I_2) - (mLs $Na_2S_2O_3$) (N $Na_2S_2O_3$) x 16,000 / Sample Size (mLs or grams)

Sample #	mL Sample Size	mLs I_2	mLs $Na_2S_2O_3$	% Rec. (RPD)	Comments
MB	250	5	4.99		
LCS		↓	2.98	100%	
500-135952-1		30	5.92		
-3	↓	5	3.34		
-5	100	30	0.87		
-7	250	5	5.31		
500-135995-5			5.74		
500-135999-47			5.20		
-48			5.53		
-49			5.21		
-50			5.26		
500-136029-1			5.15		
-1MS			3.48	76%	
-1MSD			3.33	83%	9 RPD
500-136132-1			5.31		
-2			5.08		
500-136248-1			1.97		
-2			2.60		
500-136220-1			5.45		
-2			5.51		
-3		↓	5.48		
500-136233-1	↓	25	5.51		

CB 10/26/17

Comments:

Standards Traceability

Stock Soln. I ID # (LCS/MS): WSTSFI-00070 Standardization: Book 5067 Page 282
Note: Working standards are prepared daily from noted Stock Solution.
Spiking Levels (mg/L): LCS: 3.277 MS (Water): 3.277 ~~MS (Soil):~~ ____

Preparation (Circle): a. Filtered b. Bubbled ~~c. Bubbled with Heat~~

Prep Analyst: ____ Date/Time: ____
Analyst: Cheryl L Boyd Date/Time: 10/26/17 08:14-09:16
Reviewer: John Kunal Date: 10/26/17

CHI-22-045/I-05/14

11/09/2017

TestAmerica Chicago

STANDARDIZATION OF SULFIDE STOCK SOLUTION

Book#5067

Sulfide / Reactive Sulfide Page #: 0282

Method:

SM4500S2-F-00 _____ SW-846 9034 _____ NCM #: _____

SW-846 9030B/9034 _____ SW-846 7.3.4.2/9034 _____ Analytical Batch #: _____

Prep Batch #: _____

Normality of I_2:

Trial 1 = 5.05 mLs

Trial 2 = 5.08 mLs

Trial 3 = 5.07 mLs

Titration Dispener ID: C-3030

Avg. = 5.07 mLs (5.07 avg. X N $Na_2S_2O_3$) / 5 = 0.0224 N I_2

N of $Na_2S_2O_3$ = 0.0221

N Check: Date: 10/6/17 Book No.: 5067 Page No.: 272

Result (mg/L or mg/kg) = (mLs I_2)(N I_2) - (mLs $Na_2S_2O_3$) (N $Na_2S_2O_3$) x 16,000 / Sample Size (mLs or grams)

Sample #	Sample Size	mLs I_2	mLs $Na_2S_2O_3$	% Rec. (RPD)	Comments
TRIAL 1			2.73		
2			2.77		
3			2.74		
		Avg. =	2.75		
(5.00 X 0.0224)			- (2.75 X 0.0221)		
(0.1120)			- (0.0608)		= 0.0512
SOIL = (0.0512)		X 16,000/5			= 163.84
WATER = (0.0512)		X 16,000/250			= 3.277

Comments:

Standards Traceability

Stock Soln. I ID # (LCS/MS): WSTSF1 00070 Standardization: Book 5067 Page 282

Note: Working standards are prepared daily from noted Stock Solution.

Spiking Levels (mg/L): LCS: _____ MS (Water): 3.277 MS (Soil): 163.84

Preparation (Circle): a. Filtered b. Bubbled c. Bubbled with Heat

Prep Analyst: _____ Date/Time: _____

Analyst: Cheryl L Boyd Date/Time: 10/13/17

Reviewer: C M Bm Date: 10/15/17

CHI-22-045/I-05/14

TestAmerica Chicago
Sulfide / Reactive Sulfide

STANDARDIZATION OF SODIUM THIOSULFATE

Book #5067

Page #: 0289

Method:
SM4500S2-F-00 _____ SW-846 9034 _____
SW-846 9030B/9034 _____ SW-846 7.3.4.2/9034 _____

NCM #: _____
Analytical Batch #: _____
Prep Batch #: _____

Normality of I_2:
Trial 1 = _____ mLs
Trial 2 = _____ mLs
Trial 3 = _____ mLs
Avg. = _____ mLs

Titration Dispener ID: C-3030

(_____ avg. X N $Na_2S_2O_3$) / 5 = _____ N I_2

N of $Na_2S_2O_3$ = 0.0252
N Check: Date: 10/20/17 Book No.: 5067 Page No.: 289

Result (mg/L or mg/kg) = (mLs I_2)(N I_2) - (mLs $Na_2S_2O_3$) (N $Na_2S_2O_3$) x 16,000 / Sample Size (mLs or grams)

Sample #	Sample Size	mLs I_2	mLs $Na_2S_2O_3$	% Rec. (RPD)	Comments
TRIAL 1			9.89		
2			9.95		
3			9.93		
		Avg. =	9.92		

(9.92 x N) = (0.025 x 10)

(9.92 x N) = (0.250)

N = 0.250 / 9.92

N = 0.0252

Comments:

Standards Traceability

Stock Soln. I ID # (LCS/MS): _____ Standardization: Book _____ Page _____
Note: Working standards are prepared daily from noted Stock Solution.
Spiking Levels (mg/L): LCS: _____ MS (Water): _____ MS (Soil): _____

Preparation (Circle): a. Filtered b. Bubbled c. Bubbled with Heat

Prep Analyst: _____ Date/Time: _____
Analyst: Cheryl L Boyd Date/Time: 10/20/17
Reviewer: Colleen Kuyk Date: 11/7/17

SM4500_S2_B Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-407022

Analyst: Boyd, Cheryl L

Batch Open: 10/25/2017 6:00:00PM

Batch End: 10/25/2017 6:30:00PM

Sulfide, Separation of Soluble and Insoluble

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~500-407022/1 N/A	N/A		250 mL	250 mL	N/A	N/A	N/A		MB 500-407022/1-A
2	LCS~500-407022/2 N/A	N/A		250 mL	250 mL	N/A	N/A	N/A		LCS 500-407022/2-A
3	500-135952-V-1 (SM4500_S2_F)	N/A (500-135952-1)	Water	250 mL	250 mL	10/31/17	8_Days	4		500-135952-V-1-A
4	500-135952-V-3 (SM4500_S2_F)	N/A (500-135952-1)	Water	250 mL	250 mL	10/31/17	8_Days	4		500-135952-V-3-A
5	500-135952-V-5 (SM4500_S2_F)	N/A (500-135952-1)	Water	250 mL	250 mL	10/31/17	8_Days	4		500-135952-V-5-A
6	500-135952-V-7 (SM4500_S2_F)	N/A (500-135952-1)	Water	250 mL	250 mL	10/31/17	8_Days	4		500-135952-V-7-A

SM4500_S2_B Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-407022

Analyst: Boyd, Cheryl L

Batch Open: 10/25/2017 6:00:00PM

Batch End: 10/25/2017 6:30:00PM

Batch Notes

Aluminum Chloride ID

Zinc Acetate Buffer ID

Sodium Hydroxide ID

Batch Comment

Comments

Login Comments for Job 135952: Form 8 required for all report levels.
Internal COC
BP LaMP protocols

Case narrative is required for MS/MSD failures.

500-135952-V-1
Method Comments: Special prep needed - see Carla

500-135952-V-3
Method Comments: Special prep needed - see Carla

500-135952-V-5
Method Comments: Special prep needed - see Carla

500-135952-V-7
Method Comments: Special prep needed - see Carla

SM4500_S2_B Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-407022

Analyst: Boyd, Cheryl L

Batch Open: 10/25/2017 6:00:00PM

Batch End: 10/25/2017 6:30:00PM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness

Other Reagents:

Reagent	Amount/Units	Lot#:

General Chemistry Worksheet

Batch Number: 500-407023
Method: SM 4500 S2 F
Analyst: Boyd, Cheryl L

Date Open: Oct 26 2017 8:14AM
Batch End: Oct 26 2017 9:16AM

Lab ID	Client ID	Method Chain	Basis	Amount of Iodine	Volume of Titrant One Added	Initial weight/volume of sample	Final weight/volume of sample	Calculation Message	WSTSF1_00070
MB~500-407023/1		9034_Calc		5 mL	4.99 mL	250 mL	250 mL	OK	
LCS~500-407023/2		9034_Calc		5 mL	2.98 mL	250 mL	250 mL	OK	5 mL
500-135952-V-1-A		SM4500_S2_F	D	30 mL	5.92 mL	250 mL	250 mL	OK	
500-135952-V-3-A		SM4500_S2_F	D	5 mL	3.34 mL	250 mL	250 mL	OK	
500-135952-V-5-A		SM4500_S2_F	D	30 mL	0.87 mL	100 mL	250 mL	OK	
500-135952-V-7-A		SM4500_S2_F	D	5 mL	5.31 mL	250 mL	250 mL	OK	
500-135995-M-5	MW-406 20171019	9034_Calc	T	5 mL	5.74 mL	250 mL	250 mL	OK	
500-135999-O-47	MW-15SD	9034_Calc	T	5 mL	5.20 mL	250 mL	250 mL	OK	
500-135999-O-48	MW-28	9034_Calc	T	5 mL	5.53 mL	250 mL	250 mL	OK	
500-135999-O-49	MW-22SD	9034_Calc	T	5 mL	5.21 mL	250 mL	250 mL	OK	
500-135999-O-50	MW-30	9034_Calc	T	5 mL	5.26 mL	250 mL	250 mL	OK	
500-136029-M-1	OMW2D-GW-101917	SM4500_S2_F	T	5 mL	5.15 mL	250 mL	250 mL	OK	
500-136029-M-1~MS	OMW2D-GW-101917	SM4500_S2_F	T	5 mL	3.48 mL	250 mL	250 mL	OK	5 mL
500-136029-M-1~MSD	OMW2D-GW-101917	SM4500_S2_F	T	5 mL	3.33 mL	250 mL	250 mL	OK	5 mL
500-136132-M-1	OMW1D-GW-102317	SM4500_S2_F	T	5 mL	5.31 mL	250 mL	250 mL	OK	
500-136132-M-2	EIP-DUP-102317	SM4500_S2_F	T	5 mL	5.08 mL	250 mL	250 mL	OK	
500-136248-H-1	NW255277	SM4500_S2_F	T	5 mL	1.97 mL	250 mL	250 mL	OK	
500-136248-G-2	NW255278	SM4500_S2_F	T	5 mL	2.60 mL	250 mL	250 mL	OK	
500-136220-M-1	MW-108 20171024	9034_Calc	T	5 mL	5.45 mL	250 mL	250 mL	OK	
500-136220-M-2	MW-G 20171024	9034_Calc	T	5 mL	5.51 mL	250 mL	250 mL	OK	
500-136220-O-3	MW-C 20171024	9034_Calc	T	5 mL	5.48 mL	250 mL	250 mL	OK	
500-136233-J-1	LS-1	SM4500_S2_F	T	25 mL	5.51 mL	250 mL	250 mL	OK	

Normality of First Titrant:	0.0252 N	Zinc Acetate Buffer ID:	N/A
Normality of Iodine Solution:	0.0253 N	Hydrochloric Acid ID:	6NHCL00032
First Start time:	08:14	Sodium Hydroxide ID:	N/A
First End time:	09:16	Starch Lot Number:	STARCHIND00020
Nominal Amount Used:	250 mL	Filter ID:	WHATMANGLASSFIBERFILTER
Perform Calculation (0=No, 1=Yes):	1	Zinc Acetate Dispenser ID:	N/A
Sodium Thiosulfate Vendor:	JTBAKER	DI Water Dispenser ID:	N/A
Sodium Thiosulfate ID:	0.025NA2S2O300040	Sulfuric Acid Dispenser ID:	N/A
Sulfuric Acid Reagent ID Number:	N/A	Iodine Dispenser ID:	N/A
Iodine Vendor:	EMD	Sodium Thiosulfate Dispenser ID:	C-3030
Iodine Lot Number:	0.25NIODINE00050		
Pipette ID:	N/A		

TestAmerica Chicago

Total Organic/Inorganic Carbon

Method:

SM5310C-00 ✓
SW846 9060 ____ 9060A ✓

Analytical Batch #: 407343
Analytical Batch #: ____
Prep Batch #: ____
NCM #: ____

Instrument: Fusion – TOC5 ____
Phoenix – TOC3 ✓

Calibration Range: 1.0 – 40.0 mg/L
Reporting Limit: 1.0 mg/L

Standard Curve: Date of Curve 10/9/17

Calculations:
Water: mg/L = mg/L X dilution

Standards Traceability:
Stock I: Calibration and Curve; CCV: HLCS — WCSTC1_00122
Stock II: LCS, ICV, Matrix spikes MRL — WCSTC2_00132
Stock II: TIC sparger check — WSTIC2_00087

Spiking Levels:

		ICAL Standards mg/L	Stock I Spike Amount uLs	DI Amount mL
LCS	10 mg/L	0	0	200
ICV	20 mg/L	1.0	100	200
CCV	10 mg/L	5.0	500	200
		10	1000	200
MS/MSD	10 mg/L	15	1500	Dilute to 200 mL
TIC check	10 mg/L	20	2000	"
MRL	1.0 mg/L	30	3000	"
HLCS	30 mg/L	40	4000	"

Comments:

Analyst: Heather M. Wirta
Date of analysis: 10/20/17
Reviewer: [signature]
Date: 10/27/17

CHI-22-12-105/I-03/15

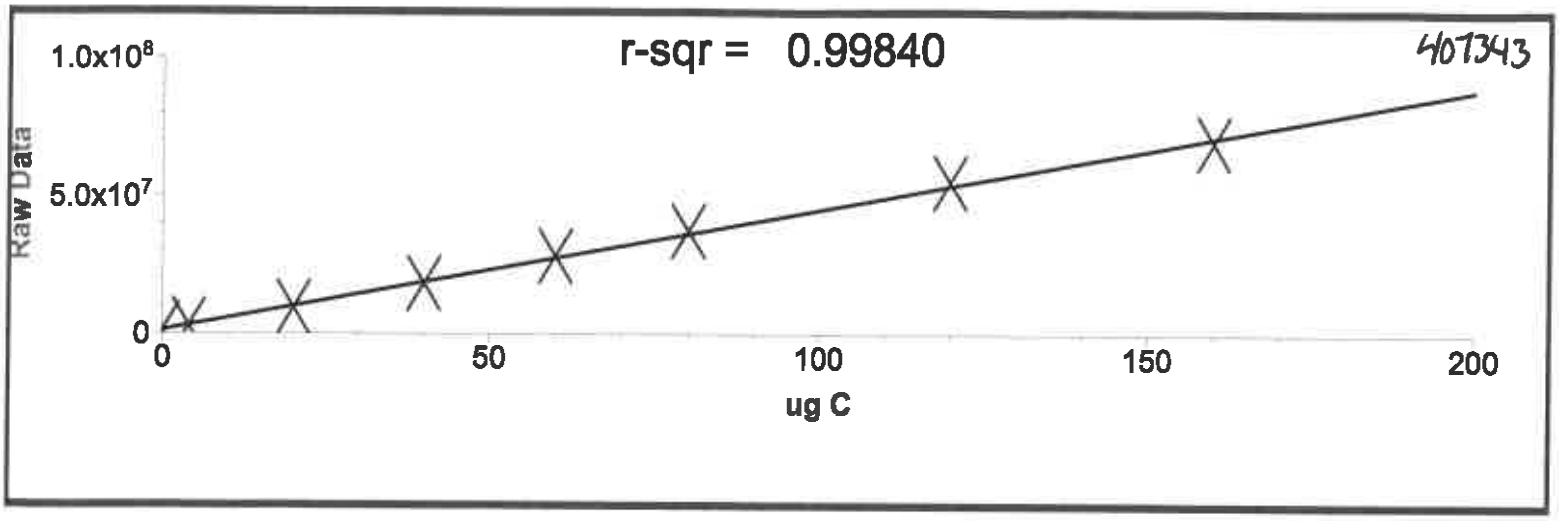
(016-001)

407343

Calibration Report Print Date/Time: 2017/10/09 2:06:58

Cal. Curve ID: TOCCURVE
Created: 10/09/2017 02:06
Calibration Factor (m): 4.363e+05
Y Intercept (b): 1303840
r-squared: 0.99840

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
0	1339675	0.000	0.082		10/09/2017 00:21
1	2837321	4.000	3.515		10/09/2017 00:30
5	9425100	20.000	18.613		10/09/2017 00:38
10	18063794	40.000	38.413		10/09/2017 00:48
15	27991500	60.000	61.167	Max Integrati	10/09/2017 00:58
20	37275764	80.000	82.446	Max Integrati	10/09/2017 01:08
30	55132044	120.000	123.371	Over-range	10/09/2017 01:18
40	69540120	160.000	156.394	Over-range	10/09/2017 02:05


r-sqr = 0.99840
407343
1.0x10^8
5.0x10^7
0
Raw Data
0
50
100
150
200
ug C

Multiple Analysis Report Print Date/Time: 2017/10/27 13:52:40

Sample ID	Result	Std. Dev.	RSD	Mode	ALT	Method ID	Sample Type	Vial	Timestamp	Message
TIC-STD	-0.0382			TOC		TOC Range 0.1 - 20 p	Sample	2	10/26/2017 22:20	
ICV	19.2995			TOC		TOC Range 0.1 - 20 p	Sample	3	10/26/2017 22:31	Max Integration
Time Reached										
ICB	0.2240			TOC		TOC Range 0.1 - 20 p	Sample	4	10/26/2017 22:39	
MB	-0.1216	..		TOC	..	TOC Range 0.1 - 20 p	Sample	5	10/26/2017 22:47.	
MB	-0.1188			TOC		TOC Range 0.1 - 20 p	Sample	5	10/26/2017 22:55	
LCS	9.3710			TOC		TOC Range 0.1 - 20 p	Sample	6	10/26/2017 23:04	
LCS	9.3597	..		TOC	..	TOC Range 0.1 - 20 p	Sample	6	10/26/2017 23:13.	
720-82627-h-2 1/10	22.6324			TOC		TOC Range 0.1 - 20 p	Sample	7	10/26/2017 23:23	Max Integration
Time Reached										
720-82627-h-2 1/10	24.1143			TOC		TOC Range 0.1 - 20 p	Sample	7	10/26/2017 23:34	Max Integration
Time Reached										
720-82627-h-3 1/2	10.2492	..		TOC	..	TOC Range 0.1 - 20 p	Sample	8	10/26/2017 23:44.	Max Integration
Time Reached										
720-82627-h-3 1/2	9.8947			TOC		TOC Range 0.1 - 20 p	Sample	8	10/26/2017 23:54	Max Integration
Time Reached										
720-82627-d-13 1/10	3.9964			TOC		TOC Range 0.1 - 20 p	Sample	9	10/27/2017 00:04	Max Integration
Time Reached										
720-82627-d-13 1/10	3.7573	..		TOC	..	TOC Range 0.1 - 20 p	Sample	9	10/27/2017 00:14.	Max Integration
Time Reached										
720-82627-h-15 1/2	5.2202			TOC		TOC Range 0.1 - 20 p	Sample	10	10/27/2017 00:24	Max Integration
Time Reached										
720-82627-h-15 1/2	5.0894			TOC		TOC Range 0.1 - 20 p	Sample	10	10/27/2017 00:35	Max Integration
Time Reached										
720-82627-h-16 1/2	10.6861	..		TOC	..	TOC Range 0.1 - 20 p	Sample	11	10/27/2017 00:45.	Max Integration
Time Reached										
720-82627-h-16 1/2	10.9635			TOC		TOC Range 0.1 - 20 p	Sample	11	10/27/2017 00:55	Max Integration
Time Reached										
720-82656-c-1	0.9514			TOC		TOC Range 0.1 - 20 p	Sample	12	10/27/2017 01:05	Max Integration
Time Reached										
720-82656-c-1	0.8535	..		TOC	..	TOC Range 0.1 - 20 p	Sample	12	10/27/2017 01:15.	Max Integration
Time Reached										
720-82656-c-1 MS	7.9919			TOC		TOC Range 0.1 - 20 p	Sample	13	10/27/2017 01:25	Max Integration
Time Reached										
720-82656-c-1 MSD	8.0809			TOC		TOC Range 0.1 - 20 p	Sample	13	10/27/2017 01:36	Max Integration
Time Reached										
CCV	9.7146	..		TOC	..	TOC Range 0.1 - 20 p	Sample	14	10/27/2017 01:46.	Max Integration
Time Reached										
CCB	0.0206			TOC		TOC Range 0.1 - 20 p	Sample	15	10/27/2017 01:54	
500-135447-d-1 1/4	25.4149			TOC		TOC Range 0.1 - 20 p	Sample	16	10/27/2017 02:04	Max Integration
Time Reached										
500-135447-d-1 1/4	25.5418	..		TOC	..	TOC Range 0.1 - 20 p	Sample	16	10/27/2017 02:14.	Max Integration
Time Reached										
500-135447-d-2	4.5593			TOC		TOC Range 0.1 - 20 p	Sample	17	10/27/2017 02:25	Max Integration
Time Reached										
500-135447-d-2	4.2375			TOC		TOC Range 0.1 - 20 p	Sample	17	10/27/2017 02:35	Max Integration
Time Reached										
500-135447-d-3	4.1132	..		TOC	..	TOC Range 0.1 - 20 p	Sample	18	10/27/2017 02:45.	Max Integration
Time Reached										
500-135447-d-3	4.0389			TOC		TOC Range 0.1 - 20 p	Sample	18	10/27/2017 02:55	Max Integration
Time Reached										
500-135805-c-2	10.2430			TOC		TOC Range 0.1 - 20 p	Sample	19	10/27/2017 03:05	Max Integration

→ Time Reached											
500-135805-c-2.....	10.3801...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	19..	10/27/2017 03:15.	Max Integration	
→ Time Reached											
500-136039-r-1	0.5376		TOC		TOC Range 0.1 - 20 p	Sample		20	10/27/2017 03:26	Max Integration	
→ Time Reached											
500-136039-r-1	0.4900		TOC		TOC Range 0.1 - 20 p	Sample		20	10/27/2017 03:36	Max Integration	
→ Time Reached											
500-136039-r-2.....	3.6136...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	21..	10/27/2017 03:46.	Max Integration	
→ Time Reached											
500-136039-r-2	3.7511		TOC		TOC Range 0.1 - 20 p	Sample		21	10/27/2017 03:56	Max Integration	→
→ Time Reached											
500-135919-b-1	1.9758		TOC		TOC Range 0.1 - 20 p	Sample		22	10/27/2017 04:05		
500-135919-b-1.....	1.7697...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	22..	10/27/2017 04:15.		
500-135919-b-1 MS	10.9203		TOC		TOC Range 0.1 - 20 p	Sample		23	10/27/2017 04:25		
500-135919-b-1 MSD	10.9079		TOC		TOC Range 0.1 - 20 p	Sample		23	10/27/2017 04:34		
CCV.....	9.3965...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	24..	10/27/2017 04:44.		
CCB	-0.0123		TOC		TOC Range 0.1 - 20 p	Sample		25	10/27/2017 04:52		
500-136132-k-1	1.6267		TOC		TOC Range 0.1 - 20 p	Sample		26	10/27/2017 05:01		
500-136132-k-1.....	1.6114...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	26..	10/27/2017 05:10.		
500-136132-j-2	1.6007		TOC		TOC Range 0.1 - 20 p	Sample		27	10/27/2017 05:20		
500-136132-j-2	1.5992		TOC		TOC Range 0.1 - 20 p	Sample		27	10/27/2017 05:29		
500-136094-q-1.....	1.6468...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	28..	10/27/2017 05:39.	Max Integration	
→ Time Reached											
500-136094-q-1	1.6624		TOC		TOC Range 0.1 - 20 p	Sample		28	10/27/2017 05:49	Max Integration	→
→ Time Reached											
500-136094-r-2	0.1447		TOC		TOC Range 0.1 - 20 p	Sample		29	10/27/2017 05:57		
500-136094-r-2.....	0.1268...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	29..	10/27/2017 06:06.		
500-135652-g-2	3.5751		TOC		TOC Range 0.1 - 20 p	Sample		30	10/27/2017 06:16	Max Integration	
→ Time Reached											
500-135652-g-2	3.5595		TOC		TOC Range 0.1 - 20 p	Sample		30	10/27/2017 06:26	Max Integration	
→ Time Reached											
500-135652-g-3.....	3.9172...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	31..	10/27/2017 06:36.		
500-135652-g-3	3.9407		TOC		TOC Range 0.1 - 20 p	Sample		31	10/27/2017 06:46		
500-135652-g-4	11.1308		TOC		TOC Range 0.1 - 20 p	Sample		32	10/27/2017 06:56	Max Integration	
→ Time Reached											
500-135652-g-4.....	11.1457...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	32..	10/27/2017 07:06.	Max Integration	
→ Time Reached											
CCV	9.4588		TOC		TOC Range 0.1 - 20 p	Sample		33	10/27/2017 07:16		
CCB	-0.0114		TOC		TOC Range 0.1 - 20 p	Sample		34	10/27/2017 07:24		
MB.....	-0.0761...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	35..	10/27/2017 07:33.		
MB	-0.0908		TOC		TOC Range 0.1 - 20 p	Sample		35	10/27/2017 07:41		
LCS	9.3864		TOC		TOC Range 0.1 - 20 p	Sample		36	10/27/2017 07:51		
LCS.....	9.4054...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	36..	10/27/2017 08:01.		
500-136019-i-2	0.5989		TOC		TOC Range 0.1 - 20 p	Sample		37	10/27/2017 08:09		
500-136019-i-2	0.5768		TOC		TOC Range 0.1 - 20 p	Sample		37	10/27/2017 08:17		
500-136019-i-3.....	0.9704...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	38..	10/27/2017 08:27.		
500-136019-i-3	0.9785		TOC		TOC Range 0.1 - 20 p	Sample		38	10/27/2017 08:37		
500-136019-i-4	1.2707		TOC		TOC Range 0.1 - 20 p	Sample		39	10/27/2017 08:46		
500-136019-i-4.....	1.2935...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	39..	10/27/2017 08:55.		
500-136019-i-4 MS	10.1744		TOC		TOC Range 0.1 - 20 p	Sample		40	10/27/2017 09:05	Max Integration	→
→ Time Reached											
500-136019-i-4 MSD	10.2110		TOC		TOC Range 0.1 - 20 p	Sample		40	10/27/2017 09:15		
500-136019-i-5.....	1.8795...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	41..	10/27/2017 09:24.		
500-136019-i-5	1.8497		TOC		TOC Range 0.1 - 20 p	Sample		41	10/27/2017 09:34		
500-136019-i-6	2.1738		TOC		TOC Range 0.1 - 20 p	Sample		42	10/27/2017 09:43		
500-136019-i-6.....	2.1602...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	..	42..	10/27/2017 09:52.		

500-136019-i-7	1.3228		TOC		TOC Range 0.1 - 20 p	Sample	43	10/27/2017 10:01	
500-136019-i-7	1.3318		TOC		TOC Range 0.1 - 20 p	Sample	43	10/27/2017 10:10	
CCV.....	9.1730...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 44..	10/27/2017 10:20.	Max Integration
→ Time Reached									
CCB	-0.0676		TOC		TOC Range 0.1 - 20 p	Sample	45	10/27/2017 10:28	
500-136019-i-8	2.1839		TOC		TOC Range 0.1 - 20 p	Sample	46	10/27/2017 10:38	
500-136019-i-8.....	2.1824...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 46..	10/27/2017 10:47.	
500-136019-i-9	0.8491		TOC		TOC Range 0.1 - 20 p	Sample	47	10/27/2017 10:55	
500-136019-i-9	0.8583		TOC		TOC Range 0.1 - 20 p	Sample	47	10/27/2017 11:04	
500-136019-i-10.....	0.5593...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 48..	10/27/2017 11:12.	
500-136019-i-10	0.5943		TOC		TOC Range 0.1 - 20 p	Sample	48	10/27/2017 11:20	
500-135786-m-1	2.8592		TOC		TOC Range 0.1 - 20 p	Sample	49	10/27/2017 11:30	
500-135786-m-1.....	2.9959...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 49..	10/27/2017 11:40.	
500-135786-n-2	3.1867		TOC		TOC Range 0.1 - 20 p	Sample	50	10/27/2017 11:49	
500-135786-n-2	3.2174		TOC		TOC Range 0.1 - 20 p	Sample	50	10/27/2017 11:59	
500-136164-i-2.....	1.0647...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 51..	10/27/2017 12:09.	Max Integration
→ Time Reached									
500-136164-i-2	0.9418		TOC		TOC Range 0.1 - 20 p	Sample	51	10/27/2017 12:18	
500-136164-i-3	1.0153		TOC		TOC Range 0.1 - 20 p	Sample	52	10/27/2017 12:27	
500-136164-i-3.....	1.0032...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 52..	10/27/2017 12:35.	
500-136164-i-4	0.7307		TOC		TOC Range 0.1 - 20 p	Sample	53	10/27/2017 12:44	
500-136164-i-4	0.7159		TOC		TOC Range 0.1 - 20 p	Sample	53	10/27/2017 12:52	
500-136164-i-4 MS.....	9.8683...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 54..	10/27/2017 13:02.	
500-136164-i-4 MSD	9.8661		TOC		TOC Range 0.1 - 20 p	Sample	54	10/27/2017 13:12	
CCV	9.2255		TOC		TOC Range 0.1 - 20 p	Sample	55	10/27/2017 13:21	
CCB.....	0.0067...	..	...TOC	..	TOC Range 0.1 - 20 p...	Sample	.. 56..	10/27/2017 13:30.	

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Detailed Analysis Report Print Date/Time: 2017/10/27 13:52:32

Sample ID: TIC-STD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 22:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0382	-0.1527	1009594	28.900	29.552	111

Sample ID: ICV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 22:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19.2995	77.1981	34758612	28.368	29.391	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: ICB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 22:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2240	0.8961	1467186	28.441	29.435	132

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 22:47
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.1216	-0.4864	863980	28.973	29.969	104

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 22:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.1188	-0.4752	868847	28.411	29.411	109

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 23:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3710	37.4839	17430836	28.222	29.221	188

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 23:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

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1	9.3597	37.4388	17411172	28.375	29.371	179

Sample ID: 720-82627-h-2 1/10
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 23:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	22.6324	90.5297	40575312	28.186	39.183	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-h-2 1/10
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 23:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24.1143	96.4571	43161528	29.004	39.905	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-h-3 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 23:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2492	40.9966	18963484	29.162	65.068	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-h-3 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/26/2017 23:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8947	39.5790	18344958	28.898	64.844	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-d-13 1/10
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 00:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.9964	15.9854	8050828	28.937	34.721	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-d-13 1/10
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 00:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7573	15.0293	7633634	28.663	33.751	240

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Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-h-15 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 00:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.2202	20.8806	10186651	28.429	52.036	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-h-15 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 00:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.0894	20.3576	9958439	28.272	52.567	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-h-16 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 00:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.6861	42.7445	19726092	28.188	95.844	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82627-h-16 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 00:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9635	43.8540	20210196	28.522	95.334	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82656-c-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 01:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.9514	3.8055	2736565	28.339	38.773	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82656-c-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 01:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8535	3.4141	2565795	27.993	37.737	240

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Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82656-c-1 MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 01:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.9919	31.9676	15024042	28.019	51.799	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 720-82656-c-1 MSD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 01:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.0809	32.3234	15179269	28.064	52.082	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 01:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7146	38.8585	18030590	28.092	29.334	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 01:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0206	0.0822	1112071	28.224	29.222	122

Sample ID: 500-135447-d-1 1/4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 02:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	25.4149	101.6595	45431372	28.066	47.200	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135447-d-1 1/4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 02:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	25.5418	102.1674	45652964	28.200	47.886	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135447-d-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 02:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.5593	18.2372	9033278	28.097	45.599	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135447-d-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 02:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2375	16.9498	8471610	27.969	44.402	241

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135447-d-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 02:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.1132	16.4527	8254721	27.897	44.307	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135447-d-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 02:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.0389	16.1557	8125100	27.836	43.908	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135805-c-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 03:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2430	40.9721	18952782	27.879	29.217	241

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135805-c-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER

Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 03:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.3801	41.5202	19191940	28.054	29.303	240

Last Message: Max Integration Time Reached AD HW 10/27/17

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Sample ID: 500-136039-r-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 03:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5376	2.1503	2014404	28.043	29.335	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-136039-r-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 03:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4900	1.9601	1931434	27.789	29.230	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-136039-r-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 03:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.6136	14.4544	7382804	27.757	54.551	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-136039-r-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 03:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7511	15.0043	7622727	27.779	56.207	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135919-b-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 04:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.9758	7.9032	4524479	27.913	28.913	192

Sample ID: 500-135919-b-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 04:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.7697	7.0790	4164840	27.821	28.818	174

Sample ID: 500-135919-b-1 MS
Method: TOC Range 0.1 - 20 ppm C
Mode: TOC
Filename: 10262213

Cal. Curve: TOCCURVE
Operator ID: HEATHER
Timestamp: 10/27/2017 04:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9203	43.6814	20134876	27.810	28.810	232

Sample ID: 500-135919-b-1 MSD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 04:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9079	43.6315	20113126	27.746	28.743	225

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 04:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3965	37.5860	17475376	27.729	28.728	211

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 04:52
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0123	-0.0494	1054664	27.641	28.640	121

Sample ID: 500-136132-k-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 05:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6267	6.5070	3915263	27.554	28.549	178

Sample ID: 500-136132-k-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 05:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6114	6.4456	3888511	27.583	28.576	170

Sample ID: 500-136132-j-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 05:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6007	6.4030	3869898	27.567	28.563	175

Sample ID: 500-136132-j-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 05:29

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Operator ID: HEATHER Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.5992	6.3970	3867266	27.523	28.520	175

Sample ID: 500-136094-q-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 05:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6468	6.5872	3950264	27.536	31.035	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-136094-q-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 05:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6624	6.6497	3977550	27.584	31.256	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-136094-r-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 05:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1447	0.5787	1328699	27.597	28.593	135

Sample ID: 500-136094-r-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 06:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1268	0.5070	1297425	27.460	28.456	137

Sample ID: 500-135652-g-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 06:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5751	14.3003	7315591	27.406	33.829	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135652-g-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 06:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5595	14.2379	7288373	27.760	34.319	240

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Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135652-g-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 06:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.9172	15.6688	7912662	27.531	28.530	227

Sample ID: 500-135652-g-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 06:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.9407	15.7629	7953715	27.535	28.535	228

Sample ID: 500-135652-g-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 06:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.1308	44.5232	20502176	27.471	44.381	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-135652-g-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 07:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.1457	44.5826	20528090	27.587	42.694	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 07:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.4588	37.8351	17584056	27.611	28.610	218

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 07:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0114	-0.0456	1056326	27.591	28.589	124

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 07:33
Sample Type: Sample

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Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0761	-0.3044	943405	27.451	28.449	126

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 07:41
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0908	-0.3630	917803	27.449	28.448	128

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 07:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3864	37.5455	17457728	27.437	28.437	233

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 08:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.4054	37.6217	17490980	27.523	28.521	213

Sample ID: 500-136019-i-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 08:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5989	2.3954	2121350	27.528	28.528	132

Sample ID: 500-136019-i-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 08:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5768	2.3071	2082803	27.528	28.526	130

Sample ID: 500-136019-i-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 08:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.9704	3.8816	2769769	27.569	28.567	210

Sample ID: 500-136019-i-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 08:37
Sample Type: Sample

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Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.9785	3.9139	2783867	27.697	28.695	207

Sample ID: 500-136019-i-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 08:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.2707	5.0826	3293807	27.658	28.656	174

Sample ID: 500-136019-i-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 08:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.2935	5.1740	3333666	27.640	28.636	183

Sample ID: 500-136019-i-4 MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 09:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1744	40.6975	18832956	27.647	28.656	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: 500-136019-i-4 MSD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 09:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.2110	40.8440	18896882	27.811	28.810	229

Sample ID: 500-136019-i-5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 09:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.8795	7.5179	4356329	27.752	28.752	191

Sample ID: 500-136019-i-5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 09:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.8497	7.3986	4304314	27.839	28.838	185

Sample ID: 500-136019-i-6
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 09:43
Sample Type: Sample

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Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1738	8.6951	4869964	27.776	28.776	191

Sample ID: 500-136019-i-6
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 09:52
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1602	8.6410	4846351	27.838	28.837	182

Sample ID: 500-136019-i-7
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 10:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.3228	5.2911	3384781	27.837	28.832	160

Sample ID: 500-136019-i-7
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 10:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.3318	5.3271	3400457	27.860	28.859	156

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 10:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.1730	36.6920	17085328	27.892	28.952	240

Last Message: Max Integration Time Reached AD HW 10/27/17

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 10:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	-0.0676	-0.2706	958140	27.880	28.879	126

Sample ID: 500-136019-i-8
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 10:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1839	8.7357	4887683	27.827	28.826	204

Sample ID: 500-136019-i-8
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 10:47

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Operator ID: HEATHER Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1824	8.7295	4884992	27.984	28.984	194

Sample ID: 500-136019-i-9
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 10:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8491	3.3965	2558138	28.020	29.018	128

Sample ID: 500-136019-i-9
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 11:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8583	3.4330	2574072	27.982	28.982	130

Sample ID: 500-136019-i-10
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 11:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5593	2.2371	2052287	28.014	29.011	125

Sample ID: 500-136019-i-10
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 11:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5943	2.3773	2113446	27.999	28.999	137

Sample ID: 500-135786-m-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 11:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.8592	11.4367	6066162	28.044	29.042	211

HW 10/27/17 reported already ran + per HW 10/27/17 in batch # 407167

Sample ID: 500-135786-m-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 11:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9959	11.9836	6304772	28.084	29.084	213

Sample ID: 500-135786-n-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 11:49
Sample Type: Sample

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Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.1867	12.7469	6637831	28.180	29.179	204

HW 10/27/17 already ran + reported in batch #407167

Sample ID: 500-135786-n-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 11:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.2174	12.8696	6691363	28.191	29.191	207

Sample ID: 500-136164-i-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 12:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.0647	4.2588	2934360	28.171	29.243	240

Last Message: Max Integration Time Reached

Sample ID: 500-136164-i-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 12:18
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.9418	3.7672	2719891	28.233	29.230	180

Sample ID: 500-136164-i-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 12:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.0153	4.0614	2848219	28.281	29.280	139

Sample ID: 500-136164-i-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 12:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.0032	4.0127	2826971	28.211	29.210	136

Sample ID: 500-136164-i-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: HEATHER
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 12:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7307	2.9227	2351397	28.211	29.208	128

Sample ID: 500-136164-i-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Mode: TOC
Filename: 10262213
Timestamp: 10/27/2017 12:52

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Operator ID: HEATHER Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7159	2.8638	2325696	28.235	29.232	125

Sample ID: 500-136164-i-4 MS Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 10262213
Cal. Curve: TOCCURVE Timestamp: 10/27/2017 13:02
Operator ID: HEATHER Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8683	39.4733	18298826	28.237	29.235	230

Sample ID: 500-136164-i-4 MSD Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 10262213
Cal. Curve: TOCCURVE Timestamp: 10/27/2017 13:12
Operator ID: HEATHER Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8661	39.4644	18294954	28.317	29.316	211

Sample ID: CCV Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 10262213
Cal. Curve: TOCCURVE Timestamp: 10/27/2017 13:21
Operator ID: HEATHER Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.2255	36.9021	17177008	28.368	29.366	223

Sample ID: CCB Mode: TOC
Method: TOC Range 0.1 - 20 ppm C Filename: 10262213
Cal. Curve: TOCCURVE Timestamp: 10/27/2017 13:30
Operator ID: HEATHER Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0067	0.0268	1087879	28.400	29.397	131

General Chemistry Worksheet

Batch Number: 500-407343
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 26 2017 10:20PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	RPD from Results 1 and 2	Did RPD Pass?	WCSTTC1_00122	WCSTTC2_00132
TIC-STD						0 %	TOC Pass		
ICV~500-407343/2		5310C		200 mL	200 mL	0 %	TOC Pass		2000 uL
ICB~500-407343/3		5310C				0 %	TOC Pass		
MB~500-407343/4		5310C				0 %	TOC Pass		
LCS~500-407343/5		5310C		200 mL	200 mL	0 %	TOC Pass		1000 uL
720-82627-H-2	MW-51-20171017-01	5310C	T			6 %	TOC Pass		
720-82627-H-3	MW-89-20171017-01	5310C	T			4 %	TOC Pass		
720-82627-D-13	MW-46-20171017-01	5310C	T			6 %	TOC Pass		
720-82627-H-15	MW-158-20171017-01	5310C	T			3 %	TOC Pass		
720-82627-H-16	RW-8-20171017-01	5310C	T			3 %	TOC Pass		
720-82656-C-1	MW-81-20171017-01	5310C	T			11 %	TOC Fail		
720-82656-C-1~MS		5310C	T	40 mL	40 mL	0 %	TOC Pass		200 uL
720-82656-C-1~MS		5310C	T	40 mL	40 mL	0 %	TOC Pass		200 uL
CCV~500-407343/1		5310C		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB~500-407343/1		5310C				0 %	TOC Pass		
500-135447-D-1	MW-215 20171010	9060A	T			0 %	TOC Pass		
500-135447-D-2	MW-213 20171010	9060A	T			7 %	TOC Pass		
500-135447-D-3	DUP-101 20171010	9060A	T			2 %	TOC Pass		
500-135805-C-2	Liquid	9060A	T			1 %	TOC Pass		
500-136039-R-1	TB-124	5310C	T			9 %	TOC Pass		
500-136039-R-2	TB-122	5310C	T			4 %	TOC Pass		
500-135919-B-1	CSD-1S	9060A	T			11 %	TOC Fail		
500-135919-B-1~MS		9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-135919-B-1~MSD		9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
CCV~500-407343/25		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	

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General Chemistry Worksheet

Batch Number: 500-407343
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 26 2017 10:20PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	RPD from Results 1 and 2	Did RPD Pass?	WCSTTC1_00122	WCSTTC2_00132
CCB~500-407343/26		9060A				0 %	TOC Pass		
500-136132-K-1	OMW1D-GW-102317	9060A	T			1 %	TOC Pass		
500-136132-J-2	EIP-DUP-102317	9060A	T			0 %	TOC Pass		
500-136094-Q-1	TB-119	5310C	T			1 %	TOC Pass		
500-136094-R-2	Rinsate	5310C	T			13 %	TOC Fail		
500-135652-G-2	MW-207 20171013	9060A	T			0 %	TOC Pass		
500-135652-G-3	MW-208 20171013	9060A	T			1 %	TOC Pass		
500-135652-G-4	MW-216 20171013	9060A	T			0 %	TOC Pass		
CCV~500-407343/34		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB~500-407343/35		9060A				0 %	TOC Pass		
CCB~500-407343/36		9060A				0 %	TOC Pass		
LCS~500-407343/37		9060A		200 mL	200 mL	0 %	TOC Pass		1000 uL
500-136019-I-2	MW-47WT	9060A	T			4 %	TOC Pass		
500-136019-I-3	PMW-14D	9060A	T			1 %	TOC Pass		
500-136019-I-4	MW-14WT	9060A	T			2 %	TOC Pass		
500-136019-I-4~MS		9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-136019-I-4~MSD		9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-136019-I-5	PMW-3S	9060A	T			2 %	TOC Pass		
500-136019-I-6	DUPLICATE#1	9060A	T			1 %	TOC Pass		
500-136019-I-7	MW-35WT	9060A	T			1 %	TOC Pass		
CCV~500-407343/46		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB~500-407343/47		9060A				0 %	TOC Pass		
500-136019-I-8	MW-11	9060A	T			0 %	TOC Pass		
500-136019-I-9	MW-41WT	9060A	T			1 %	TOC Pass		
500-136019-I-10	MW-39WT	9060A	T			6 %	TOC Pass		

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General Chemistry Worksheet

Batch Number: 500-407343
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 26 2017 10:20PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	RPD from Results 1 and 2	Did RPD Pass?	WCSTTC1_00122	WCSTTC2_00132
500-135786-M-1	TB-120	5310C	T			5 %	TOC Pass		
500-135786-N-2	TB-120 DUP	5310C	T			1 %	TOC Pass		
500-136164-I-2	MW-44 WT	9060A	T			12 %	TOC Fail		
500-136164-I-3	MW-42 WT	9060A	T			1 %	TOC Pass		
500-136164-I-4	Duplicate #2	9060A	T			2 %	TOC Pass		
500-136164-I-4~MS		9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
500-136164-I-4~MSD		9060A	T	40 mL	40 mL	0 %	TOC Pass		200 uL
CCV~500-407343/58		9060A		200 mL	200 mL	0 %	TOC Pass	1 mL	
CCB~500-407343/59		9060A				0 %	TOC Pass		

First Start time: See Start Date/Time
First End time: See End Date/Time
Phosphoric Acid ID: 21% H3PO4_00059
Sodium Persulfate ID: Na_Persulfate_00096
Pipette ID: NA

General Chemistry Worksheet

Batch Number: 500-407343
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 26 2017 10:20PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
TIC-STD					
ICV~500-407343/2		5310C			
ICB~500-407343/3		5310C			
MB~500-407343/4		5310C			
LCS~500-407343/5		5310C			
720-82627-H-2	MW-51-20171017-01	5310C	T		
720-82627-H-3	MW-89-20171017-01	5310C	T		
720-82627-D-13	MW-46-20171017-01	5310C	T		
720-82627-H-15	MW-158-20171017-01	5310C	T		
720-82627-H-16	RW-8-20171017-01	5310C	T		
720-82656-C-1	MW-81-20171017-01	5310C	T		
720-82656-C-1~MS		5310C	T		
720-82656-C-1~MS D		5310C	T		
CCV~500-407343/14		5310C			
CCB~500-407343/15		5310C			
500-135447-D-1	MW-215 20171010	9060A	T		
500-135447-D-2	MW-213 20171010	9060A	T		
500-135447-D-3	DUP-101 20171010	9060A	T		
500-135805-C-2	Liquid	9060A	T		
500-136039-R-1	TB-124	5310C	T		
500-136039-R-2	TB-122	5310C	T		
500-135919-B-1	CSD-1S	9060A	T		
500-135919-B-1~MS		9060A	T		
500-135919-B-1~MS D		9060A	T		
CCV~500-407343/25		9060A			

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General Chemistry Worksheet

Batch Number: 500-407343
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 26 2017 10:20PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
CCB~500-407343/26		9060A			
500-136132-K-1	OMW1D-GW-102317	9060A	T		
500-136132-J-2	EIP-DUP-102317	9060A	T		
500-136094-Q-1	TB-119	5310C	T		
500-136094-R-2	Rinsate	5310C	T		
500-135652-G-2	MW-207 20171013	9060A	T		
500-135652-G-3	MW-208 20171013	9060A	T		
500-135652-G-4	MW-216 20171013	9060A	T		
CCV~500-407343/34		9060A			
CCB~500-407343/35		9060A			
MB~500-407343/36		9060A			
LCS~500-407343/37		9060A			
500-136019-I-2	MW-47WT	9060A	T		
500-136019-I-3	PMW-14D	9060A	T		
500-136019-I-4	MW-14WT	9060A	T		
500-136019-I-4~MS		9060A	T		
500-136019-I-4~MSD		9060A	T		
500-136019-I-5	PMW-3S	9060A	T		
500-136019-I-6	DUPLICATE#1	9060A	T		
500-136019-I-7	MW-35WT	9060A	T		
CCV~500-407343/46		9060A			
CCB~500-407343/47		9060A			
500-136019-I-8	MW-11	9060A	T		
500-136019-I-9	MW-41WT	9060A	T		
500-136019-I-10	MW-39WT	9060A	T		

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General Chemistry Worksheet

Batch Number: 500-407343
Method: SM 5310C
Analyst: Wontor, Heather M

Date Open: Oct 26 2017 10:20PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
500-135786-M-1	TB-120	5310C	T	
500-135786-N-2	TB-120 DUP	5310C	T	
500-136164-I-2	MW-44 WT	9060A	T	
500-136164-I-3	MW-42 WT	9060A	T	
500-136164-I-4	Duplicate #2	9060A	T	
500-136164-I-4~MS		9060A	T	
500-136164-I-4~MSD		9060A	T	
CCV~500-407343/58		9060A		
CCB~500-407343/59		9060A		

Batch Comment: NA

TestAmerica Chicago

CHI-22-12-084/Y-09/15

Cover Page - Ion Chromatograph

LIMS Batch: 108534 **FILE ID:** ~~10~~ 11-4-17 .csv

Calibration Date: ~~10-27-17~~ 10/26/17

11/1/17

Instrument: (Circle)	
a. IC5: Dionex Series ICS-1100	SevenAnions
b. IC8: Dionex Series ICS-1100	SevenAnions

Standard Traceability

Note: Working Standards are prepared daily from the noted Stock Solutions.

Test	Calibration Curve CCV Stock ID	LCS / MS ICV Stock ID	LCS mg/L	ICV / CCV mg/L	MS mg/L
Fluoride	WSTICF1-	WSTICF2-	1.0	1.0 / 0.6	0.6
Chloride	WSTICCL1- 17	WSTICCL2- 16	3.0	3.0 / 1.0	1.0
Nitrite-N	WSTICNI1-	WSTICNO2II-	2.0	2.0 / 1.0	1.0
Bromide	WSTICBR1-	WSTICBR2-	2.0	2.0 / 1.0	1.0
Nitrate-N	WSTICNO31-	WSTICNO32-	2.0	2.0 / 1.0	1.0
O-PO4	WSTICP1-	WSTICP2-	2.0	2.0 / 1.0	1.0
Sulfate	WSTICS1- 10	WSTICS2- 12	5.0	5.0 / 2.5	2.5

Test	Range of Curve (mg/L)
Fluoride	0.20 - 2.0
Chloride	0.20 - 7.5
Nitrite-N	0.20 - 5.0
Bromide	0.20 - 5.0
Nitrate-N	0.20 - 4.0
O-PO4	0.20 - 4.0
Sulfate	0.20 - 10.0

IC Data Qualifiers used by the analyst in the raw data evaluation.

CE = Co-Elution or masking of peak(s) has been identified

OR = Over Range - Peak exceeds the highest standard of the calibration curve

OD = Over Dilution - The ion is reported from a less dilute injection

NR = Not Required - analysis was not required for this ion

AD = Analyst Discretion was used in the evaluation and the reporting of the ion

RE = Reported Elsewhere

RT = Retention Time Shift

MI = Manual Integration (baseline)

Analyst Signature: [signature] Date: 11-7-17

Reviewer Signature: Colleen Kuper Date: 11/7/17

TestAmerica Chicago

Retention Time Window Summary Table

Instrument:	IC5: ICS 1100	Method: SevenAnions
Batch:	408534	
Date:	11/7/2017	

Analyst:	Eliane Treadwell

Parameter	ICV RT Minutes	RT Window +/- 2 %	
Fluoride		0.00	0.00
Chloride	3.60	3.53	3.67
Nitrite		0.00	0.00
Bromide		0.00	0.00
Nitrate		0.00	0.00
Orthophosphate		0.00	0.00
Sulfate	8.27	8.11	8.44

Analyst Signature: Eliane Treadwell Date: 11-7-17

CHI-22-12-130/D-10/17

L108-534

Sequence Overview

Sequence Details

Name:	**11-04-2017**	*Created On:*	**10/Apr/12 15:30:04**
Directory:	**Instrument Data\CHI-WC-IC5_1\Instrument**	*Created By:*	**moorec**
Data Vault:	**ChromeleonLocal**	*Updated On:*	**05/Nov/17 00:28:19**
No. of Injections:	**46**	*Updated By:*	**CHIINSTIC5**

Injection Details

No.	Injection Name	Position	Type	Level	Inject Time	Comment
1	ICV	RA1	Check Standard	04	04/Nov/17 15:11:58	IC Stock II
2	ICB	RA2	Unknown		04/Nov/17 15:24:18	
3	MB	RA3	Unknown		04/Nov/17 15:36:54	
4	LCS	RA4	Check Standard	04	04/Nov/17 15:49:18	IC Stock II
5	500-136733-A-1	BA1	Unknown		04/Nov/17 16:01:43	CL
6	500-136733-A-3	BA2	Unknown		04/Nov/17 16:14:05	CL
7	500-136733-A-4	BA3	Unknown		04/Nov/17 16:26:25	CL
8	500-136733-A-8	BA4	Unknown		04/Nov/17 16:39:00	CL
9	500-136132-L-2	BA5	Unknown		04/Nov/17 16:51:20	CL, NO3, SO4
10	500-136132-L-2 MS	BA6	Spiked	03	04/Nov/17 17:03:41	CL, NO3, SO4
11	500-136132-L-2 MSD	BA7	Spiked	03	04/Nov/17 17:16:02	CL, NO3, SO4
12	500-135676-B-1	BA8	Unknown		04/Nov/17 17:28:23	CL, SO4
13	CCV	RA5	Check Standard	03	04/Nov/17 17:41:00	IC Stock I
14	CCB	RA6	Unknown		04/Nov/17 17:53:20	
15	500-135676-B-2	BB1	Unknown		04/Nov/17 18:05:42	CL, SO4
16	500-135676-B-2	BB2	Unknown		04/Nov/17 18:18:01	CL, SO4
17	500-135676-B-3	BB3	Unknown		04/Nov/17 18:30:21	CL, SO4
18	500-135676-B-3	BB4	Unknown		04/Nov/17 18:42:55	CL, SO4
19	500-135676-B-4	BB5	Unknown		04/Nov/17 18:55:15	CL, SO4
20	500-135676-B-4	BB6	Unknown		04/Nov/17 19:07:35	CL, SO4
21	500-135676-B-5	BB7	Unknown		04/Nov/17 19:19:55	CL, SO4
22	500-135676-B-5	BB8	Unknown		04/Nov/17 19:32:15	CL, SO4
23	500-135676-B-6	BC1	Unknown		04/Nov/17 19:44:35	CL, SO4
24	500-135676-B-7	BC2	Unknown		04/Nov/17 19:56:56	CL, SO4
25	CCV	RA7	Check Standard	03	04/Nov/17 20:09:18	IC Stock I
26	CCB	RA8	Unknown		04/Nov/17 20:21:38	
27	500-135676-B-7	BC3	Unknown		04/Nov/17 20:34:00	CL, SO4
28	500-135676-B-8	BC4	Unknown		04/Nov/17 20:46:21	CL, SO4
29	500-135676-B-8	BC5	Unknown		04/Nov/17 20:58:40	CL, SO4
30	500-135676-B-9	BC6	Unknown		04/Nov/17 21:11:00	CL, SO4
31	500-135676-B-10	BC7	Unknown		04/Nov/17 21:23:21	CL, SO4
32	500-135676-B-10	BC8	Unknown		04/Nov/17 21:35:41	CL, SO4
33	500-135676-B-12	BD1	Unknown		04/Nov/17 21:48:02	CL, SO4
34	500-135676-B-13	BD2	Unknown		04/Nov/17 22:00:22	CL, SO4
35	500-135676-B-13	BD3	Unknown		04/Nov/17 22:12:43	CL, SO4
36	500-135676-B-15	BD4	Unknown		04/Nov/17 22:25:03	CL, SO4
37	CCV	RA5	Check Standard	03	04/Nov/17 22:37:24	IC Stock I
38	CCB	RA6	Unknown		04/Nov/17 22:49:45	
39	500-135676-B-15 MS	BD5	Spiked	03	04/Nov/17 23:02:05	CL, SO4
40	500-135676-B-15 MS	BD6	Spiked	03	04/Nov/17 23:14:26	CL, SO4
41	500-135676-B-16	BD7	Unknown		04/Nov/17 23:26:45	CL, SO4
42	500-135676-B-17	BD8	Unknown		04/Nov/17 23:39:06	CL, SO4

408534

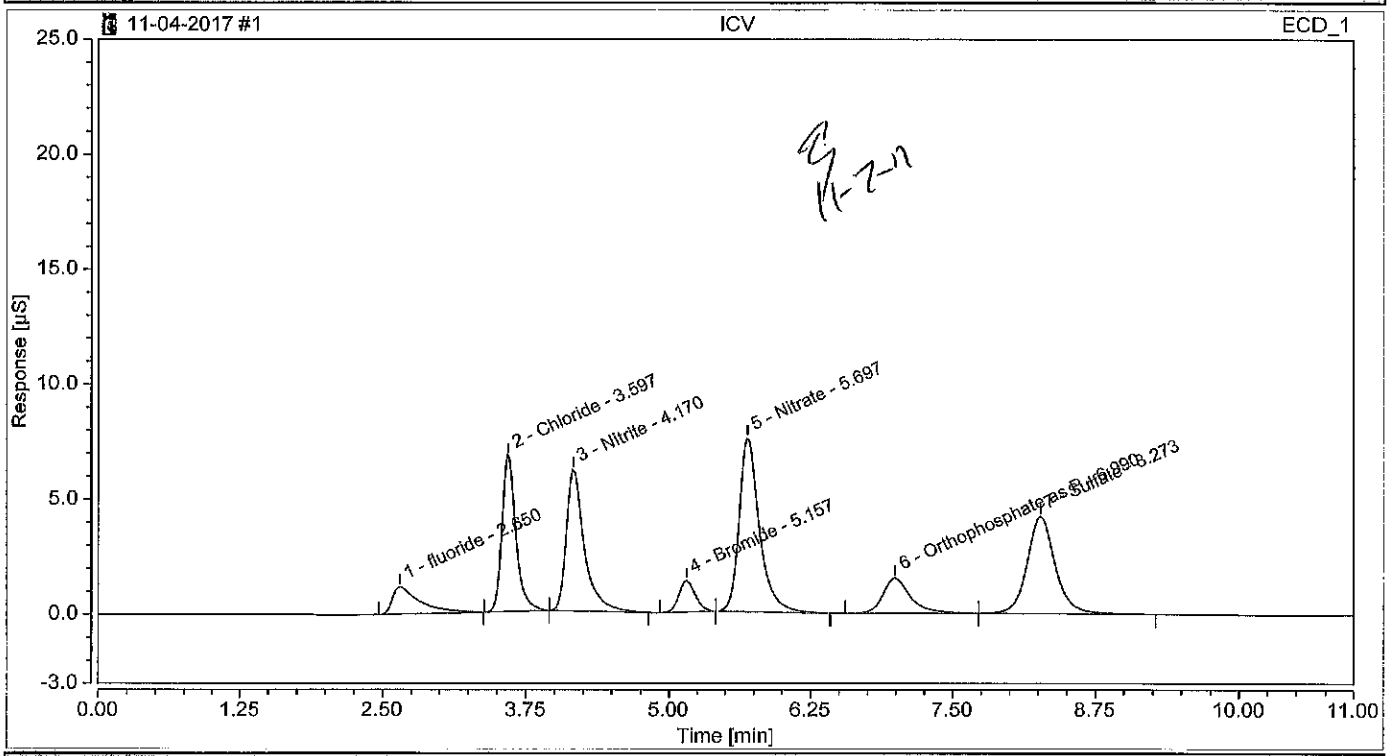
43	500-135676-B-17	BE1	Unknown		04/Nov/17 23:51:25	CL, SO4
44	CCV	RA7	Check Standard	03	05/Nov/17 00:03:47	IC Stock I
45	CCB	RA8	Unknown		05/Nov/17 00:16:08	
46	SHUTDOWN	RA6	Unknown		05/Nov/17 00:27:11	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**11.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 15:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

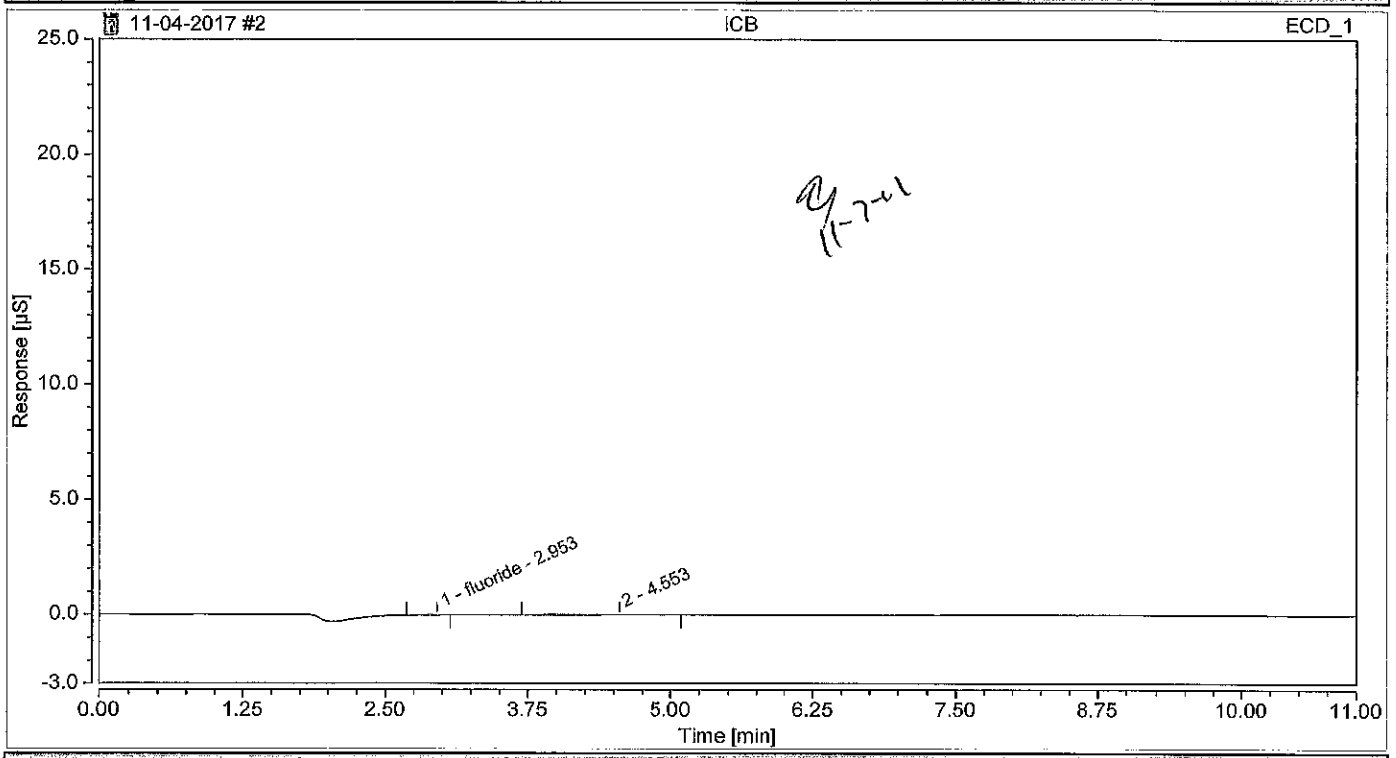
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.650	0.32860	1.184	5.63	4.12	0.8641
2	Chloride	3.597	0.93474	6.764	16.03	23.52	2.9540
3	Nitrite	4.170	1.12721	6.145	19.33	21.36	1.9235
4	Bromide	5.157	0.23107	1.356	3.96	4.71	1.9299
5	Nitrate	5.697	1.56398	7.558	26.82	26.28	1.9134
6	Orthophosphate as P	6.990	0.43641	1.533	7.48	5.33	1.8482
7	Sulfate	8.273	1.21017	4.224	20.75	14.69	5.1343
Total:			**5.832**	**28.763**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**11.00**
Vial Number:	**RA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 15:24**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

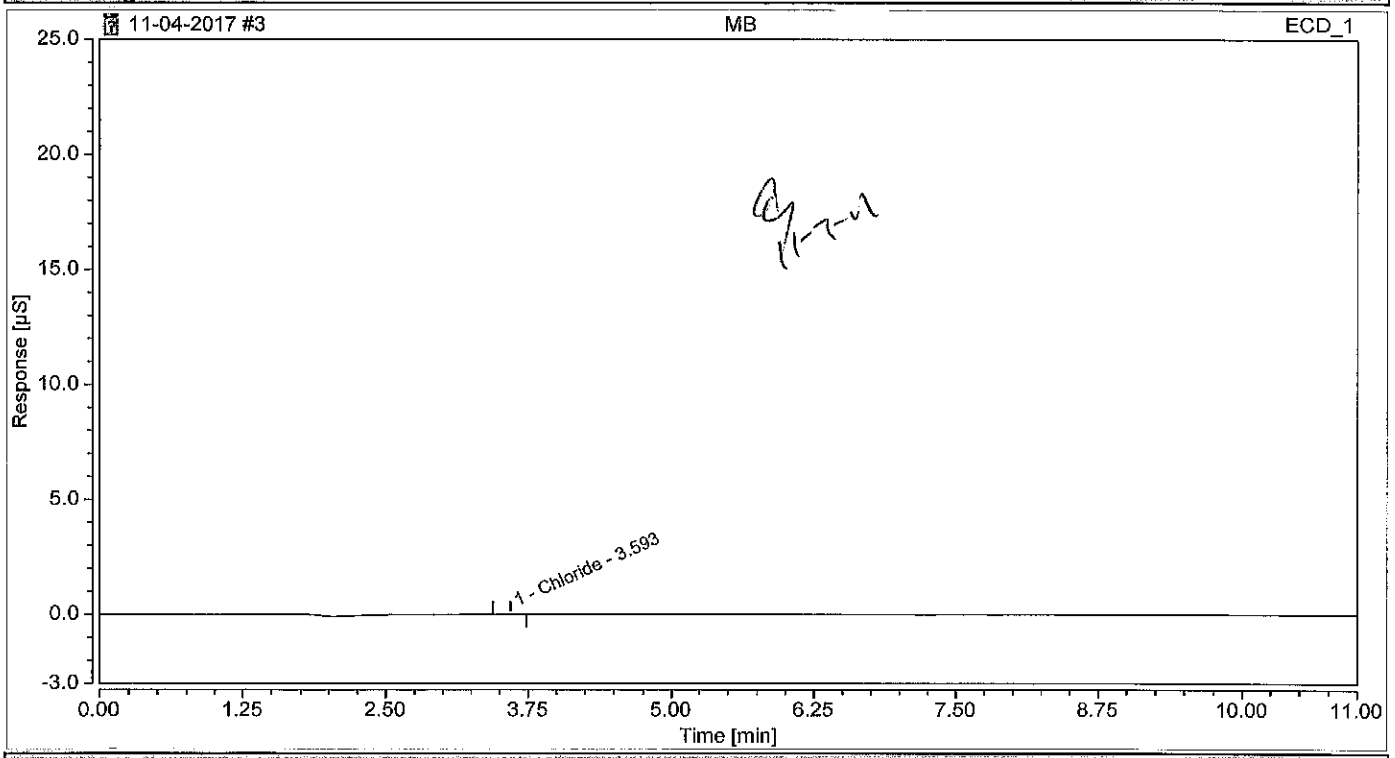
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.953	0.00164	0.007	14.56	41.25	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		4.553	0.00964	0.010	85.44	58.75	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.011**	**0.017**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**11.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 15:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

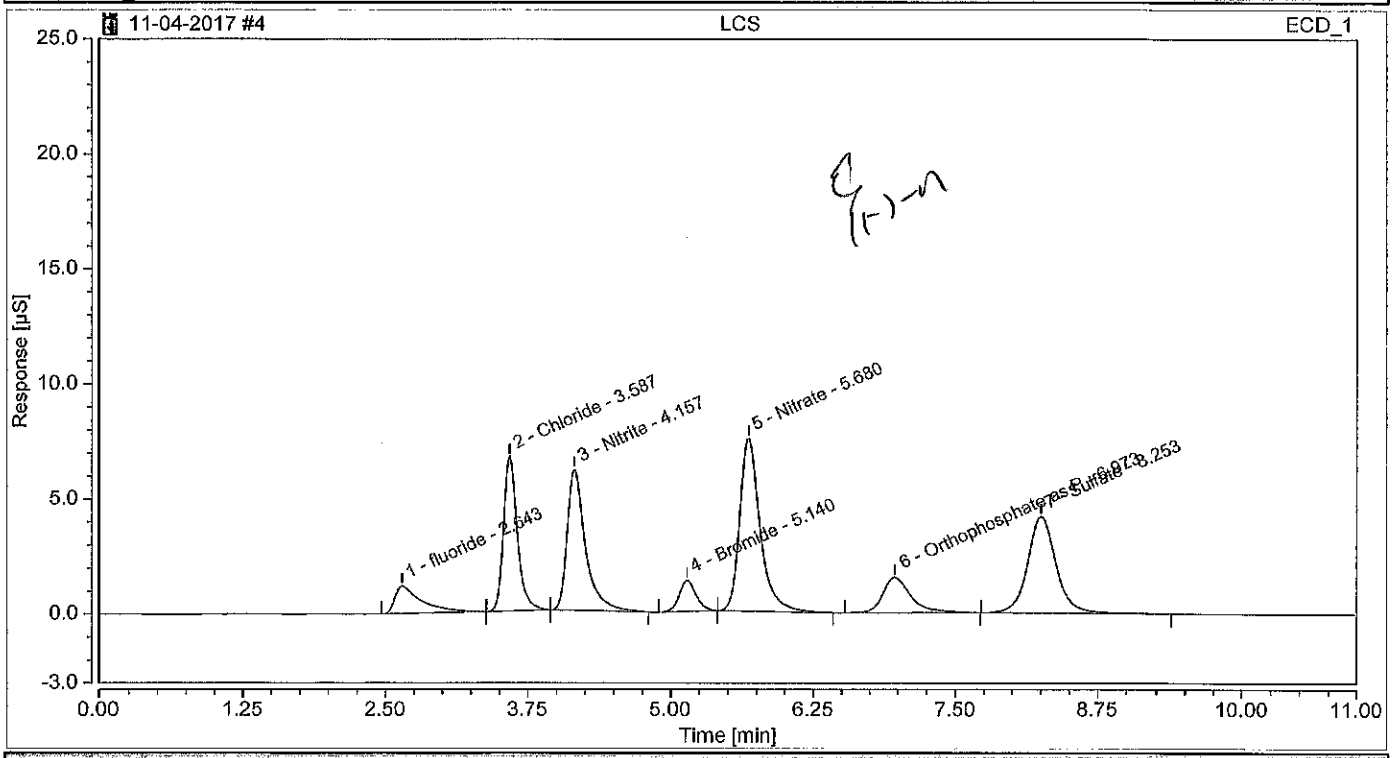
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.593	0.00094	0.007	100.00	100.00	0.0914
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.001**	**0.007**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**11.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 15:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

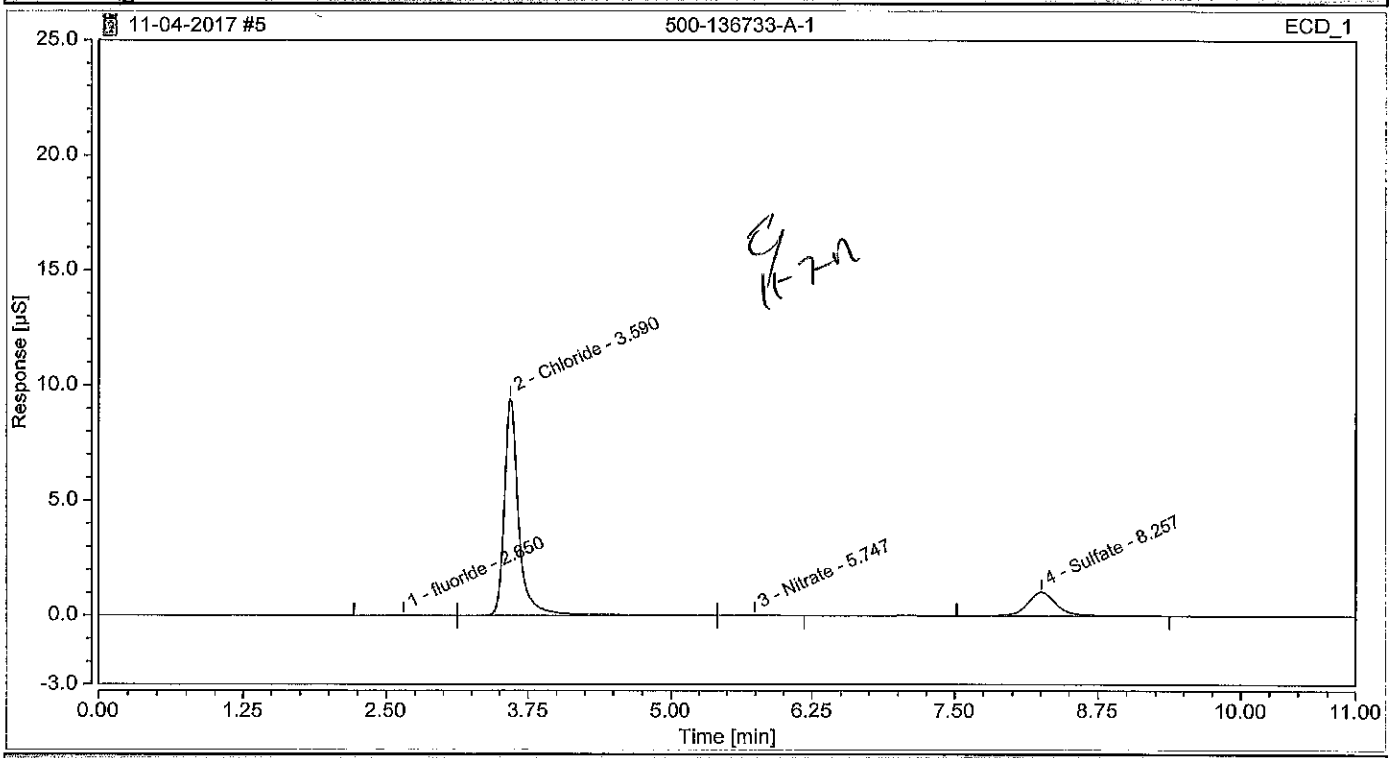
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.643	0.33022	1.193	5.69	4.16	0.8684
2	Chloride	3.587	0.92583	6.710	15.94	23.42	2.9267
3	Nitrite	4.157	1.12304	6.123	19.34	21.37	1.9168
4	Bromide	5.140	0.23044	1.355	3.97	4.73	1.9247
5	Nitrate	5.680	1.55687	7.524	26.81	26.26	1.9049
6	Orthophosphate as P	6.973	0.43780	1.545	7.54	5.39	1.8537
7	Sulfate	8.253	1.20348	4.201	20.72	14.66	5.1060
Total:			**5.808**	**28.649**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136733-A-1**	*Run Time (min):*	**11.00**
Vial Number:	**BA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**04/Nov/17 16:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

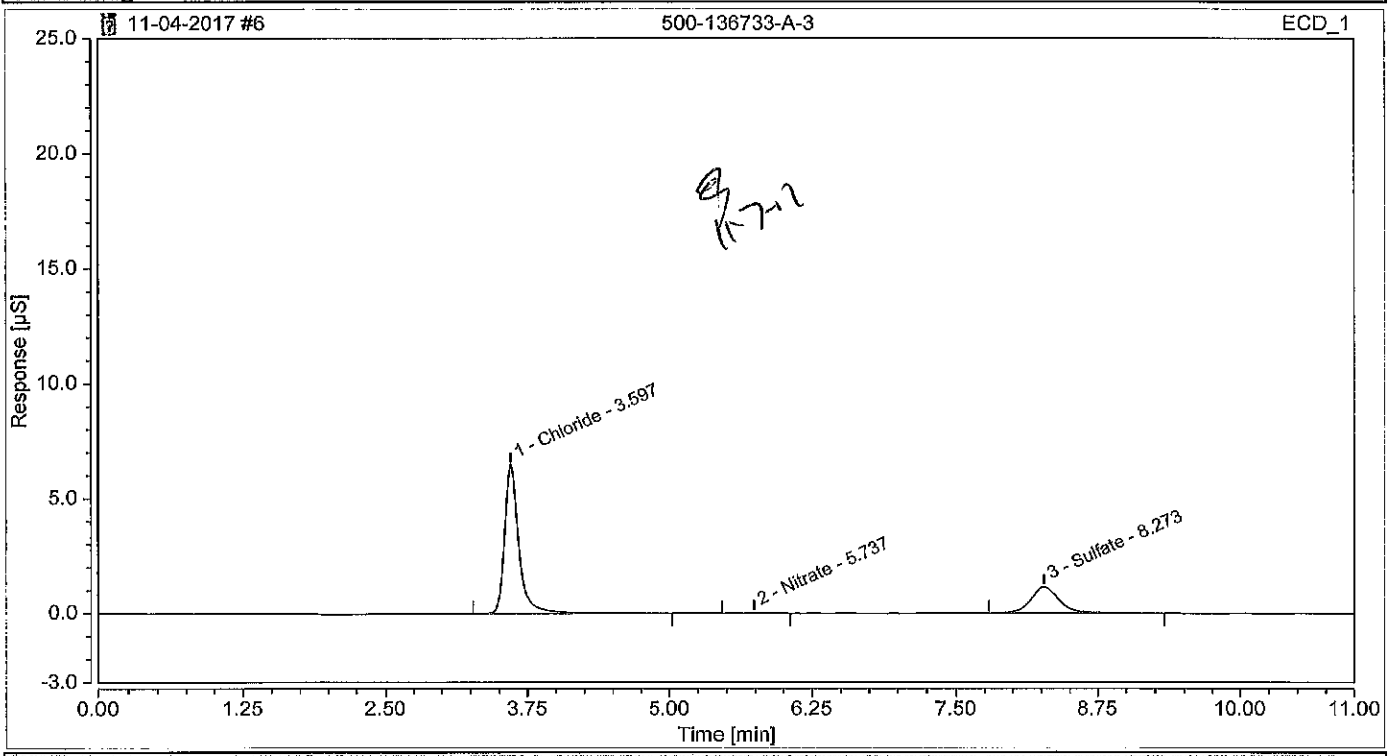
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.650	0.00471	0.015	0.28	0.14	0.5885
2	Chloride	3.590	1.39062	9.422	81.32	89.83	435.1511
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.747	0.00662	0.025	0.39	0.24	6.7991
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.257	0.30809	1.028	18.02	9.80	132.1556
Total:			**1.710**	**10.489**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136733-A-3**	*Run Time (min):*	**11.00**
Vial Number:	**BA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**04/Nov/17 16:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

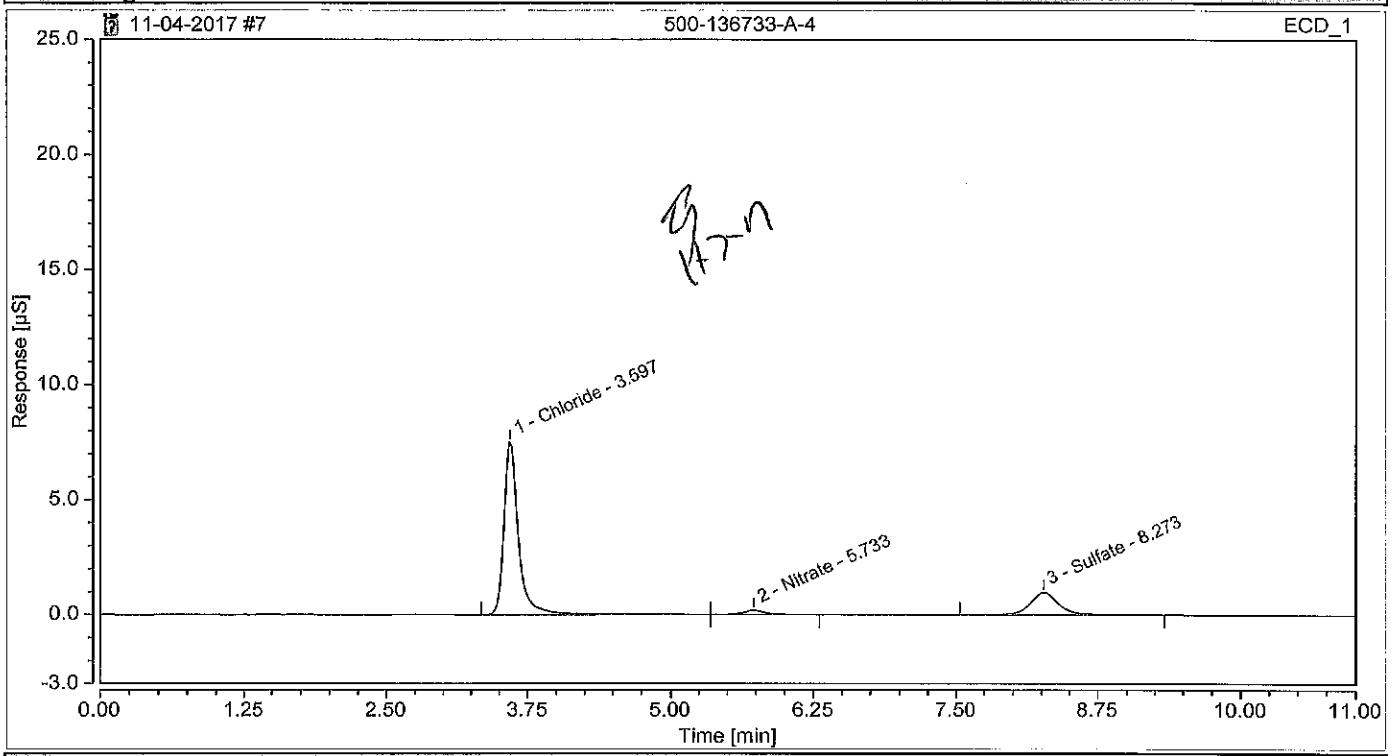
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.597	0.94659	6.429	73.51	84.77	299.0328
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.737	0.00475	0.017	0.37	0.23	6.5781
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.273	0.33644	1.138	26.13	15.01	144.1378
Total:			**1.288**	**7.585**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136733-A-4**	*Run Time (min):*	**11.00**
Vial Number:	**BA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**04/Nov/17 16:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

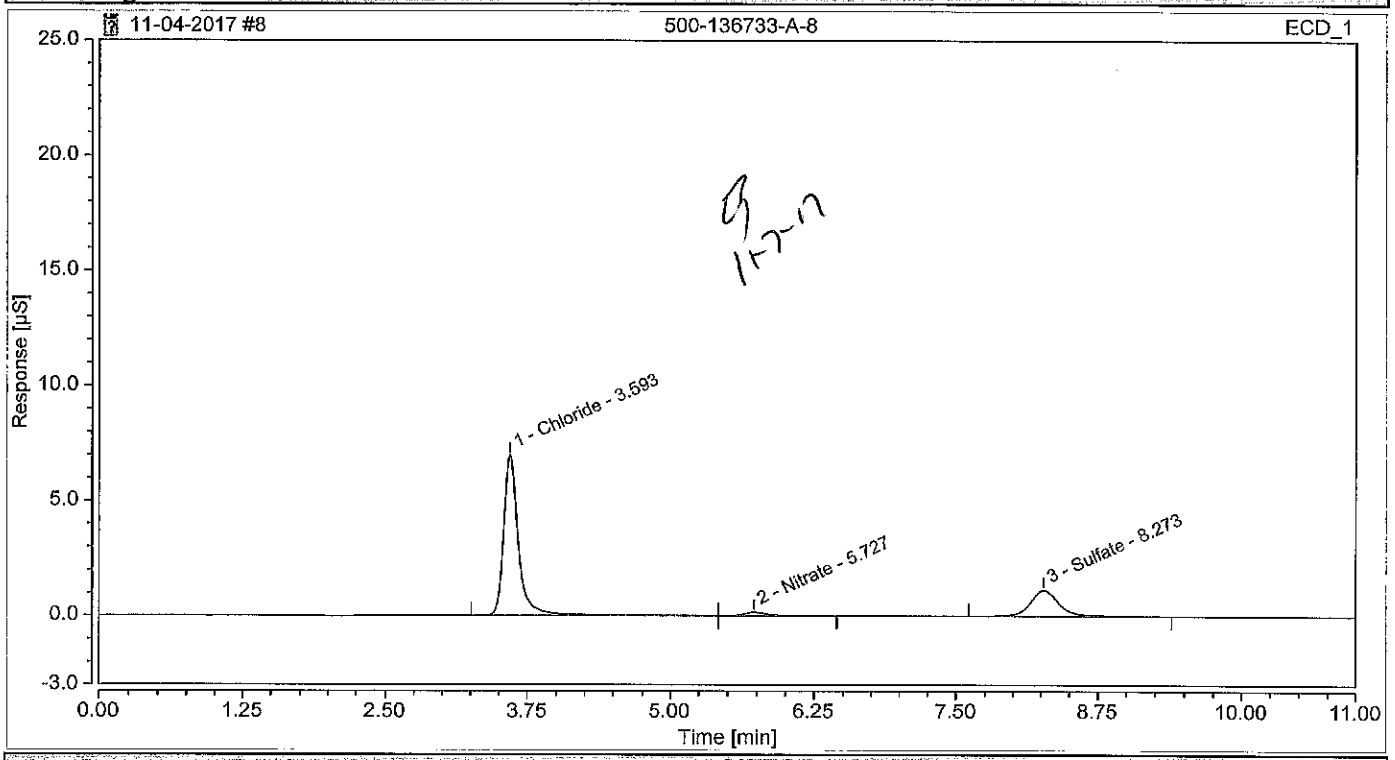
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.597	1.11571	7.501	77.31	86.66	350.8772
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.733	0.04094	0.185	2.84	2.14	10.8659
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.273	0.28656	0.970	19.86	11.21	123.0567
Total:			**1.443**	**8.656**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136733-A-8**	*Run Time (min):*	**11.00**
Vial Number:	**BA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**04/Nov/17 16:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

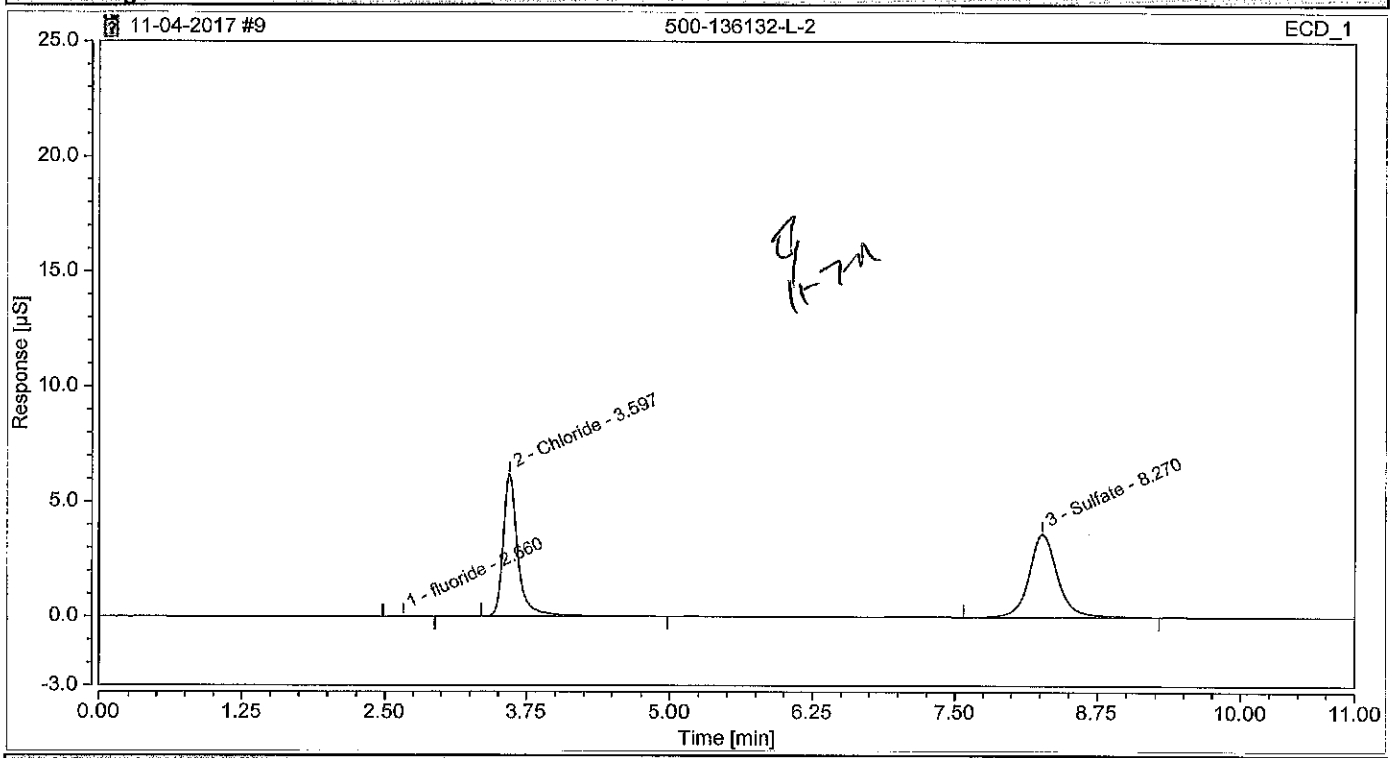
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.593	1.03978	6.963	73.72	84.44	327.6012
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.727	0.03596	0.159	2.55	1.93	10.2761
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.273	0.33467	1.123	23.73	13.62	143.3897
Total:			**1.410**	**8.246**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-2**	*Run Time (min):*	**11.00**
Vial Number:	**BA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**04/Nov/17 16:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

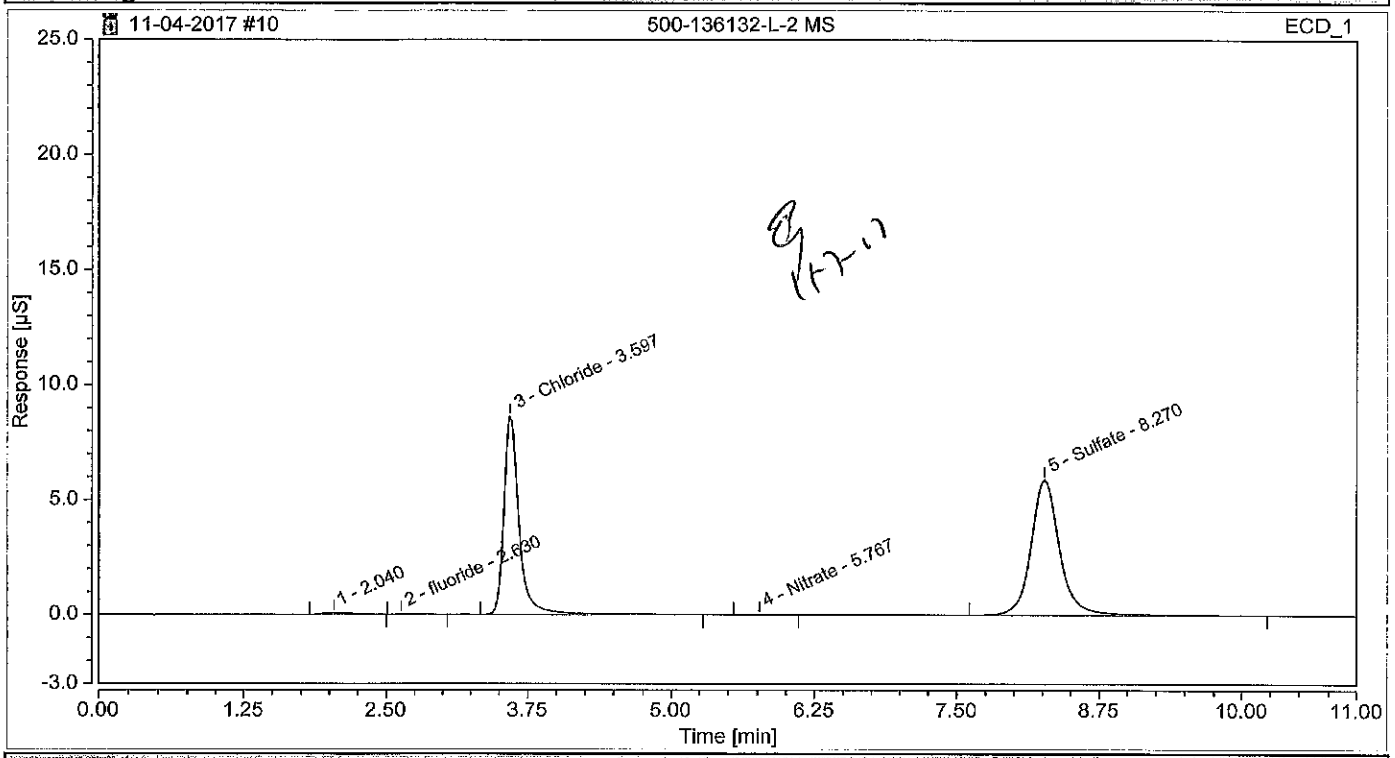
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.660	0.00294	0.015	0.15	0.15	0.0240
2	Chloride	3.597	0.93010	6.149	46.75	62.88	58.7955
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.270	1.05635	3.616	53.10	36.97	89.6828
Total:			**1.989**	**9.779**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-2 MS**	*Run Time (min):*	**11.00**
Vial Number:	**BA6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**04/Nov/17 17:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

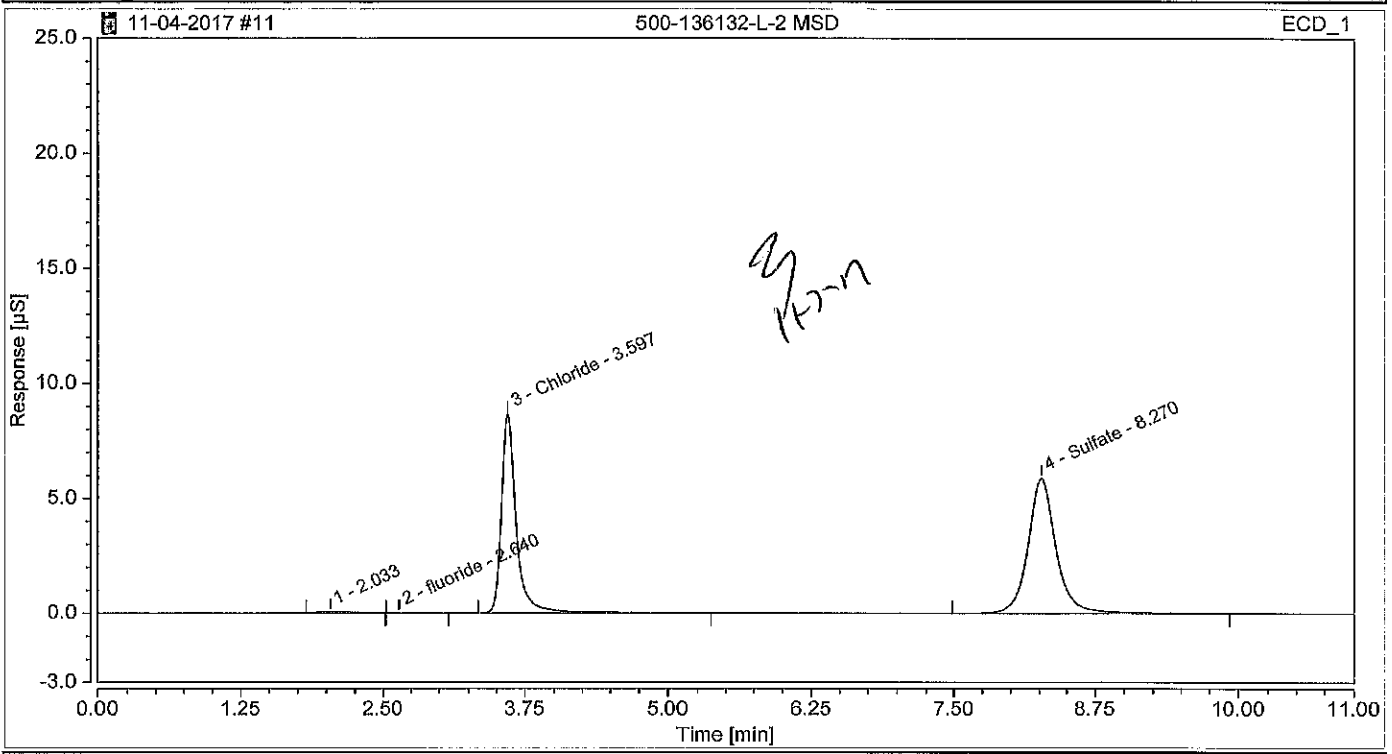
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.040	0.02229	0.066	0.73	0.45	n.a.
2	fluoride	2.630	0.00308	0.015	0.10	0.11	0.0316
3	Chloride	3.597	1.29354	8.614	42.39	59.04	81.0785
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.767	0.00214	0.008	0.07	0.06	1.2537
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.270	1.73073	5.887	56.71	40.35	146.6887
Total:			**3.052**	**14.590**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-136132-L-2 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**BA7**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, NO3, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**04/Nov/17 17:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

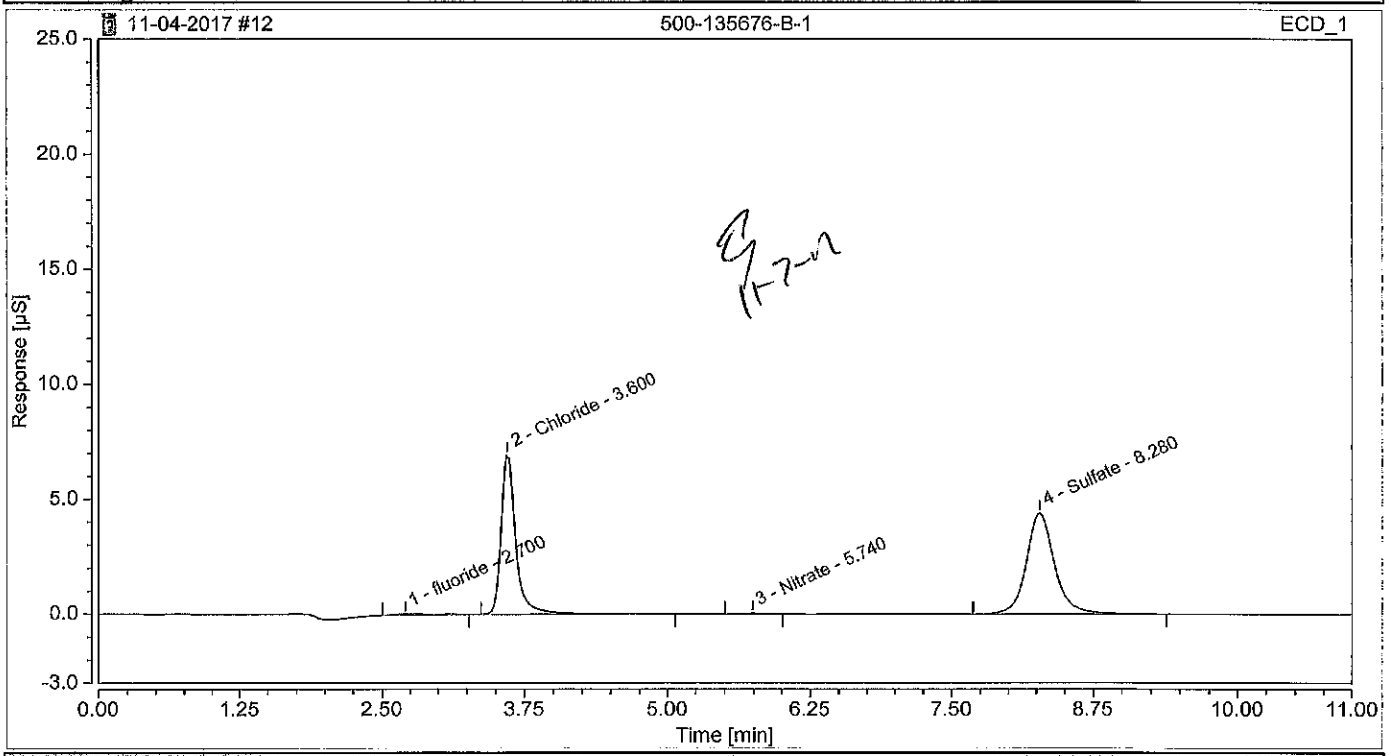
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.033	0.02139	0.061	0.70	0.42	n.a.
2	fluoride	2.640	0.00272	0.011	0.09	0.08	0.0126
3	Chloride	3.597	1.29822	8.633	42.64	59.20	81.3652
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.270	1.72209	5.879	56.57	40.31	145.9591
Total:			**3.044**	**14.583**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-1**	*Run Time (min):*	**11.00**
Vial Number:	**BA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**04/Nov/17 17:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

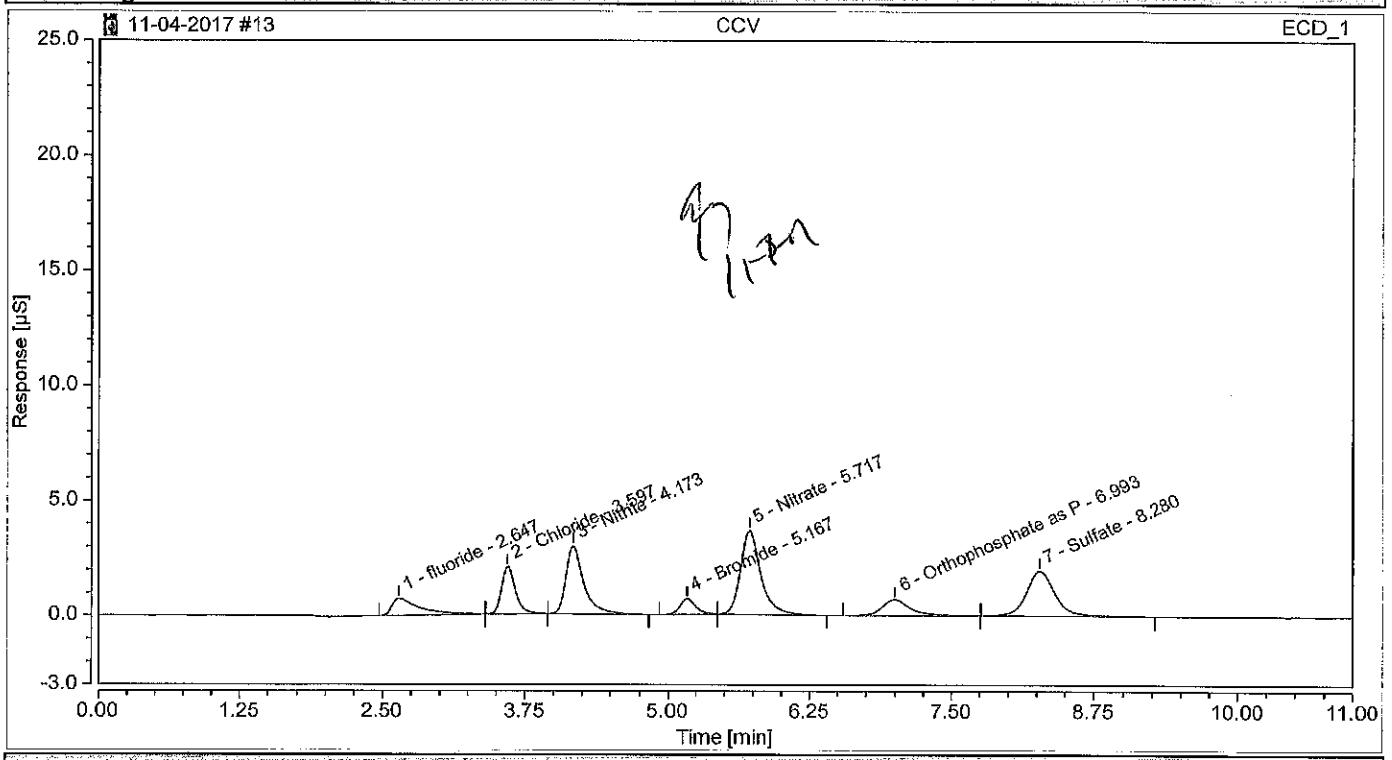
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.700	0.01304	0.033	0.57	0.29	1.3979
2	Chloride	3.600	1.00829	6.935	43.79	60.85	158.9739
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.740	0.00696	0.035	0.30	0.31	3.4198
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.280	1.27444	4.394	55.34	38.55	270.2959
Total:			**2.303**	**11.398**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 17:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

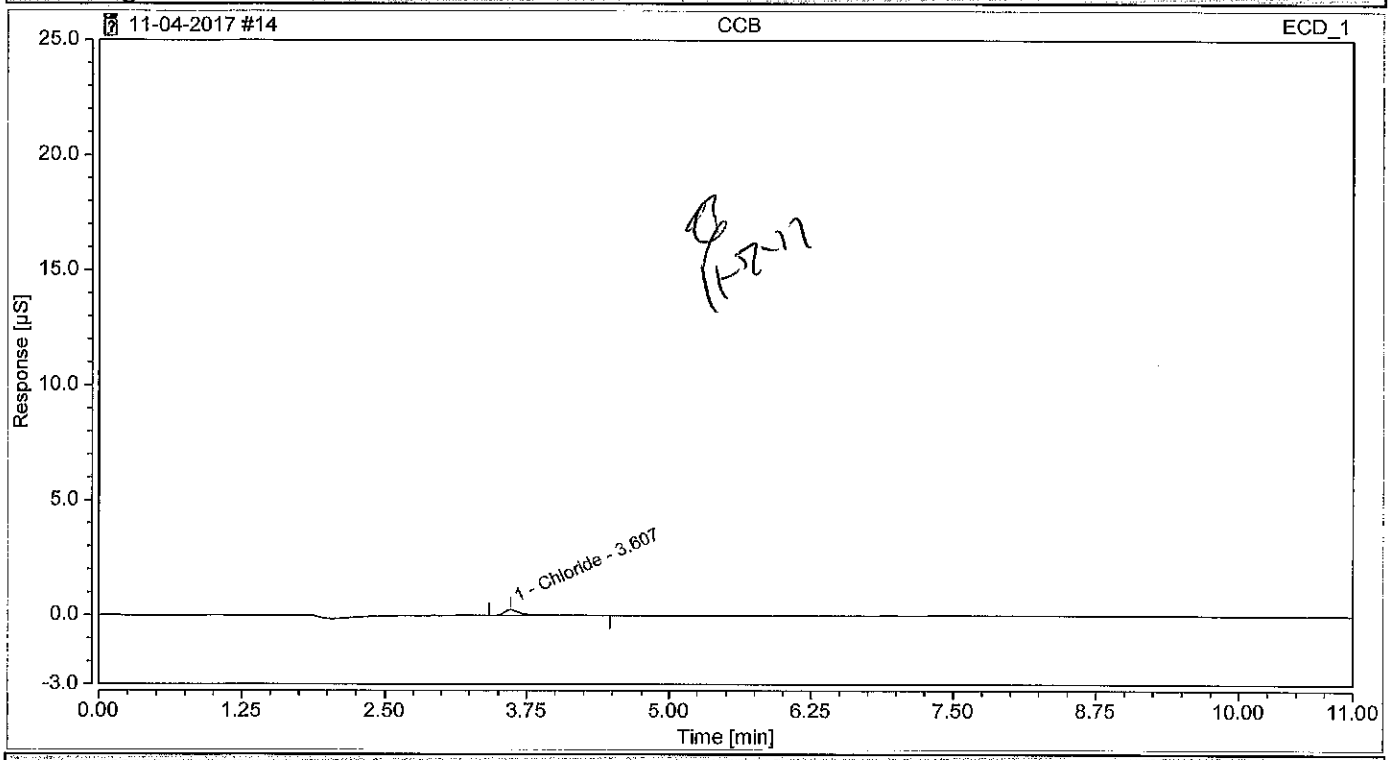
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.647	0.20989	0.742	7.80	5.84	0.5496
2	Chloride	3.597	0.28599	2.050	10.63	16.13	0.9652
3	Nitrite	4.173	0.54278	2.953	20.17	23.24	0.9836
4	Bromide	5.167	0.11596	0.674	4.31	5.31	0.9845
5	Nitrate	5.717	0.76365	3.642	28.37	28.66	0.9650
6	Orthophosphate as P	6.993	0.20265	0.692	7.53	5.44	0.9156
7	Sulfate	8.280	0.57044	1.956	21.20	15.39	2.4304
Total:			**2.691**	**12.709**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 17:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

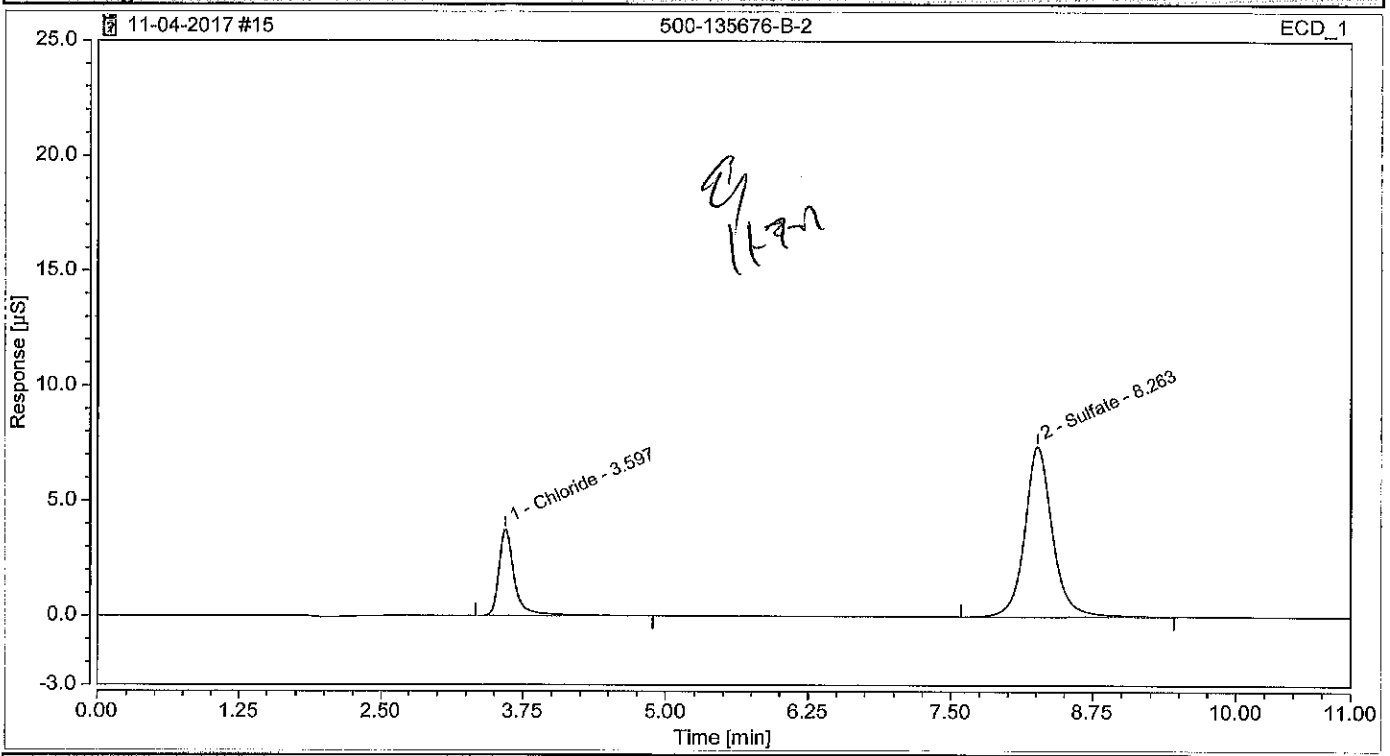
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.607	0.04633	0.249	100.00	100.00	0.2305
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.046**	**0.249**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-2**	*Run Time (min):*	**11.00**
Vial Number:	**BB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**04/Nov/17 18:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

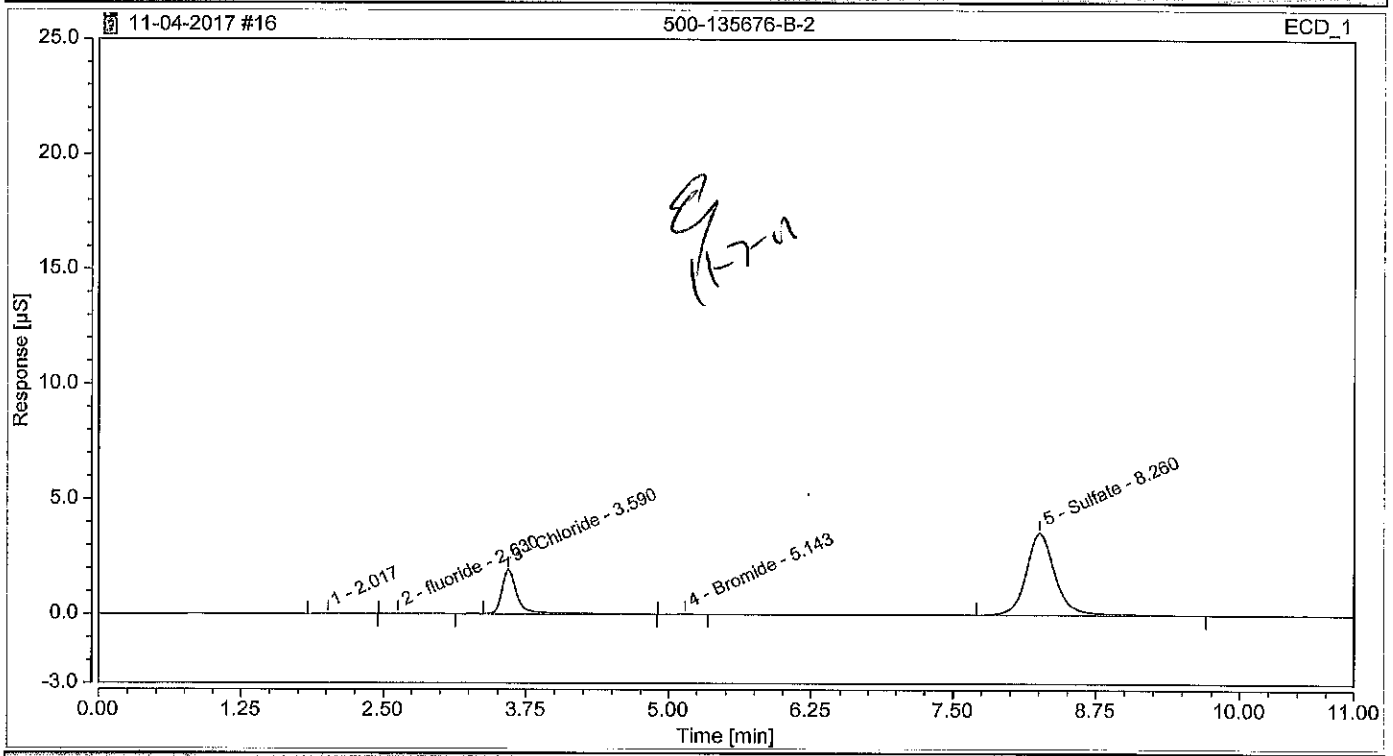
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.597	0.58572	3.759	21.54	33.67	18.8406
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	8.263	2.13318	7.405	78.46	66.33	90.3542
Total:			**2.719**	**11.164**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-2**	*Run Time (min):*	**11.00**
Vial Number:	**BB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**04/Nov/17 18:18**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

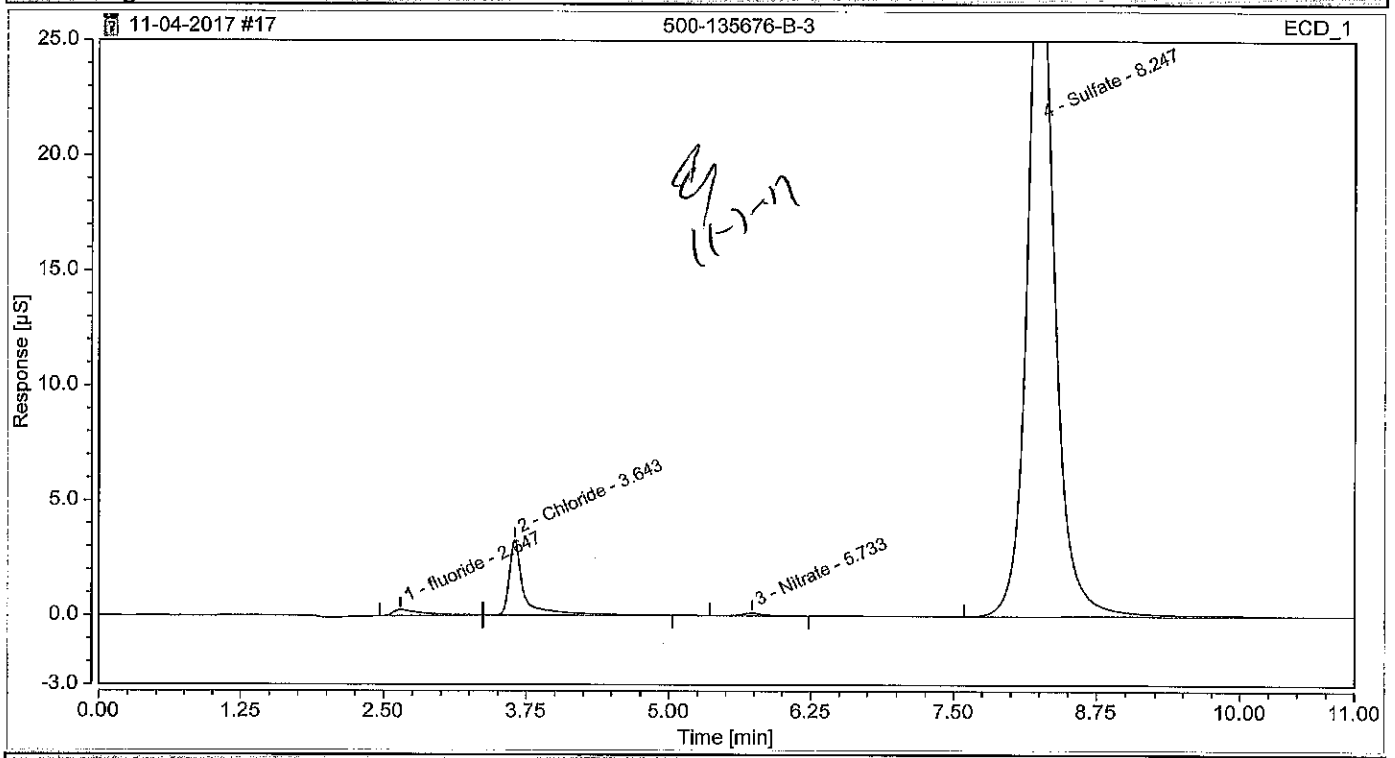
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.017	0.00516	0.017	0.38	0.31	n.a.
2	fluoride	2.630	0.00255	0.011	0.19	0.19	0.0036
3	Chloride	3.590	0.30218	1.927	22.18	34.83	20.2973
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.143	0.00194	0.010	0.14	0.18	0.9635
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.260	1.05078	3.569	77.11	64.50	89.2115
Total:			**1.363**	**5.533**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-3**	*Run Time (min):*	**11.00**
Vial Number:	**BB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 18:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

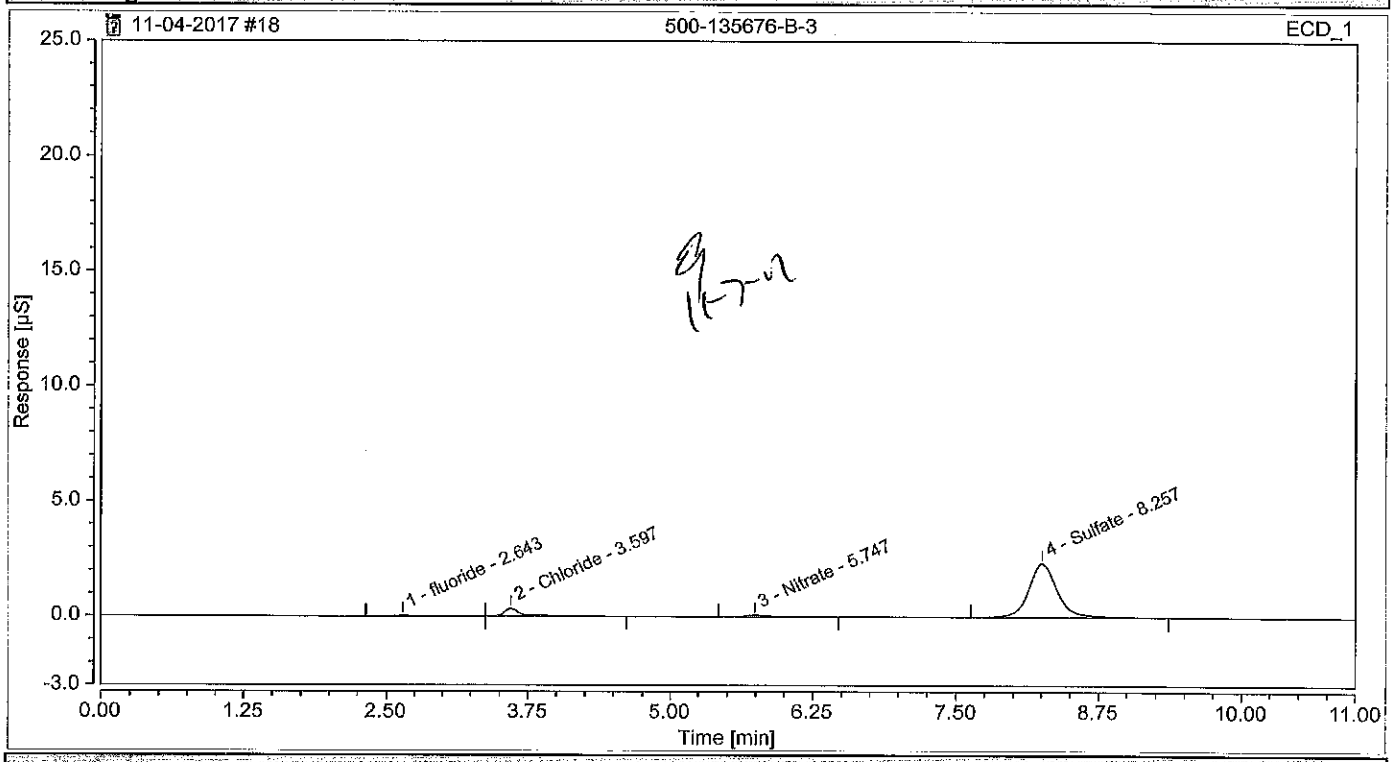
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.647	0.07770	0.262	0.86	0.76	0.1993
2	Chloride	3.643	0.48640	3.243	5.36	9.42	1.5796
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.733	0.02446	0.117	0.27	0.34	0.0891
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.247	8.48037	30.794	93.51	89.48	35.8623
Total:			**9.069**	**34.416**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-3**	*Run Time (min):*	**11.00**
Vial Number:	**BB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**04/Nov/17 18:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

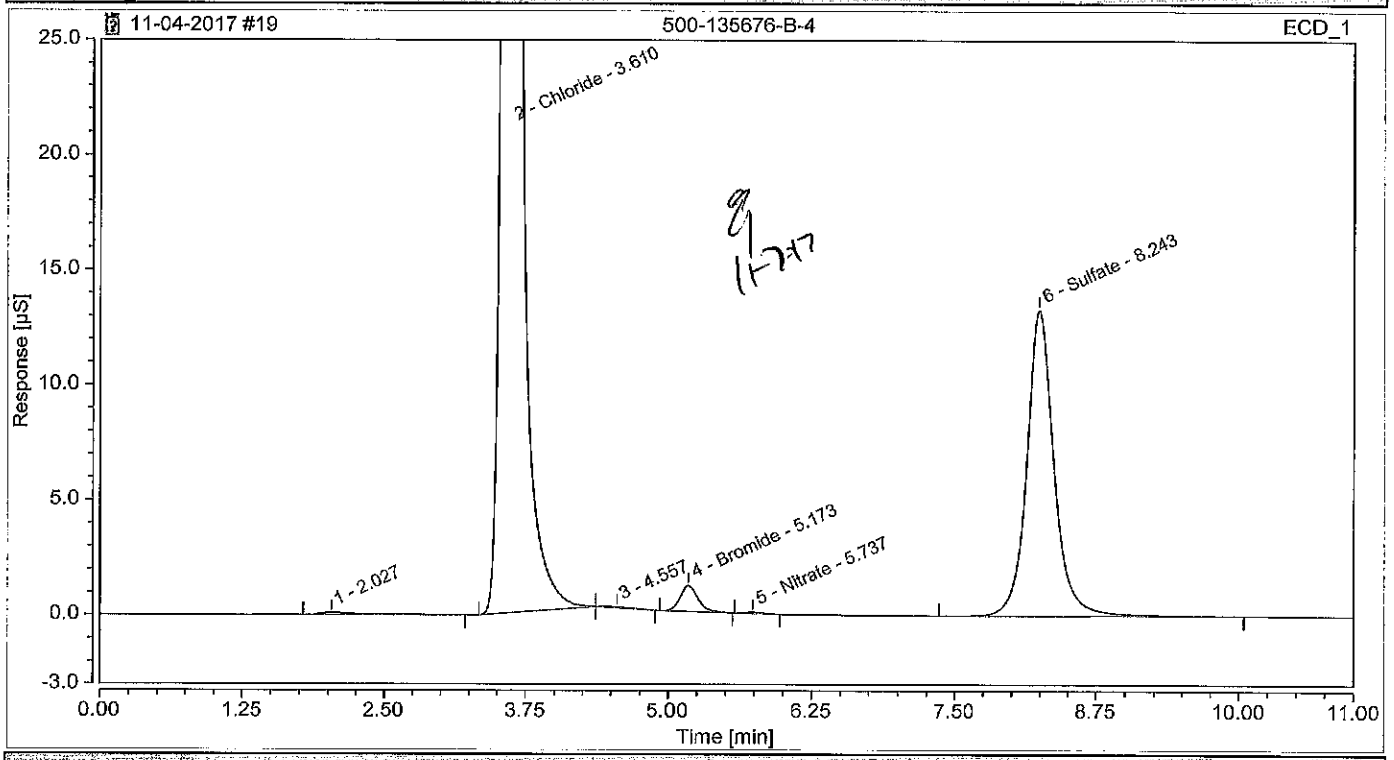
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.643	0.01227	0.033	1.57	1.19	0.2593
2	Chloride	3.597	0.06522	0.337	8.34	12.14	2.8844
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.747	0.01527	0.065	1.95	2.35	0.7825
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.257	0.68889	2.340	88.13	84.32	29.3103
Total:			**0.782**	**2.775**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-4**	*Run Time (min):*	**11.00**
Vial Number:	**BB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**04/Nov/17 18:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

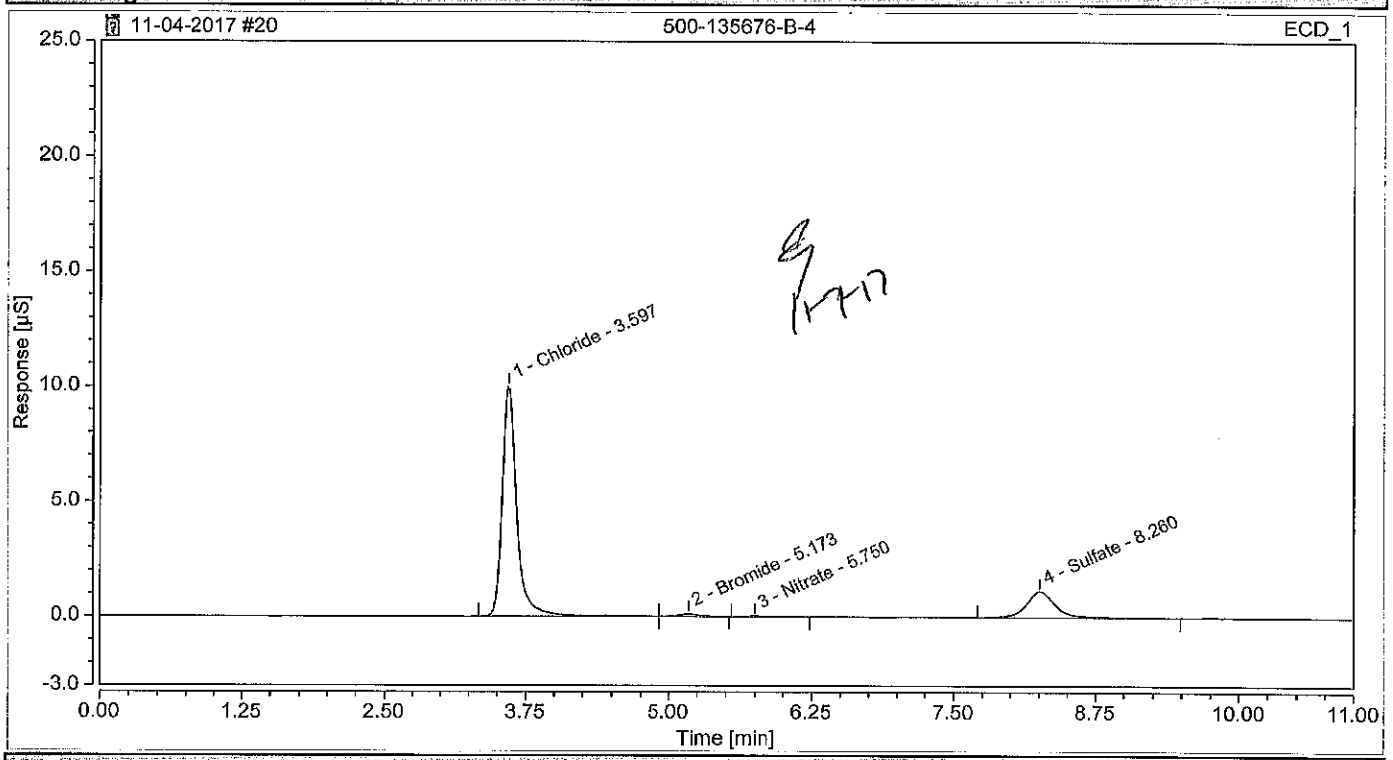
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.027	0.03945	0.092	0.17	0.06	n.a.
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Chloride	3.610	19.80896	142.827	82.99	90.72	12162.7828
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.557	0.00936	0.033	0.04	0.02	n.a.
4	Bromide	5.173	0.20444	1.129	0.86	0.72	342.2378
5	Nitrate	5.737	0.00922	0.055	0.04	0.03	14.2165
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.243	3.79863	13.295	15.91	8.45	3214.9154
Total:			**23.870**	**157.431**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-4**	*Run Time (min):*	**11.00**
Vial Number:	**BB6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**2000.0000**
Injection Date/Time:	**04/Nov/17 19:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

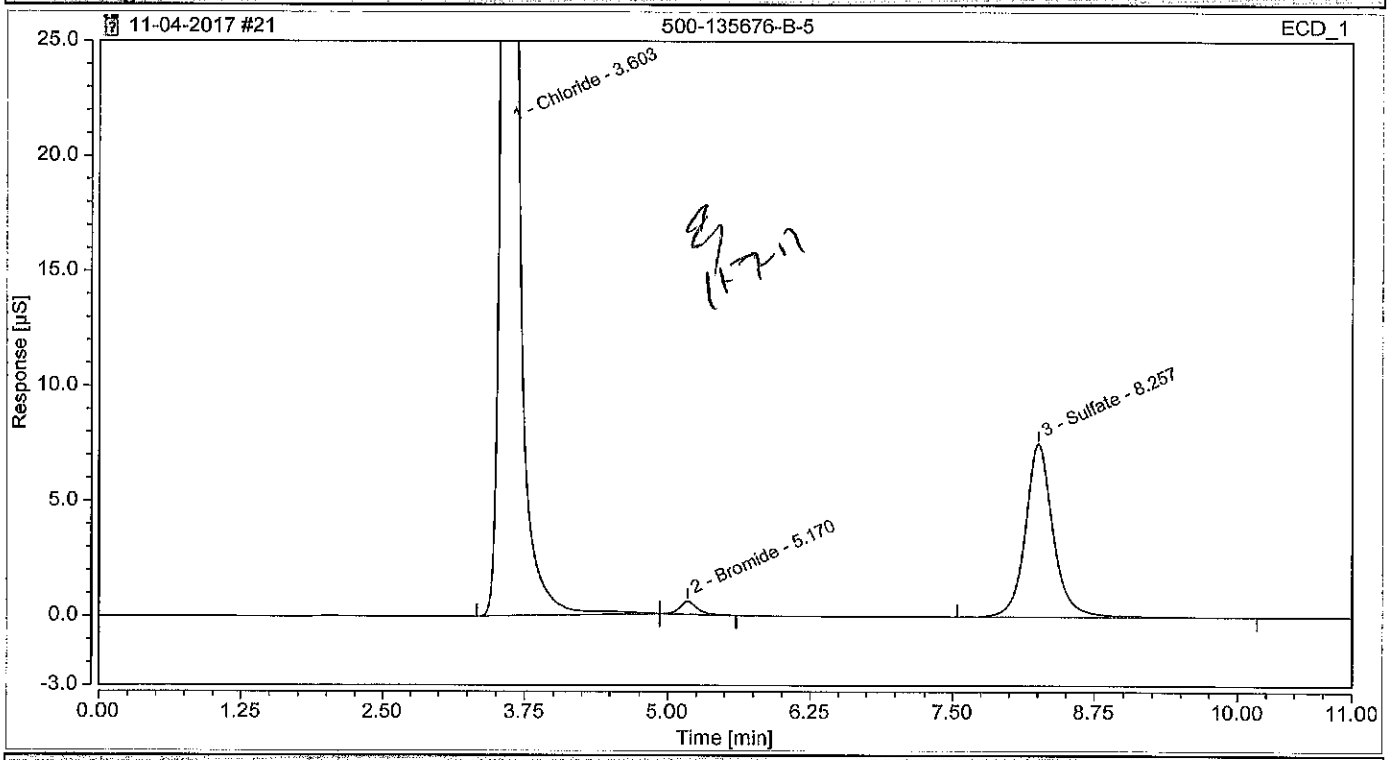
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.597	1.44649	9.999	79.94	88.85	9045.5883
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.173	0.01931	0.105	1.07	0.93	381.5242
3	Nitrate	5.750	0.00506	0.021	0.28	0.19	132.2913
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.260	0.33871	1.128	18.72	10.03	2901.9249
Total:			**1.810**	**11.254**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-5**	*Run Time (min):*	**11.00**
Vial Number:	**BB7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**04/Nov/17 19:19**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

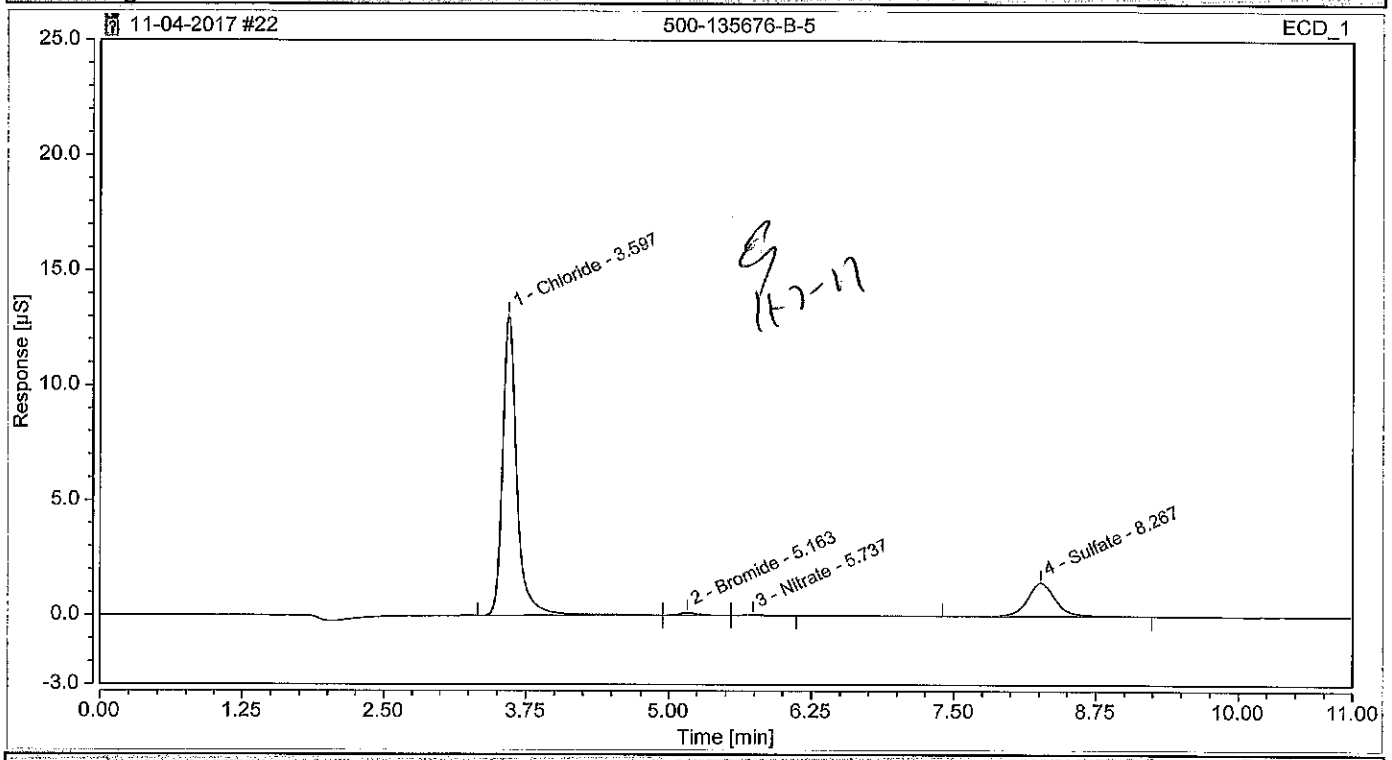
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.603	11.09163	79.501	82.90	90.76	3409.0495
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.170	0.10232	0.558	0.76	0.64	87.2553
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.257	2.18637	7.533	16.34	8.60	926.0243
Total:			**13.380**	**87.592**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-5**	*Run Time (min):*	**11.00**
Vial Number:	**BB8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**04/Nov/17 19:32**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

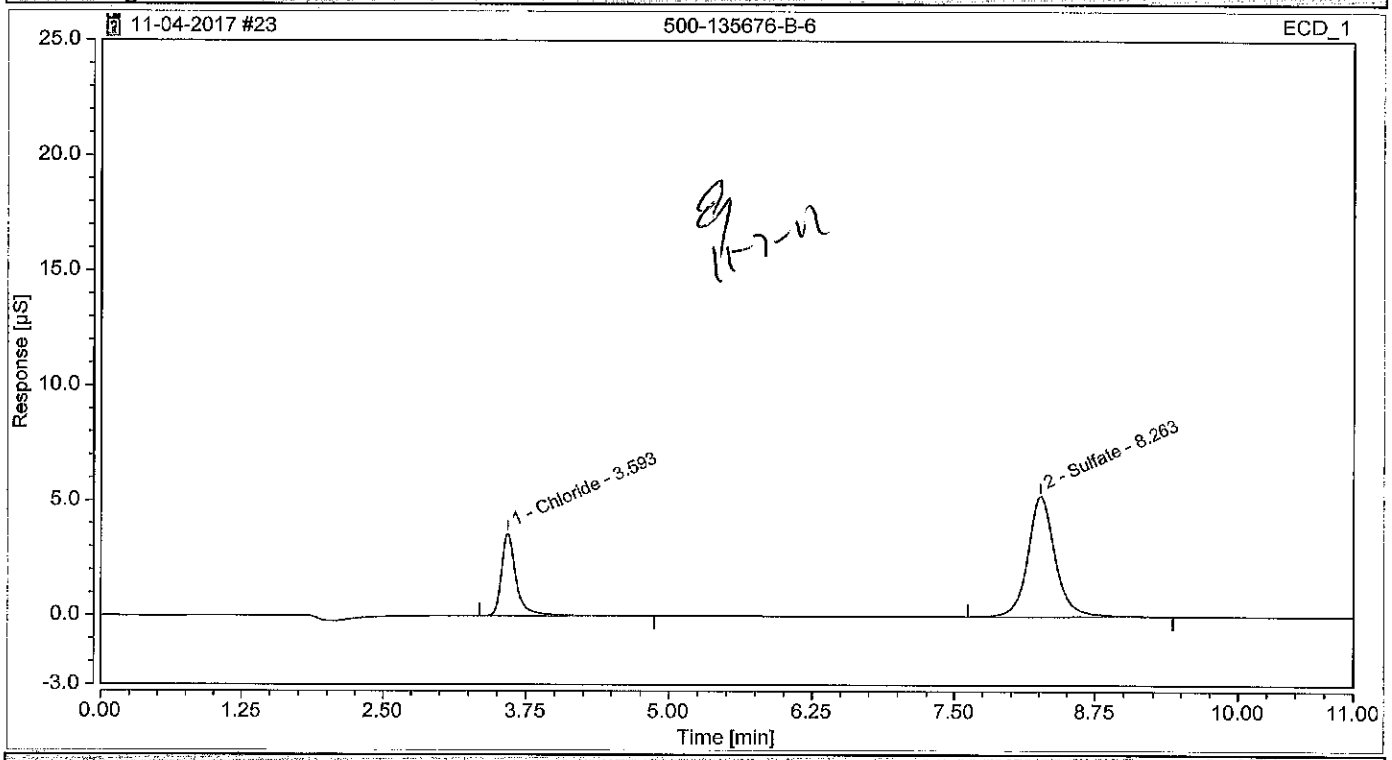
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.597	1.84888	13.078	80.29	89.08	2878.1672
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.163	0.02035	0.113	0.88	0.77	99.6847
3	Nitrate	5.737	0.00624	0.031	0.27	0.21	33.7734
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.267	0.42727	1.459	18.55	9.94	912.6364
Total:			**2.303**	**14.682**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-6**	*Run Time (min):*	**11.00**
Vial Number:	**BC1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**04/Nov/17 19:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

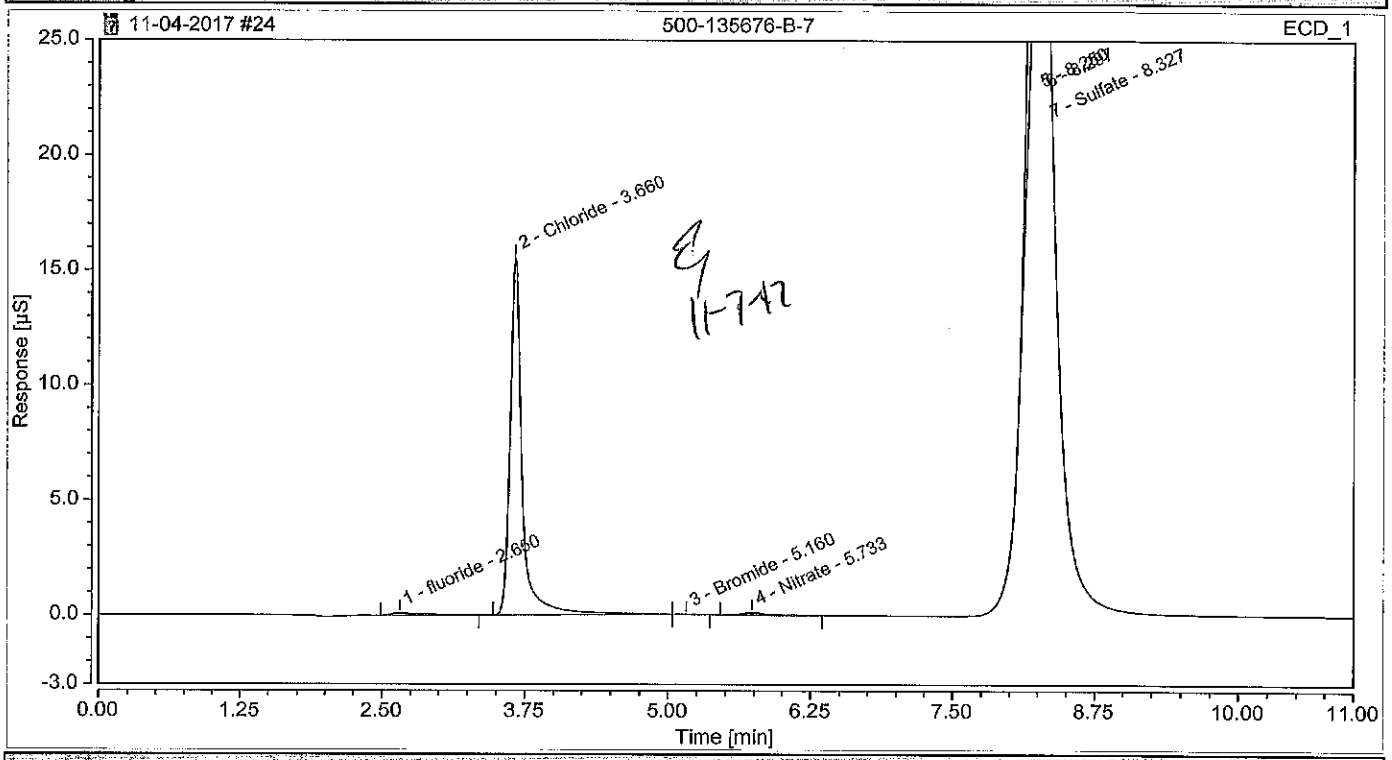
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.593	0.53196	3.578	26.07	40.60	85.9631
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	8.263	1.50887	5.236	73.93	59.40	319.8362
Total:			**2.041**	**8.815**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-7**	*Run Time (min):*	**11.00**
Vial Number:	**BC2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 19:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

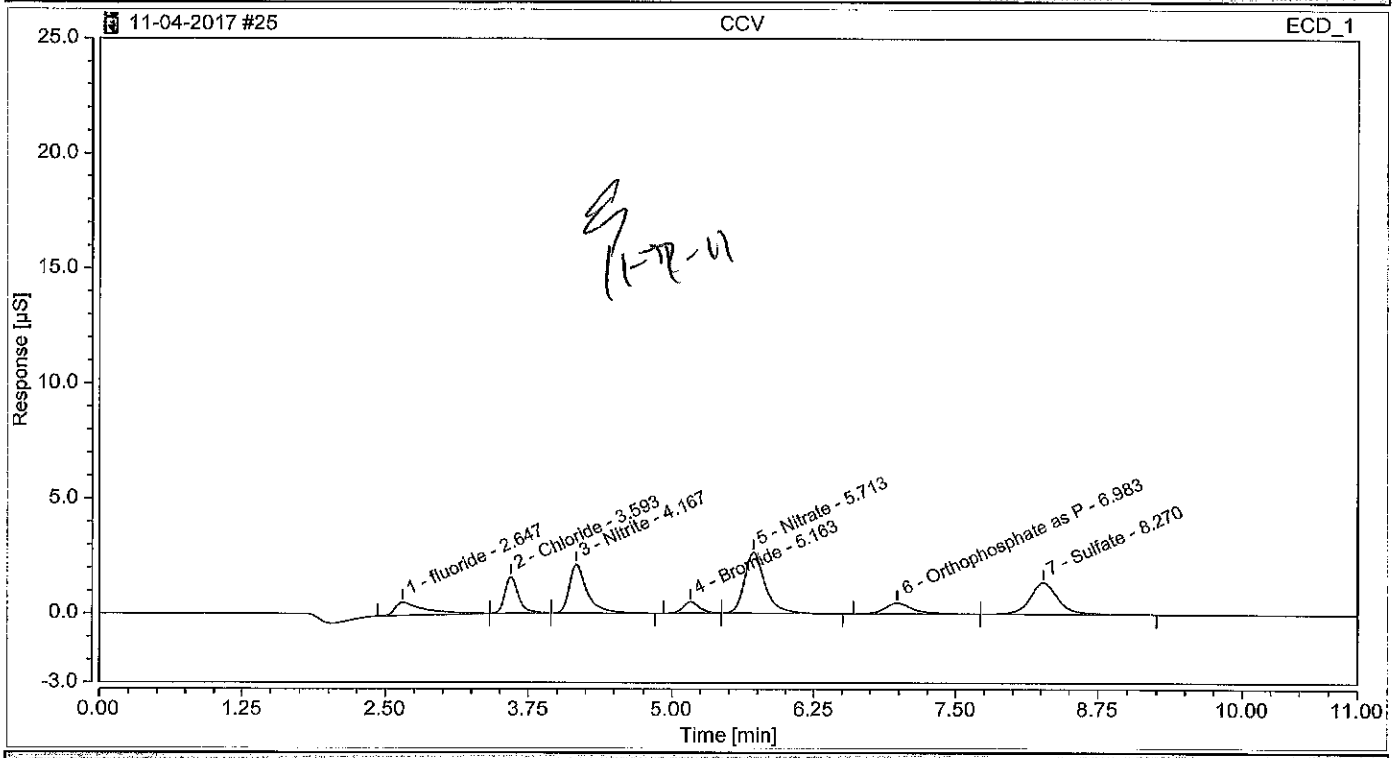
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.650	0.03069	0.102	0.95	0.41	0.0747
2	Chloride	3.660	1.90902	15.559	59.35	61.97	5.9407
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.160	0.00199	0.013	0.06	0.05	0.0485
4	Nitrate	5.733	0.02360	0.106	0.73	0.42	0.0881
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		8.250	1.24316	8.732	38.65	34.78	n.a.
6		8.297	0.00250	0.407	0.08	1.62	n.a.
7	Sulfate	8.327	0.00581	0.189	0.18	0.75	0.0440
Total:			**3.217**	**25.108**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 20:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

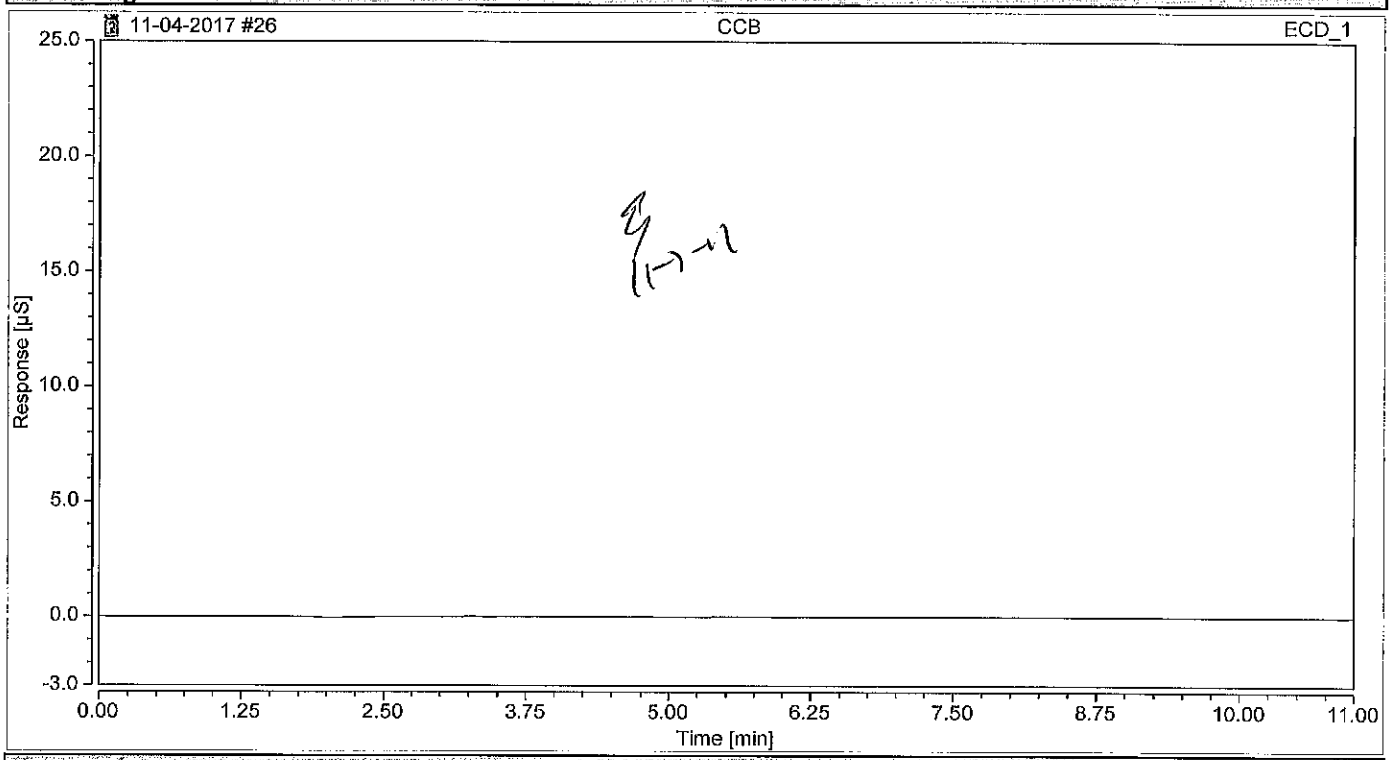
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.647	0.17286	0.568	8.85	6.14	0.4514
2	Chloride	3.593	0.21638	1.582	11.07	17.09	0.7518
3	Nitrite	4.167	0.38888	2.119	19.90	22.89	0.7361
4	Bromide	5.163	0.08519	0.495	4.36	5.35	0.7318
5	Nitrate	5.713	0.55706	2.645	28.50	28.58	0.7202
6	Orthophosphate as P	6.983	0.13525	0.469	6.92	5.07	0.6466
7	Sulfate	8.270	0.39867	1.376	20.40	14.87	1.7044
Total:			**1.954**	**9.254**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 20:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

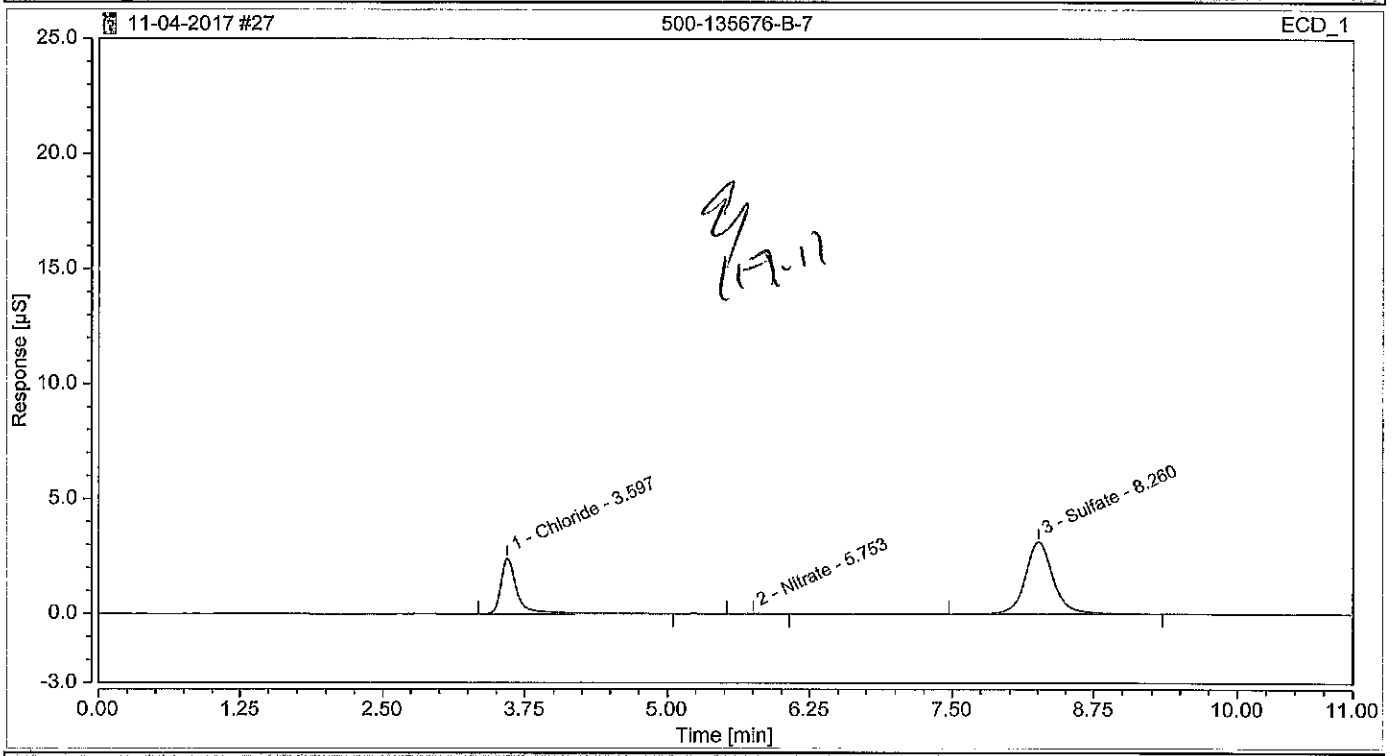
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-7**	*Run Time (min):*	**11.00**
Vial Number:	**BC3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**04/Nov/17 20:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

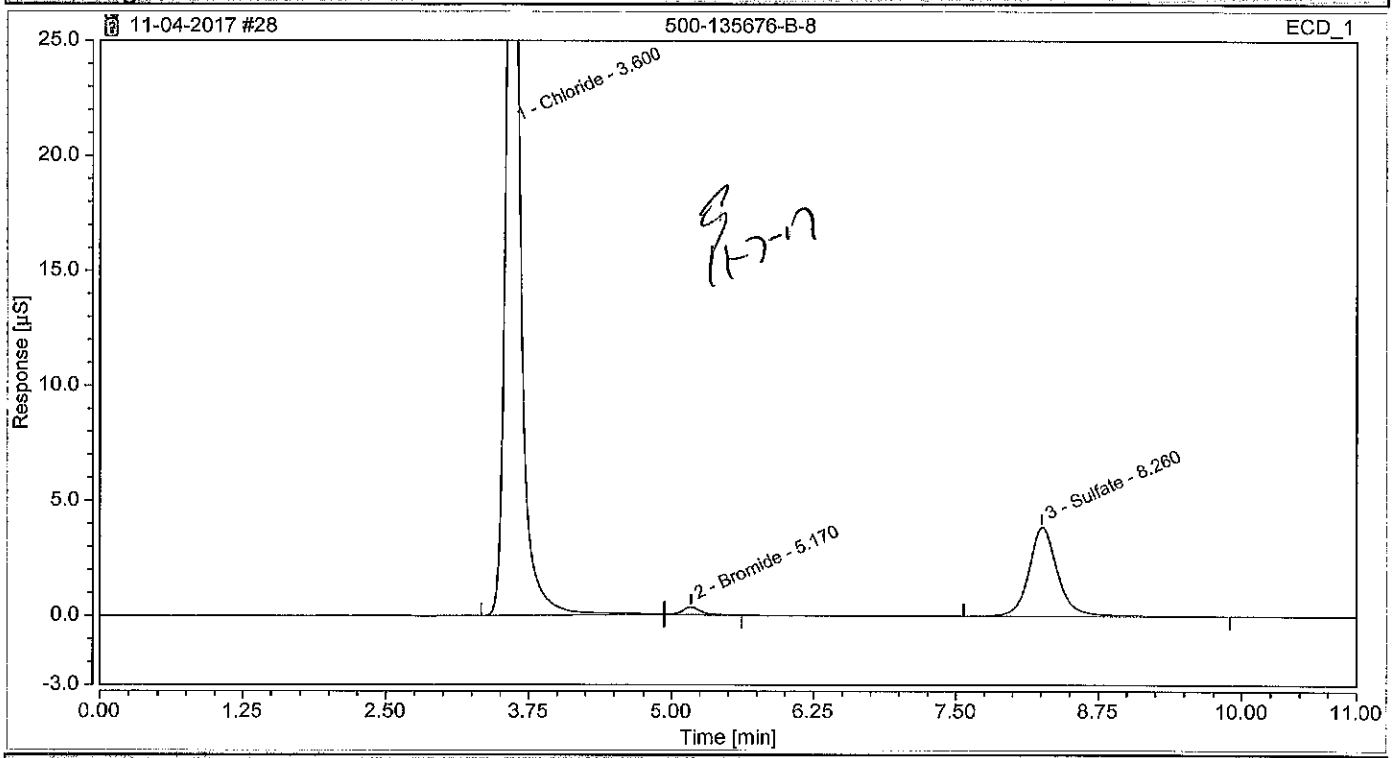
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.597	0.39921	2.411	30.25	43.34	13.1230
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.753	0.00258	0.012	0.20	0.21	0.6321
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.260	0.91786	3.141	69.55	56.46	38.9881
Total:			**1.320**	**5.564**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-8**	*Run Time (min):*	**11.00**
Vial Number:	**BC4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**04/Nov/17 20:46**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

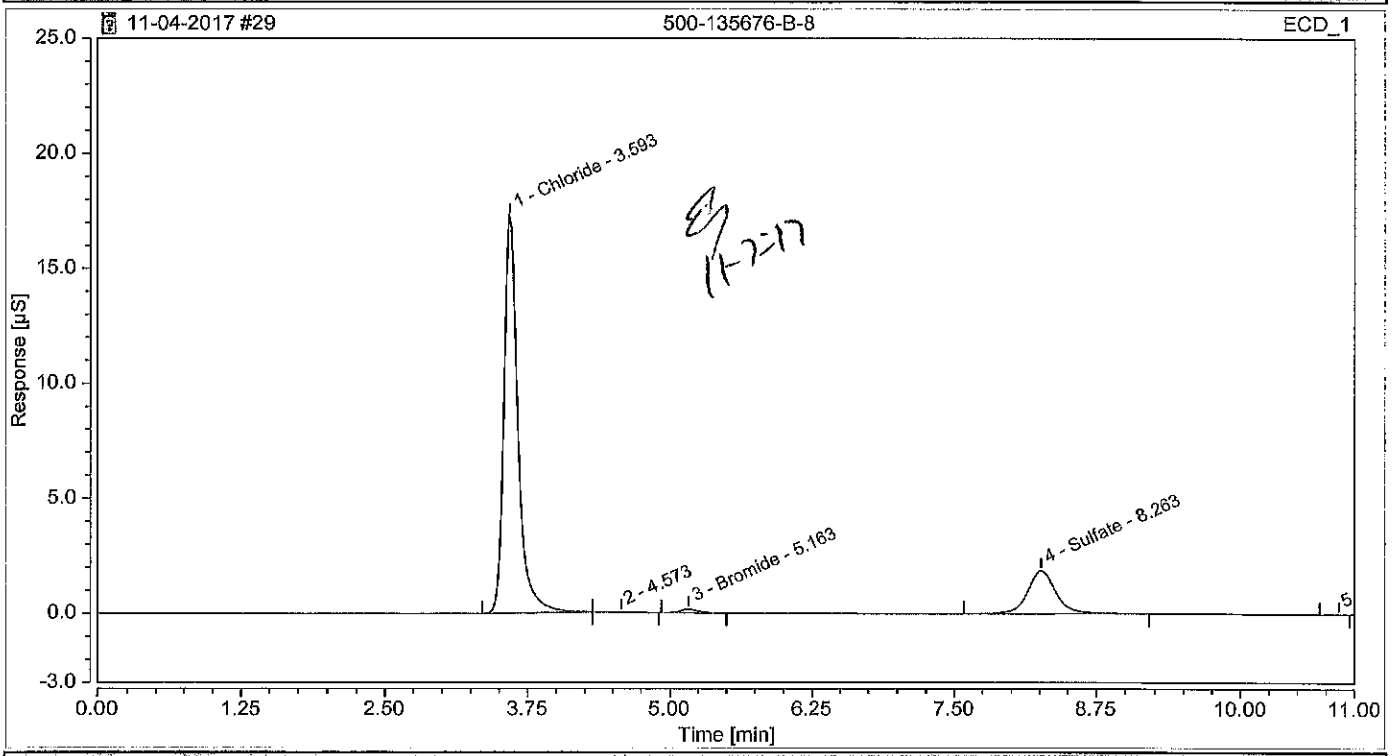
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.600	5.50441	39.377	82.13	90.37	1696.2569
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.170	0.05988	0.324	0.89	0.74	52.3968
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.260	1.13801	3.871	16.98	8.88	482.9260
Total:			**6.702**	**43.572**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-8**	*Run Time (min):*	**11.00**
Vial Number:	**BC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**04/Nov/17 20:58**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

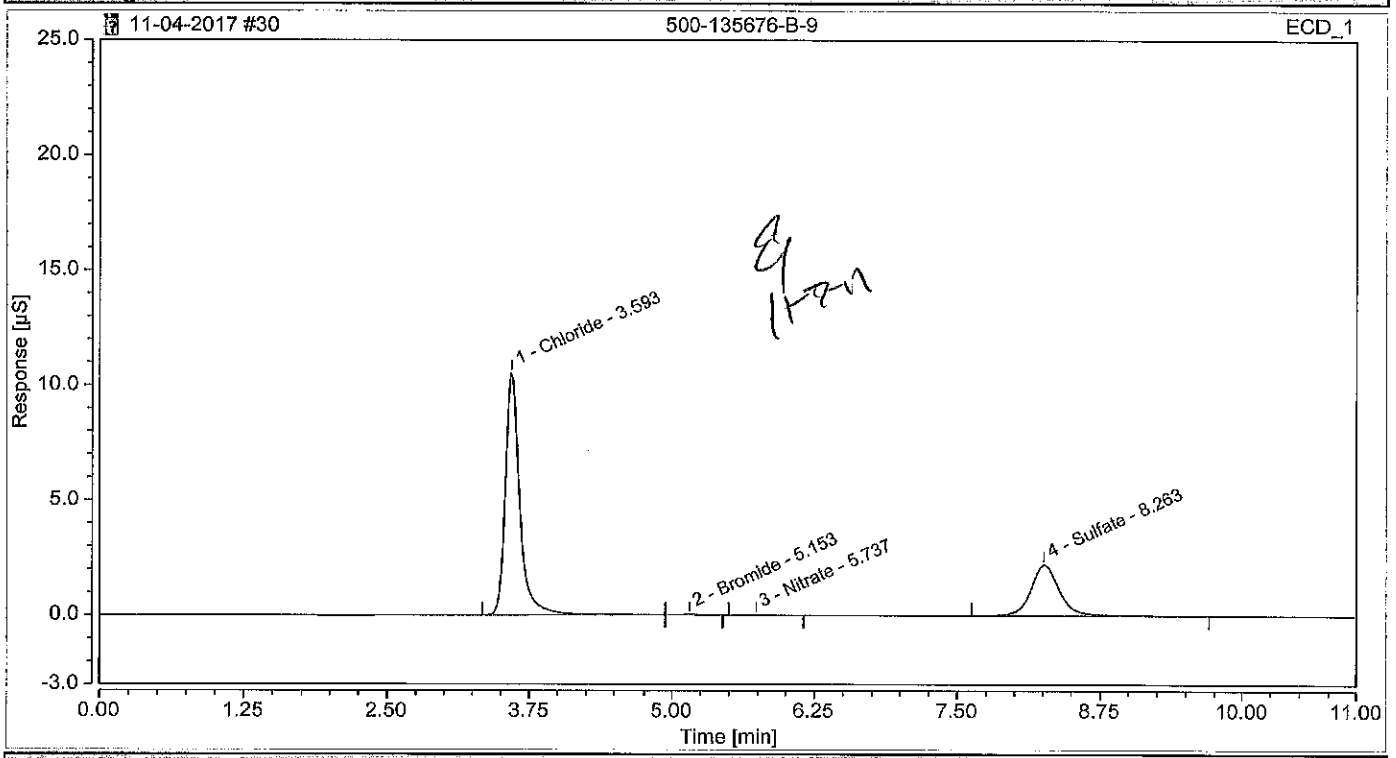
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.593	2.42077	17.272	80.71	89.46	1501.9035
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		4.573	0.00207	0.007	0.07	0.04	n.a.
3	Bromide	5.163	0.02943	0.161	0.98	0.83	54.7871
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.263	0.54674	1.863	18.23	9.65	466.0493
5		10.863	0.00048	0.004	0.02	0.02	n.a.
Total:			**3.000**	**19.307**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-9**	*Run Time (min):*	**11.00**
Vial Number:	**BC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**04/Nov/17 21:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

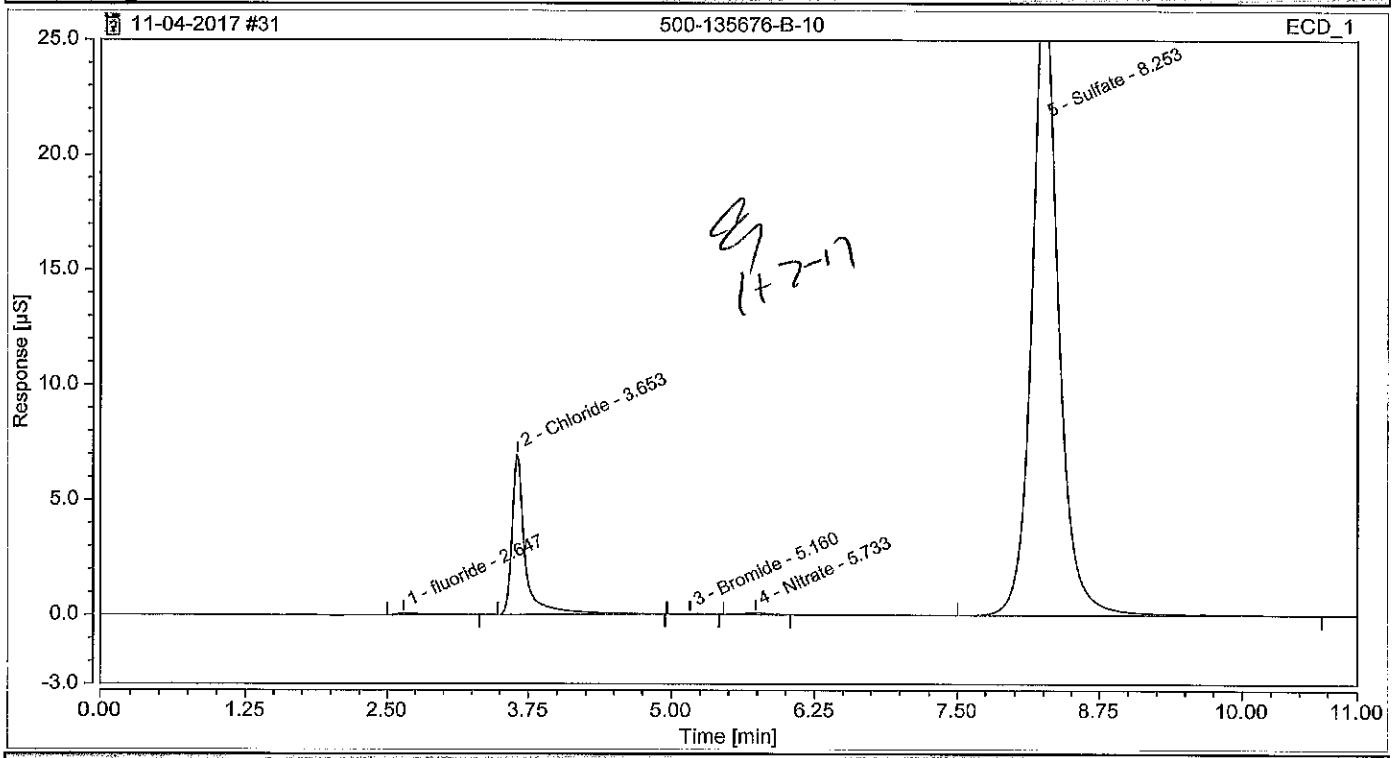
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride RL	3.593	1.54227	10.532	69.86	82.35	481.6424
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.153	0.00457	0.024	0.21	0.19	6.9720
3	Nitrate	5.737	0.00408	0.017	0.18	0.13	6.4987
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate RL	8.263	0.65686	2.216	29.75	17.33	279.5658
Total:			**2.208**	**12.790**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-10**	*Run Time (min):*	**11.00**
Vial Number:	**BC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**04/Nov/17 21:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

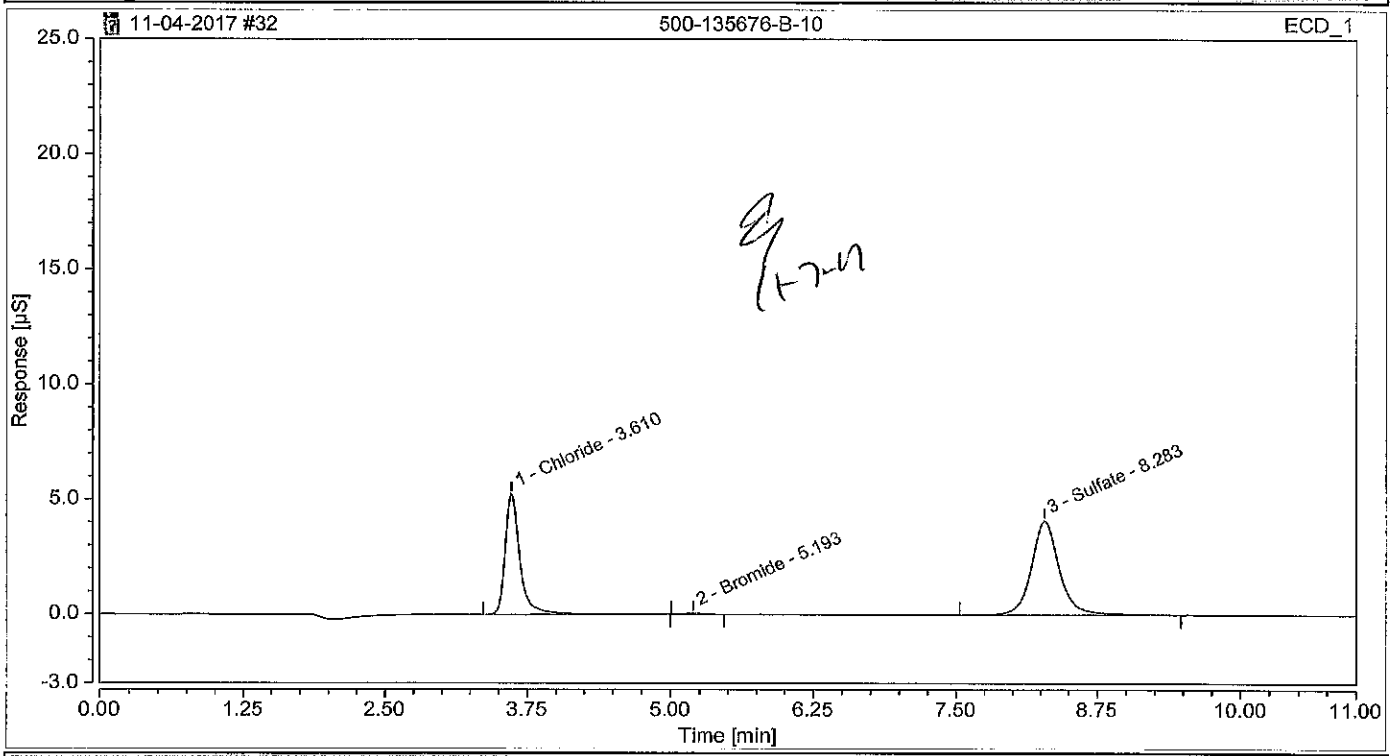
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.647	0.02332	0.076	0.27	0.22	0.5520
2	Chloride	3.653	0.94317	6.955	10.98	20.02	29.7985
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.160	0.00468	0.027	0.05	0.08	0.7065
4	Nitrate	5.733	0.01731	0.086	0.20	0.25	0.8066
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.253	7.60069	27.596	88.49	79.43	321.4425
Total:			**8.589**	**34.741**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-10**	*Run Time (min):*	**11.00**
Vial Number:	**BC8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**04/Nov/17 21:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

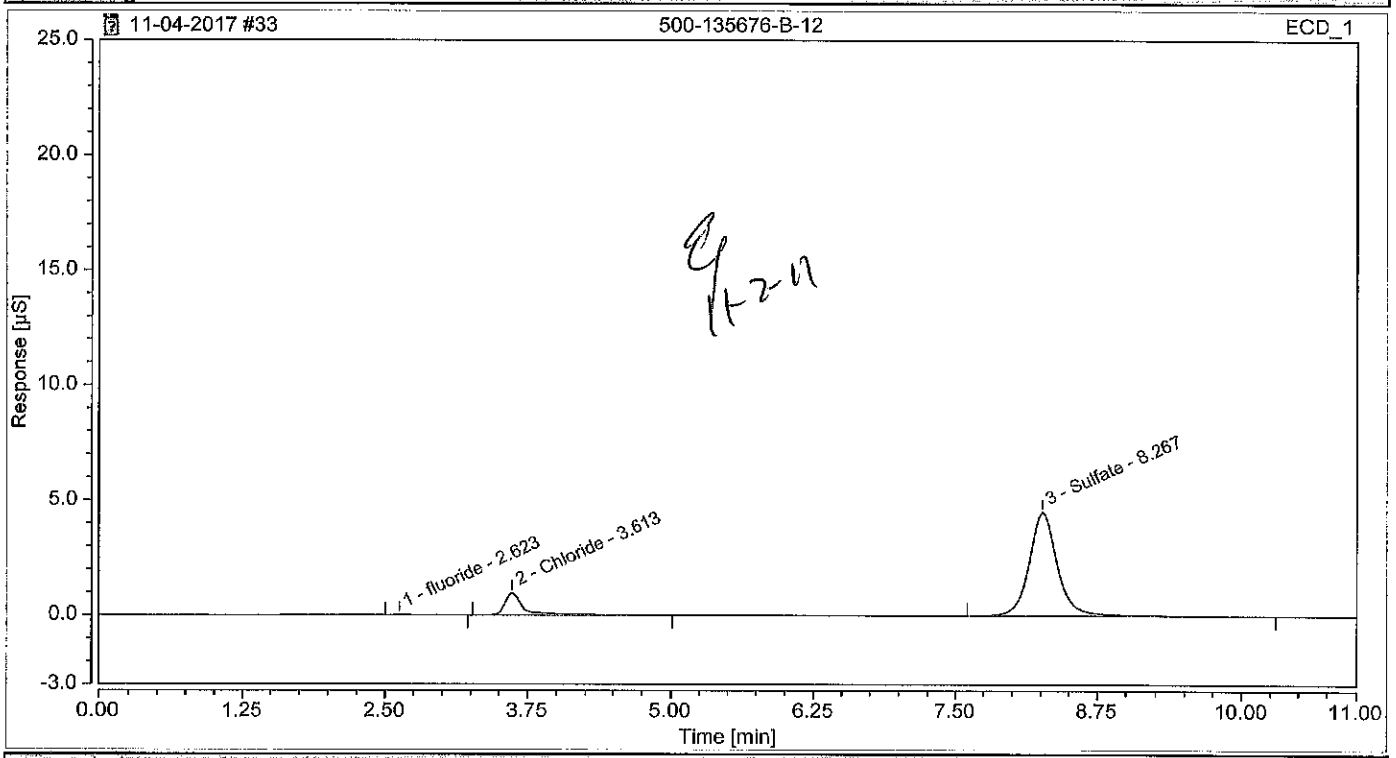
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.610	0.77902	5.231	39.46	55.91	61.9159
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.193	0.00711	0.040	0.36	0.43	2.2650
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.283	1.18827	4.084	60.18	43.65	126.0422
Total:			**1.974**	**9.356**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-12**	*Run Time (min):*	**11.00**
Vial Number:	**BD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**5.0000**
Injection Date/Time:	**04/Nov/17 21:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

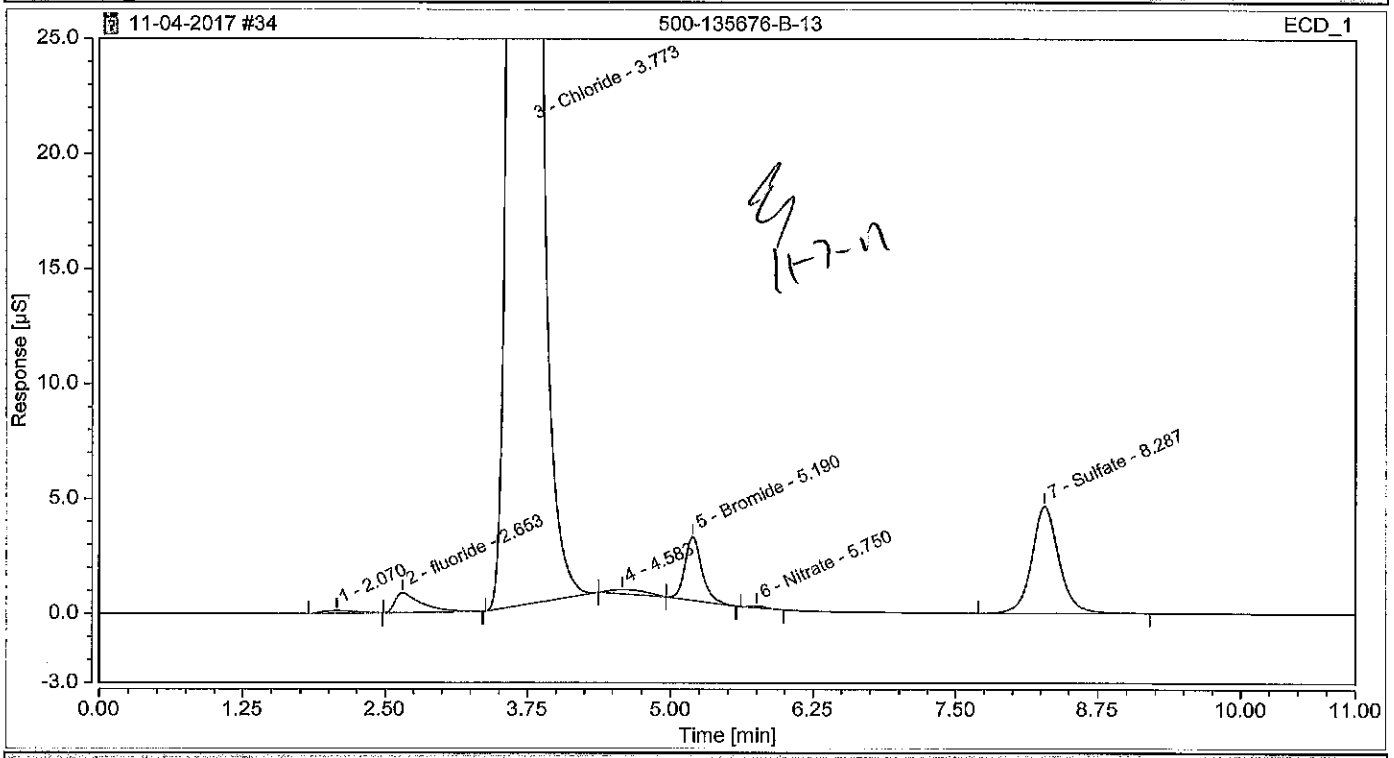
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.623	0.00366	0.014	0.24	0.25	0.0156
2	Chloride	3.613	0.18534	0.948	12.25	17.34	3.2834
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.267	1.32367	4.505	87.51	82.41	28.0699
Total:			**1.513**	**5.467**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-13**	*Run Time (min):*	**11.00**
Vial Number:	**BD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 22:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

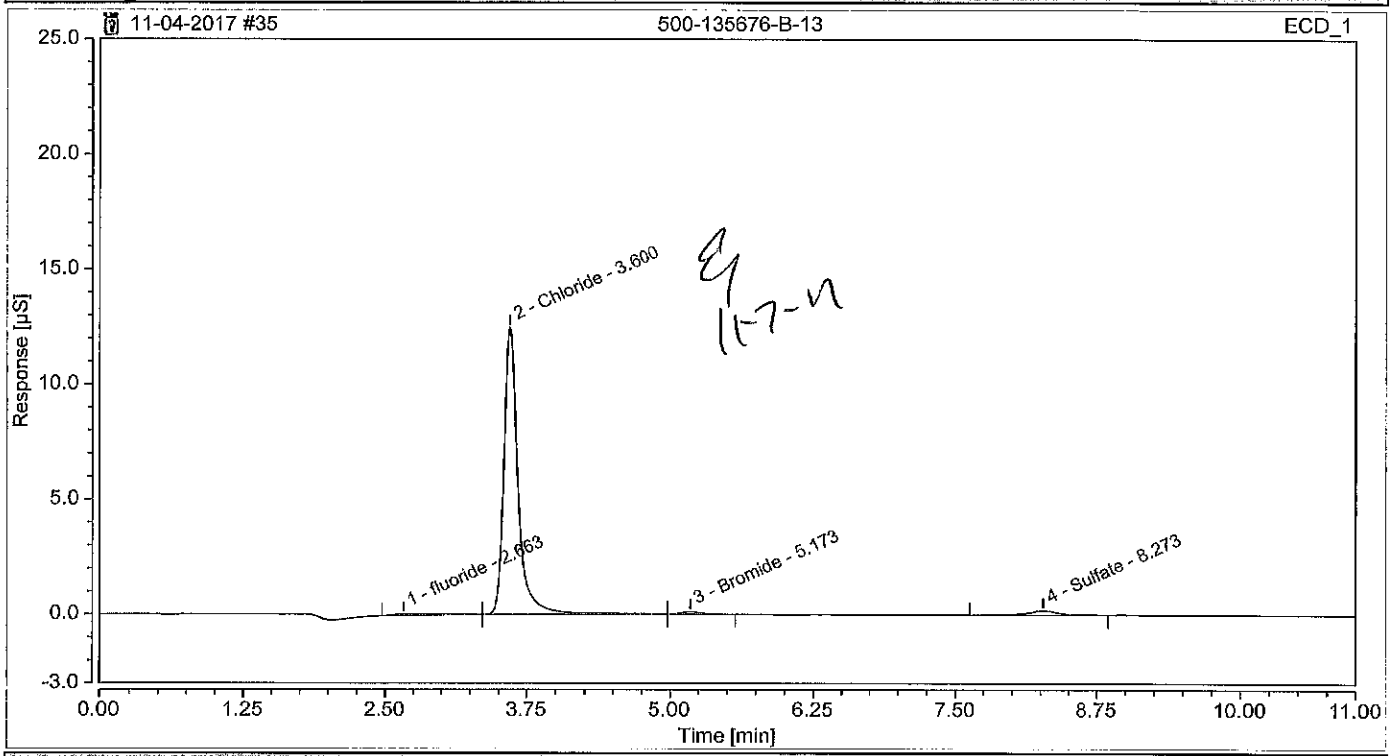
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.070	0.03592	0.107	0.05	0.03	n.a.
2	fluoride	2.653	0.23037	0.854	0.34	0.22	0.6038
3	Chloride	3.773	65.02668	383.883	96.81	97.80	199.4312
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		4.583	0.07037	0.187	0.10	0.05	n.a.
5	Bromide	5.190	0.48151	2.768	0.72	0.71	3.9866
6	Nitrate	5.750	0.01196	0.073	0.02	0.02	0.0743
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	8.287	1.31222	4.652	1.95	1.19	5.5656
Total:			**67.169**	**392.522**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-13**	*Run Time (min):*	**11.00**
Vial Number:	**BD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**04/Nov/17 22:12**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

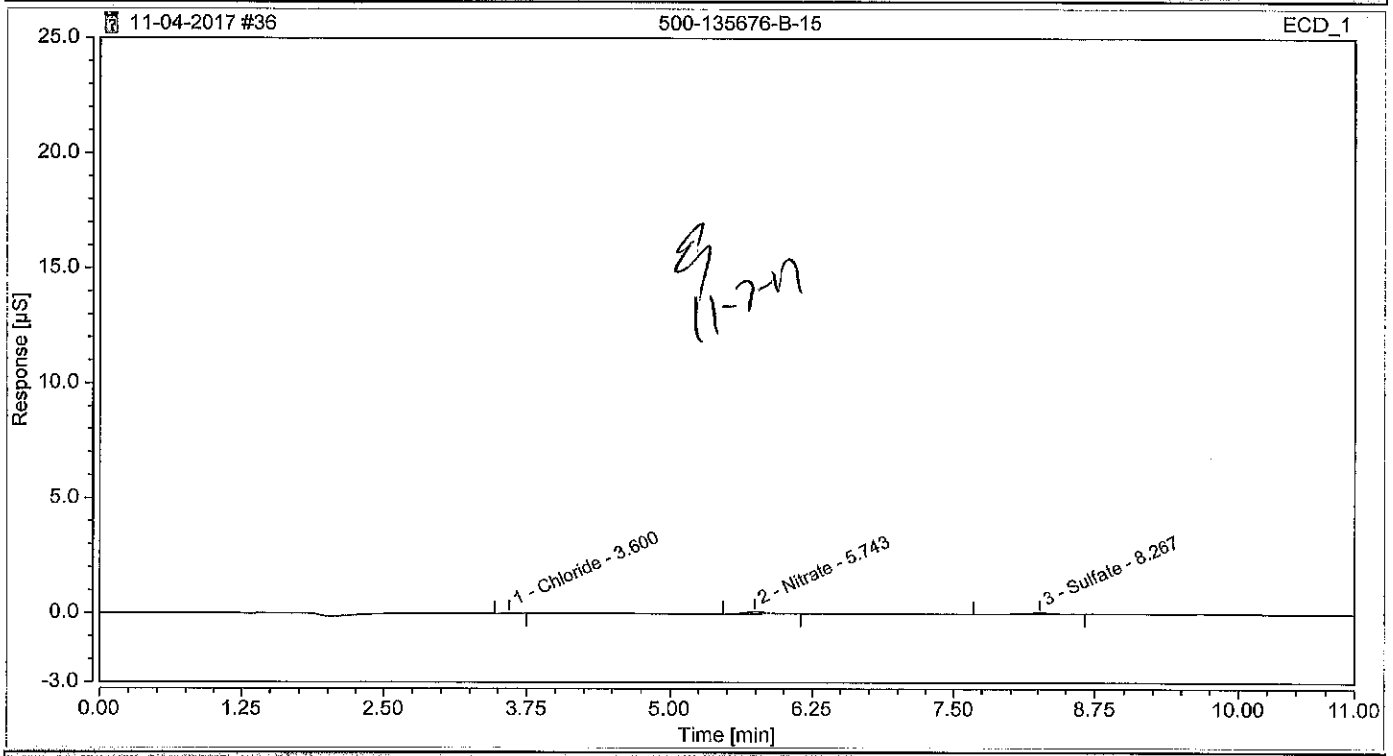
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.663	0.02174	0.050	1.15	0.39	1.2755
2	Chloride	3.600	1.78667	12.465	94.66	97.37	139.1408
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.173	0.01862	0.102	0.99	0.80	4.6289
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.273	0.06043	0.184	3.20	1.44	6.8697
Total:			**1.887**	**12.801**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-15**	*Run Time (min):*	**11.00**
Vial Number:	**BD4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 22:25**	*Sample Weight:*	**1.0000**

Chromatogram



11-7-17

Integration Results

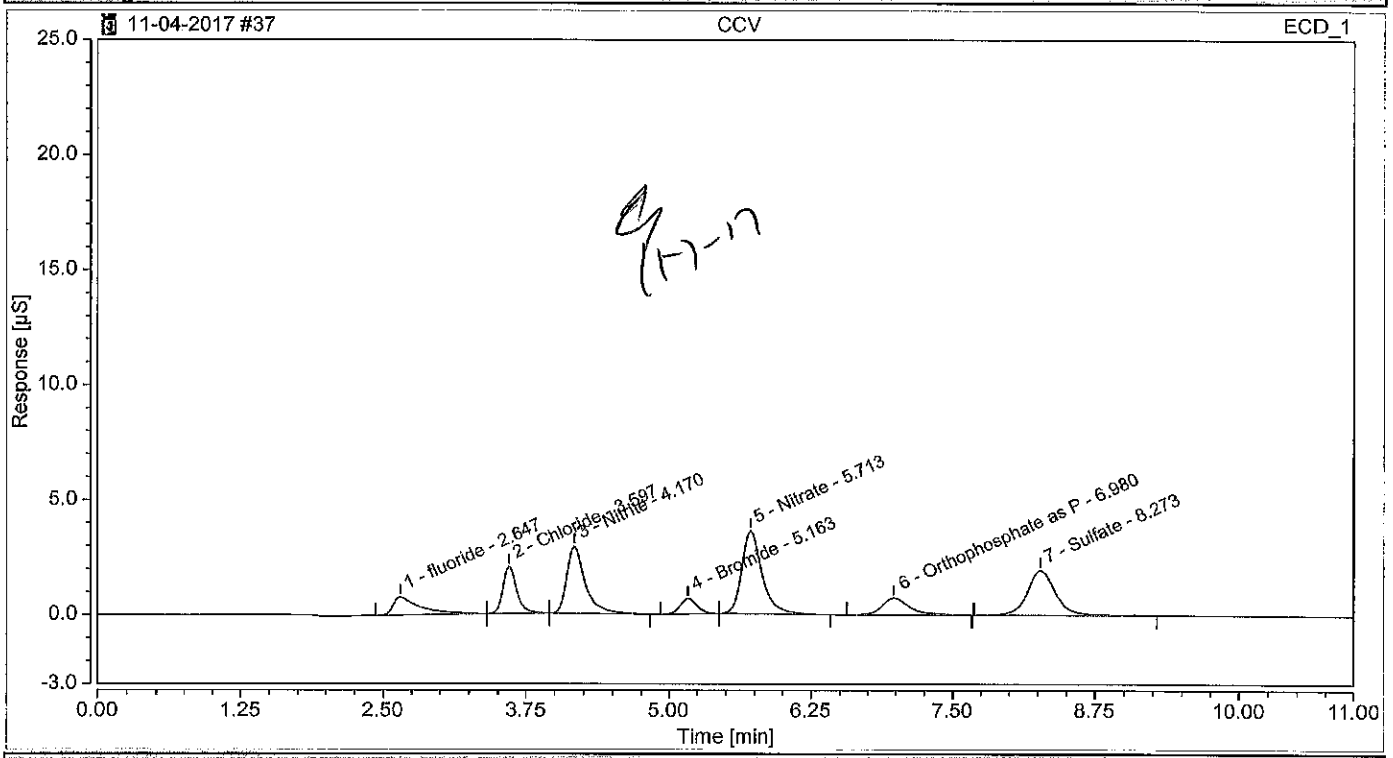
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride RC	3.600	0.00254	0.020	7.13	12.38	0.0963
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.743	0.01881	0.089	52.81	55.73	0.0824
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate RC	8.267	0.01427	0.051	40.06	31.89	0.0797
Total:			**0.036**	**0.160**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 22:37**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

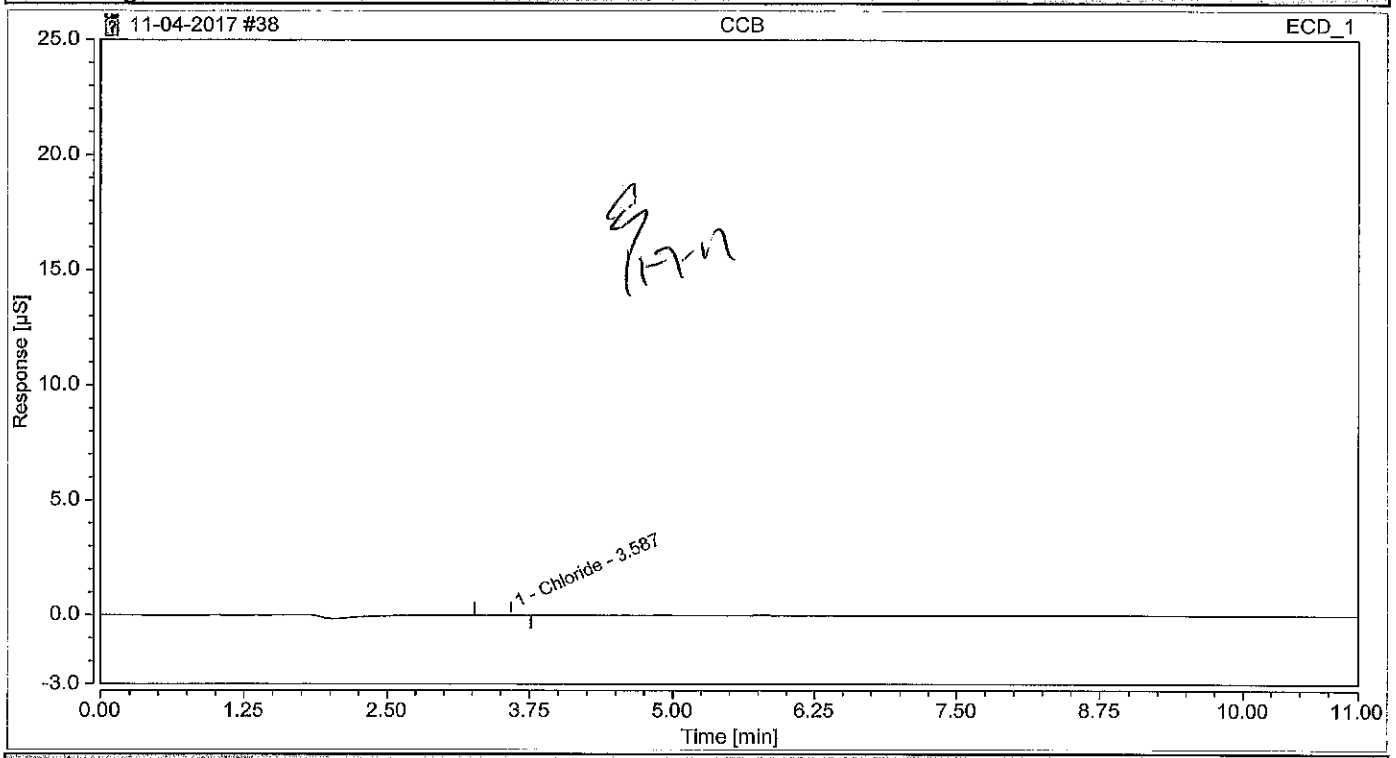
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.647	0.21562	0.778	8.02	6.12	0.5647
2	Chloride	3.597	0.28526	2.047	10.61	16.11	0.9630
3	Nitrite	4.170	0.53589	2.922	19.93	22.99	0.9726
4	Bromide	5.163	0.11630	0.672	4.33	5.29	0.9873
5	Nitrate	5.713	0.75698	3.608	28.16	28.39	0.9571
6	Orthophosphate as P	6.980	0.21024	0.733	7.82	5.77	0.9458
7	Sulfate	8.273	0.56822	1.948	21.14	15.33	2.4210
Total:			**2.689**	**12.708**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 22:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

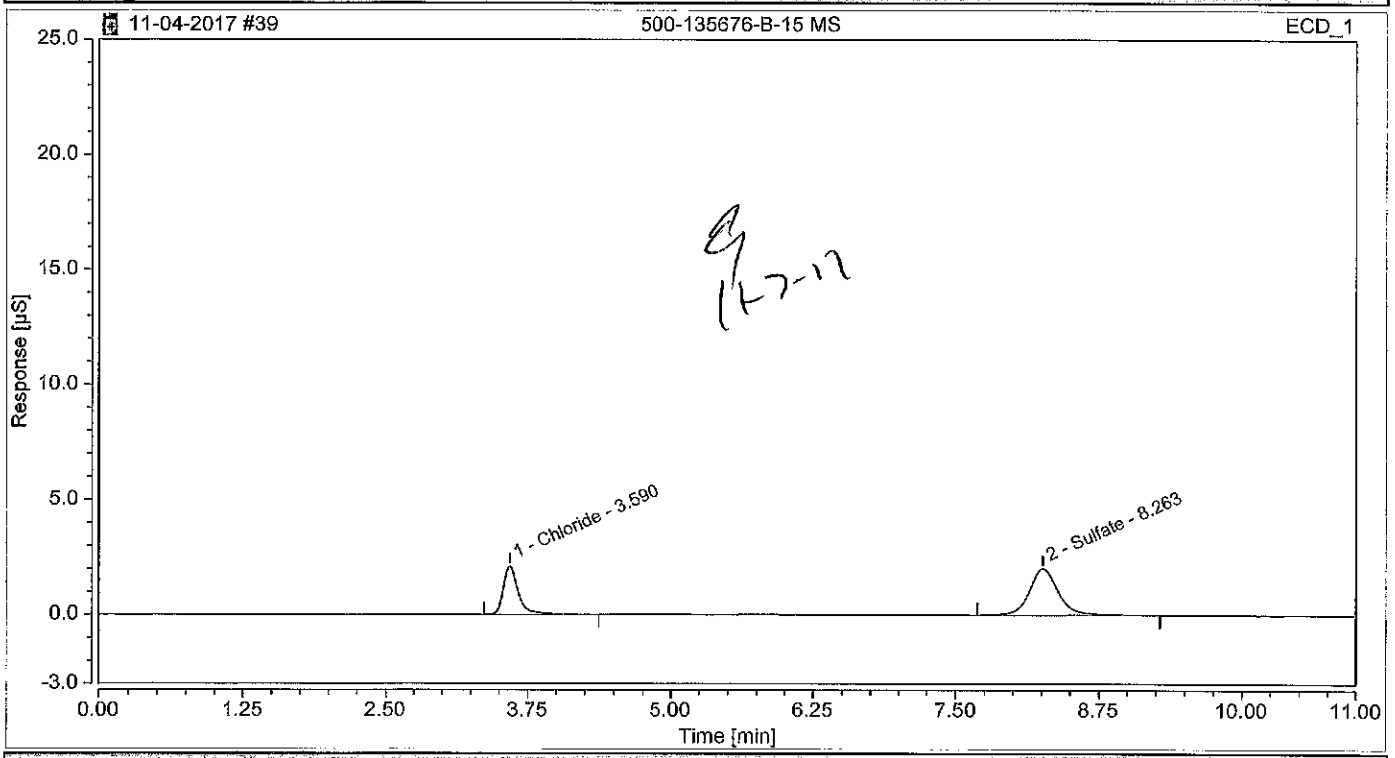
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.587	0.00219	0.013	100.00	100.00	0.0952
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.002**	**0.013**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-15 MS**	*Run Time (min):*	**11.00**
Vial Number:	**BD5**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 23:02**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

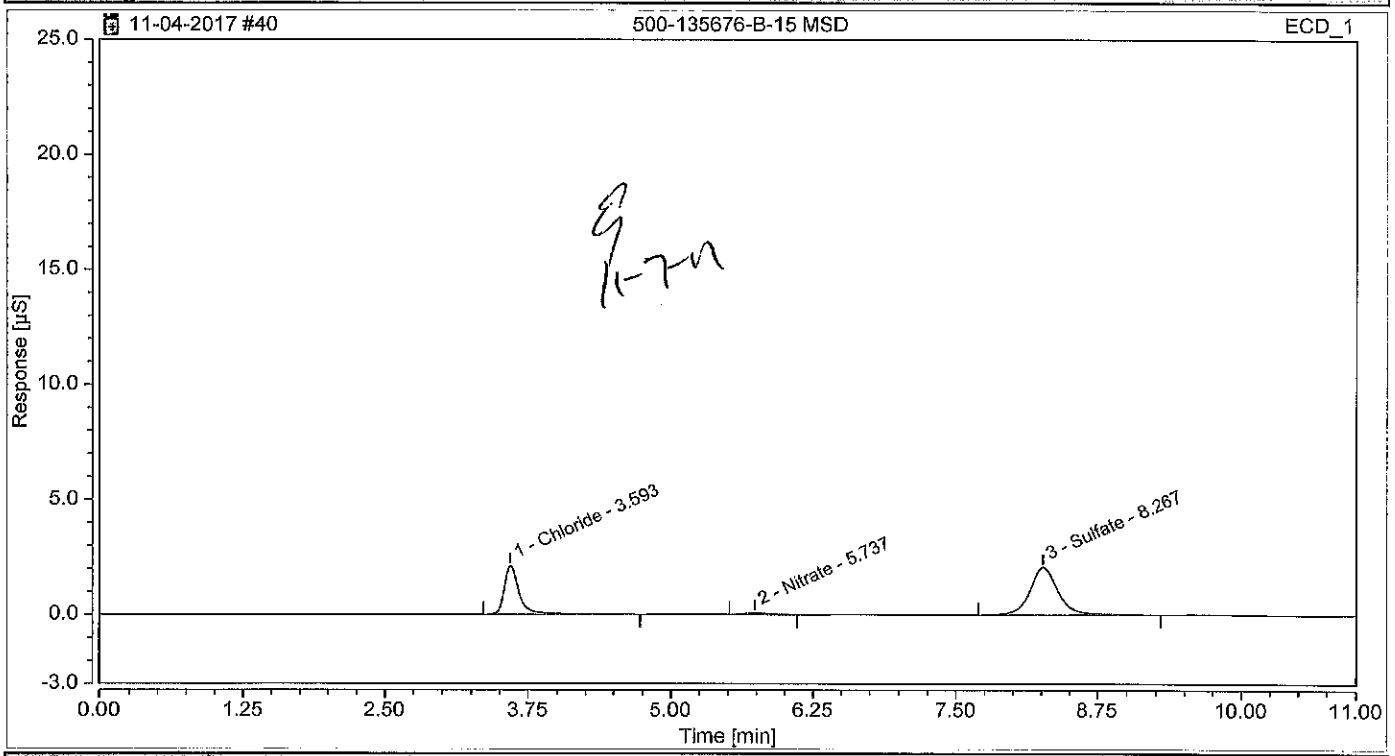
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.590	0.31221	2.104	34.38	50.99	1.0456
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	8.263	0.59595	2.022	65.62	49.01	2.5382
Total:			**0.908**	**4.126**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-15 MSD**	*Run Time (min):*	**11.00**
Vial Number:	**BD6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 23:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

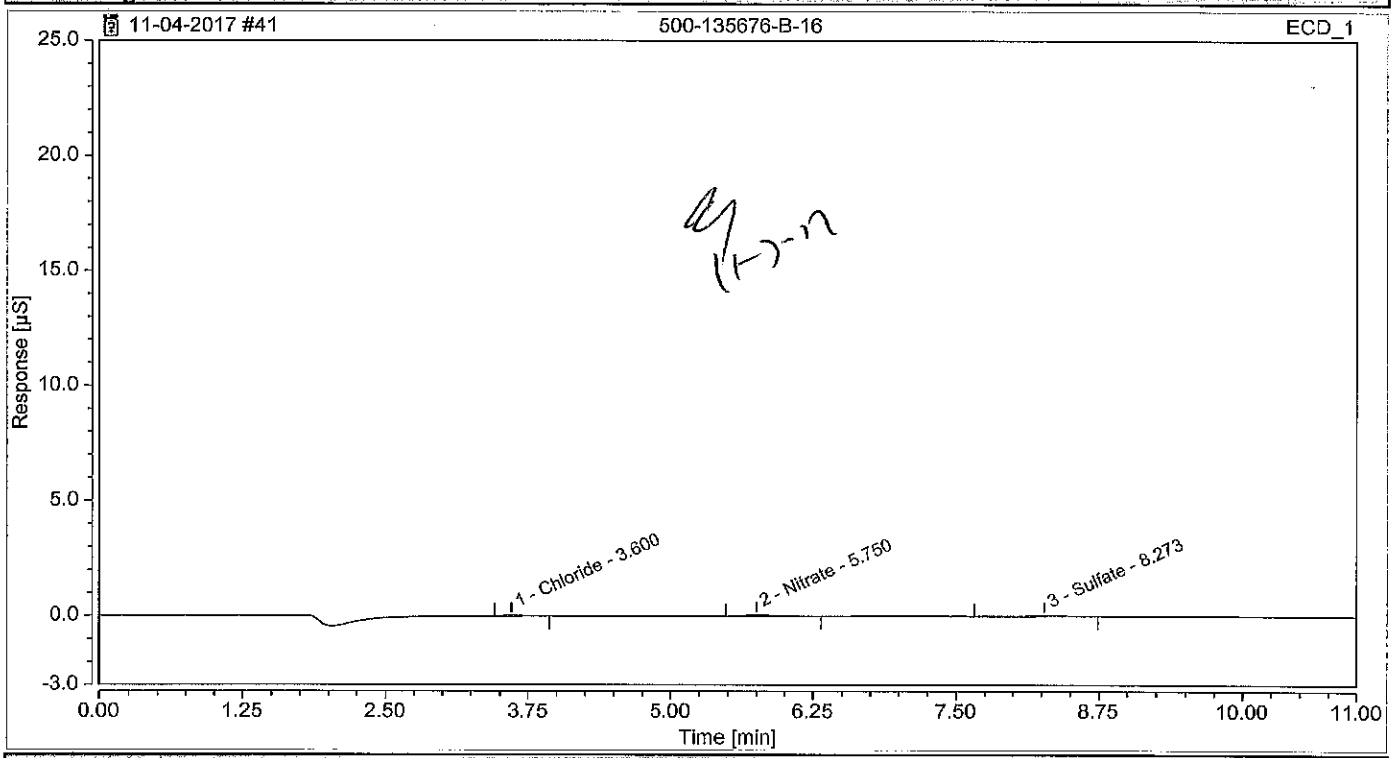
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.593	0.32206	2.112	34.01	49.54	1.0758
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.737	0.01596	0.079	1.69	1.85	0.0791
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.267	0.60885	2.072	64.30	48.60	2.5928
Total:			**0.947**	**4.264**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-16**	*Run Time (min):*	**11.00**
Vial Number:	**BD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**04/Nov/17 23:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

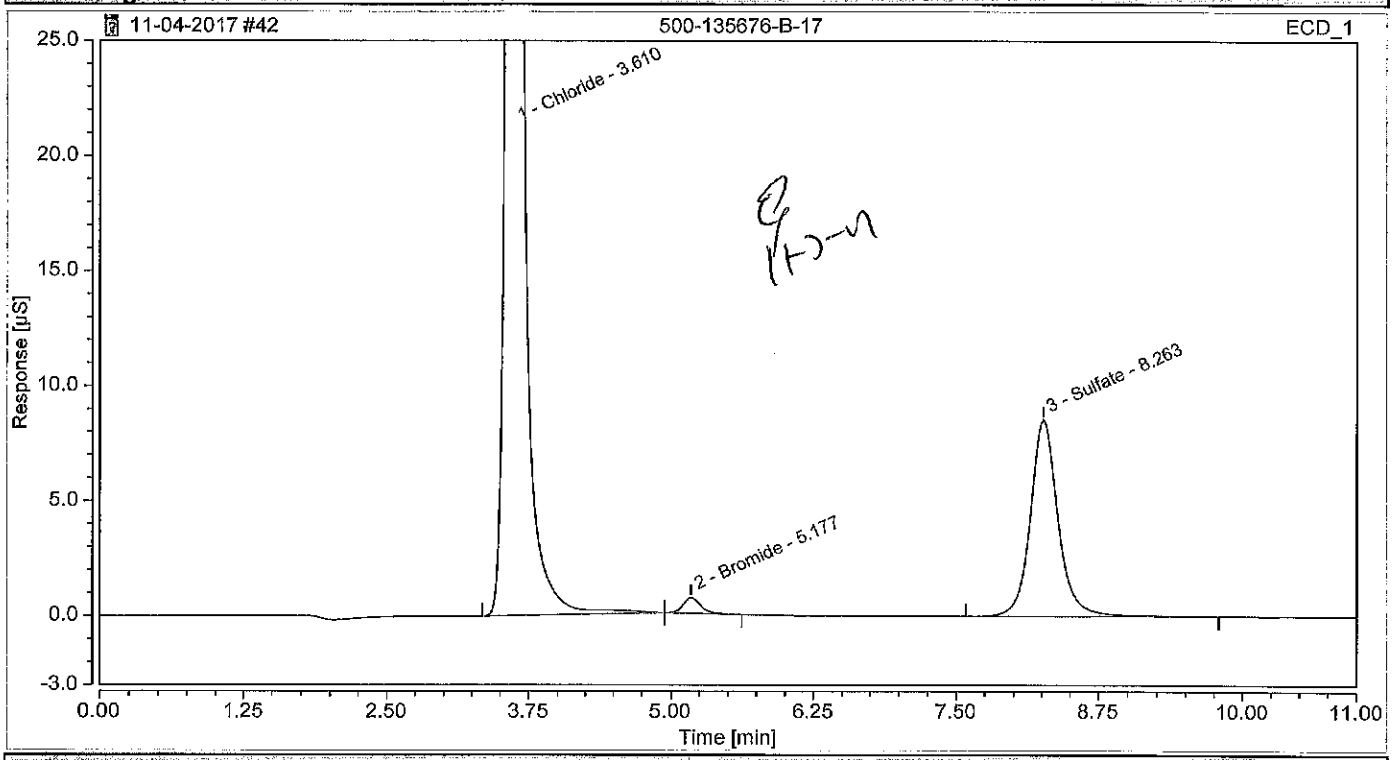
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.600	0.00603	0.042	17.04	27.75	0.1070
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.750	0.01567	0.068	44.33	45.05	0.0787
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.273	0.01366	0.041	38.63	27.20	0.0771
Total:			**0.035**	**0.152**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-17**	*Run Time (min):*	**11.00**
Vial Number:	**BD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**04/Nov/17 23:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

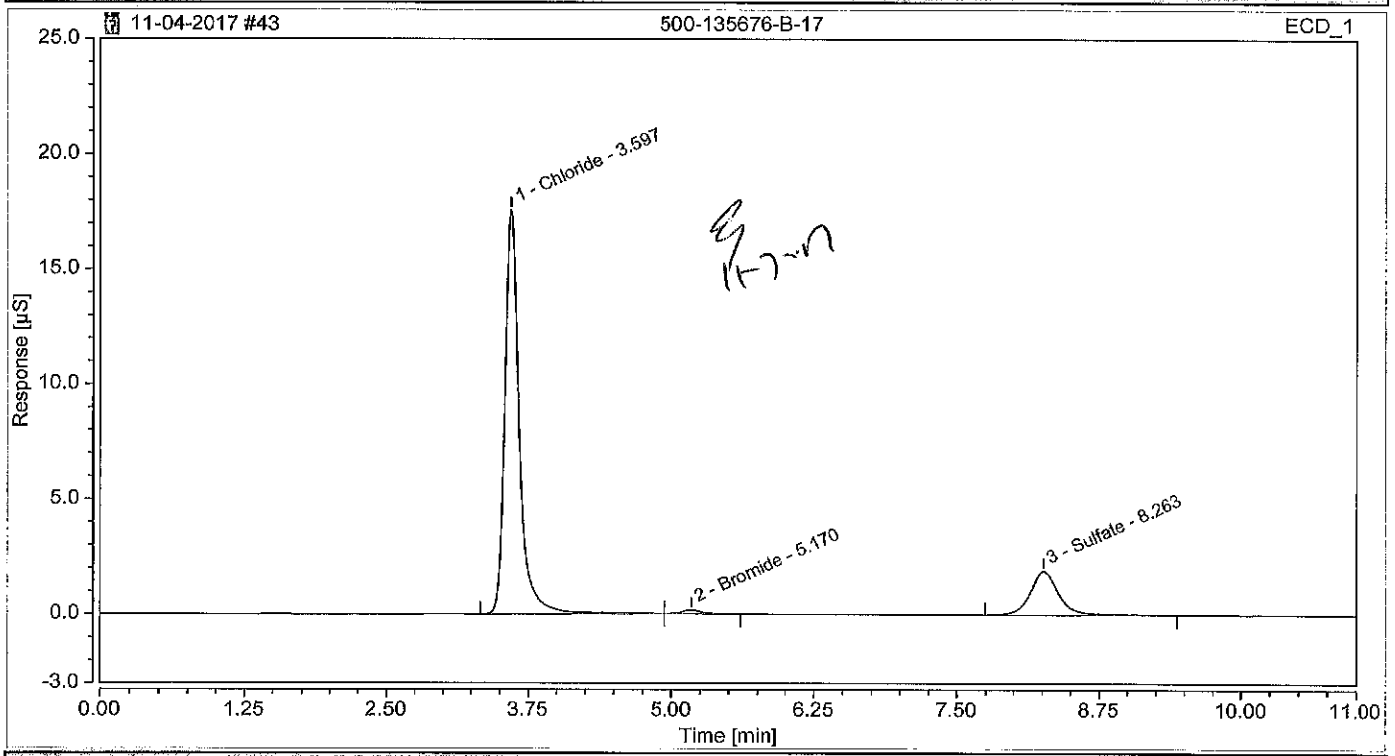
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.610	12.75585	92.199	83.26	90.90	1959.6119
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.177	0.12444	0.683	0.81	0.67	52.7096
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.263	2.44074	8.544	15.93	8.42	516.7678
Total:			**15.321**	**101.427**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-135676-B-17**	*Run Time (min):*	**11.00**
Vial Number:	**BE1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	**CL, SO4**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**04/Nov/17 23:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

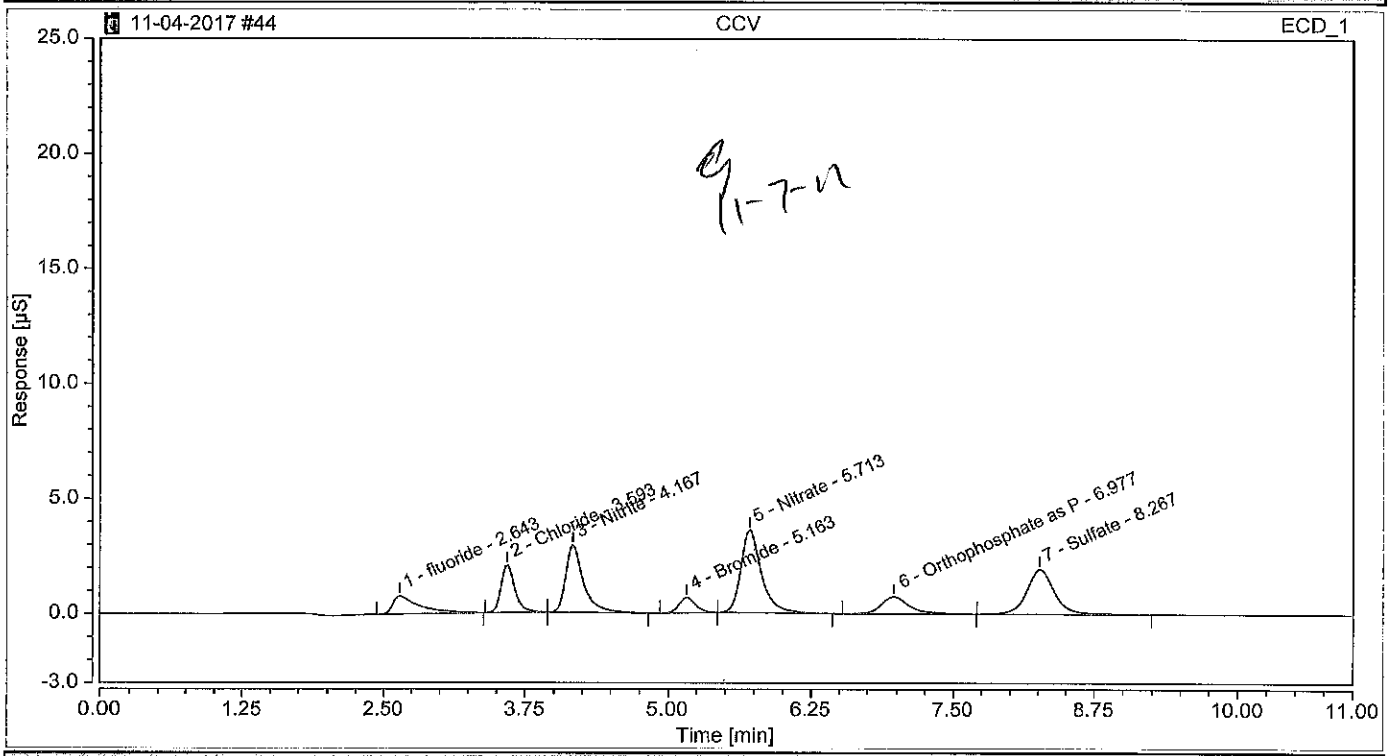
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.597	2.51318	17.563	81.01	89.50	1558.5577
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Bromide	5.170	0.03041	0.162	0.98	0.83	56.3964
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.263	0.55855	1.898	18.01	9.67	476.0336
Total:			**3.102**	**19.623**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**11.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**05/Nov/17 00:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

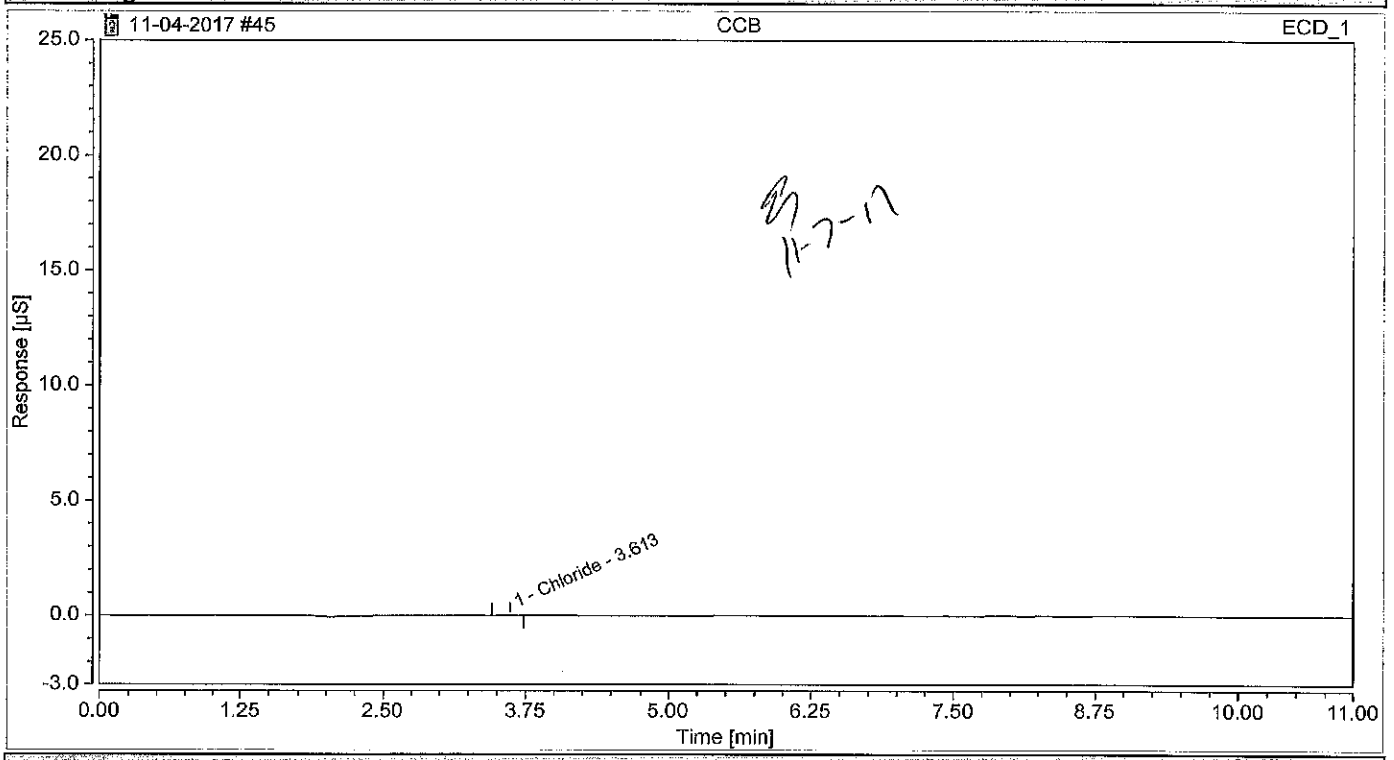
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.643	0.21687	0.782	8.07	6.14	0.5681
2	Chloride	3.593	0.28617	2.060	10.65	16.18	0.9658
3	Nitrite	4.167	0.53633	2.928	19.97	23.00	0.9733
4	Bromide	5.163	0.11641	0.671	4.33	5.28	0.9883
5	Nitrate	5.713	0.75670	3.602	28.17	28.29	0.9568
6	Orthophosphate as P	6.977	0.21002	0.736	7.82	5.78	0.9450
7	Sulfate	8.267	0.56344	1.950	20.98	15.32	2.4008
Total:			**2.686**	**12.729**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**11.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**05/Nov/17 00:16**	*Sample Weight:*	**1.0000**

Chromatogram



11-7-17

Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.613	0.00129	0.010	100.00	100.00	0.0925
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.001**	**0.010**	**100.00**	**100.00**	

General Chemistry Worksheet

Batch Number: 500-408534
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Nov 04 2017 3:11PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00017	WSTICCL2_00016	WSTICS1_00010	WSTICS2_00012
ICV~500-408534/1		300		100 mL	100 mL		300 uL		500 uL
ICB~500-408534/2		300							
MB~500-408534/3		300							
LCS~500-408534/4		300		100 mL	100 mL		300 uL		500 uL
500-136733-A-1	Regional Raw	300	T						
500-136733-A-3	West Raw	300	T						
500-136733-A-4	West Final	300	T						
500-136733-A-8	North Final	300	T						
500-136132-L-2	EIP-DUP-102317	9056A	T						
500-136132-L-2~MS		9056A	T	100 mL	100 mL				250 uL
500-136132-L-2~MSD		9056A	T	100 mL	100 mL				250 uL
500-135676-B-1	MW-107	9056A	D						
CCV~500-408534/13		300		100 mL	100 mL	100 uL		250 uL	
CCB~500-408534/14		300							
500-135676-B-2	MW-102	9056A	D						
500-135676-B-2	MW-102	9056A	D						
500-135676-B-3	MW-101	9056A	D						
500-135676-B-3	MW-101	9056A	D						
500-135676-B-4	MW-106	9056A	D						
500-135676-B-4	MW-106	9056A	D						
500-135676-B-5	MW-105	9056A	D						
500-135676-B-5	MW-105	9056A	D						
500-135676-B-6	MW-8	9056A	D						
500-135676-B-7	MW-7	9056A	D						
CCV~500-408534/25				100 mL	100 mL	100 uL		250 uL	

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General Chemistry Worksheet

Batch Number: 500-408534
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Nov 04 2017 3:11PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WSTICCL1_00017	WSTICCL2_00016	WSTICS1_00010	WSTICS2_00012
CCB~500-408534/26									
500-135676-B-7	MW-7	9056A	D						
500-135676-B-8	MW-6	9056A	D						
500-135676-B-8	MW-6	9056A	D						
500-135676-B-9	MW-4	9056A	D						
500-135676-B-10	MW-5	9056A	D						
500-135676-B-10	MW-5	9056A	D						
500-135676-B-12	MW-104	9056A	D						
500-135676-B-13	MW-103R	9056A	D						
500-135676-B-13	MW-103R	9056A	D						
500-135676-B-15	Field Blank	9056A	D						
CCV~500-408534/37		9056A		100 mL	100 mL	100 uL		250 uL	
CCB~500-408534/38		9056A							
500-135676-B-15~MS		9056A	D	100 mL	100 mL		100 uL		250 uL
500-135676-B-15~MSD		9056A	D	100 mL	100 mL		100 uL		250 uL
500-135676-B-16	Equipment Blank	9056A	D						
500-135676-B-17	Field Duplicate	9056A	D						
500-135676-B-17	Field Duplicate	9056A	D						
CCV~500-408534/44		9056A		100 mL	100 mL	100 uL		250 uL	
CCB~500-408534/45		9056A							

Filter ID: WHATMAN-9814904-0.45
Balance ID: NA
Pipette ID: NA
Eluent 1 ID: ELUENTCONC00023
Regeneration Solution ID: NA
Ethylenediamine ID: NA

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General Chemistry Worksheet

Batch Number: 500-408534
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Nov 04 2017 3:11PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
ICV~500-408534/1		300			
ICB~500-408534/2		300			
MB~500-408534/3		300			
LCS~500-408534/4		300			
500-136733-A-1	Regional Raw	300	T		
500-136733-A-3	West Raw	300	T		
500-136733-A-4	West Final	300	T		
500-136733-A-8	North Final	300	T		
500-136132-L-2	EIP-DUP-102317	9056A	T		
500-136132-L-2~MS		9056A	T		
500-136132-L-2~MSD		9056A	T		
500-135676-B-1	MW-107	9056A	D		
CCV~500-408534/13		300			
CCB~500-408534/14		300			
500-135676-B-2	MW-102	9056A	D		
500-135676-B-2	MW-102	9056A	D		
500-135676-B-3	MW-101	9056A	D		
500-135676-B-3	MW-101	9056A	D		
500-135676-B-4	MW-106	9056A	D		
500-135676-B-4	MW-106	9056A	D		
500-135676-B-5	MW-105	9056A	D		
500-135676-B-5	MW-105	9056A	D		
500-135676-B-6	MW-8	9056A	D		
500-135676-B-7	MW-7	9056A	D		
CCV~500-408534/25					

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General Chemistry Worksheet

Batch Number: 500-408534
Method: 300.0
Analyst: Treadwell, Eliane A

Date Open: Nov 04 2017 3:11PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
CCB~500-408534/26				
500-135676-B-7	MW-7	9056A	D	
500-135676-B-8	MW-6	9056A	D	
500-135676-B-8	MW-6	9056A	D	
500-135676-B-9	MW-4	9056A	D	
500-135676-B-10	MW-5	9056A	D	
500-135676-B-10	MW-5	9056A	D	
500-135676-B-12	MW-104	9056A	D	
500-135676-B-13	MW-103R	9056A	D	
500-135676-B-13	MW-103R	9056A	D	
500-135676-B-15	Field Blank	9056A	D	
CCV~500-408534/37		9056A		
CCB~500-408534/38		9056A		
500-135676-B-15~MS		9056A	D	
500-135676-B-15~MSD		9056A	D	
500-135676-B-16	Equipment Blank	9056A	D	
500-135676-B-17	Field Duplicate	9056A	D	
500-135676-B-17	Field Duplicate	9056A	D	
CCV~500-408534/44		9056A		
CCB~500-408534/45		9056A		

Batch Comment: AG14A-5UM/AS14A-5UM

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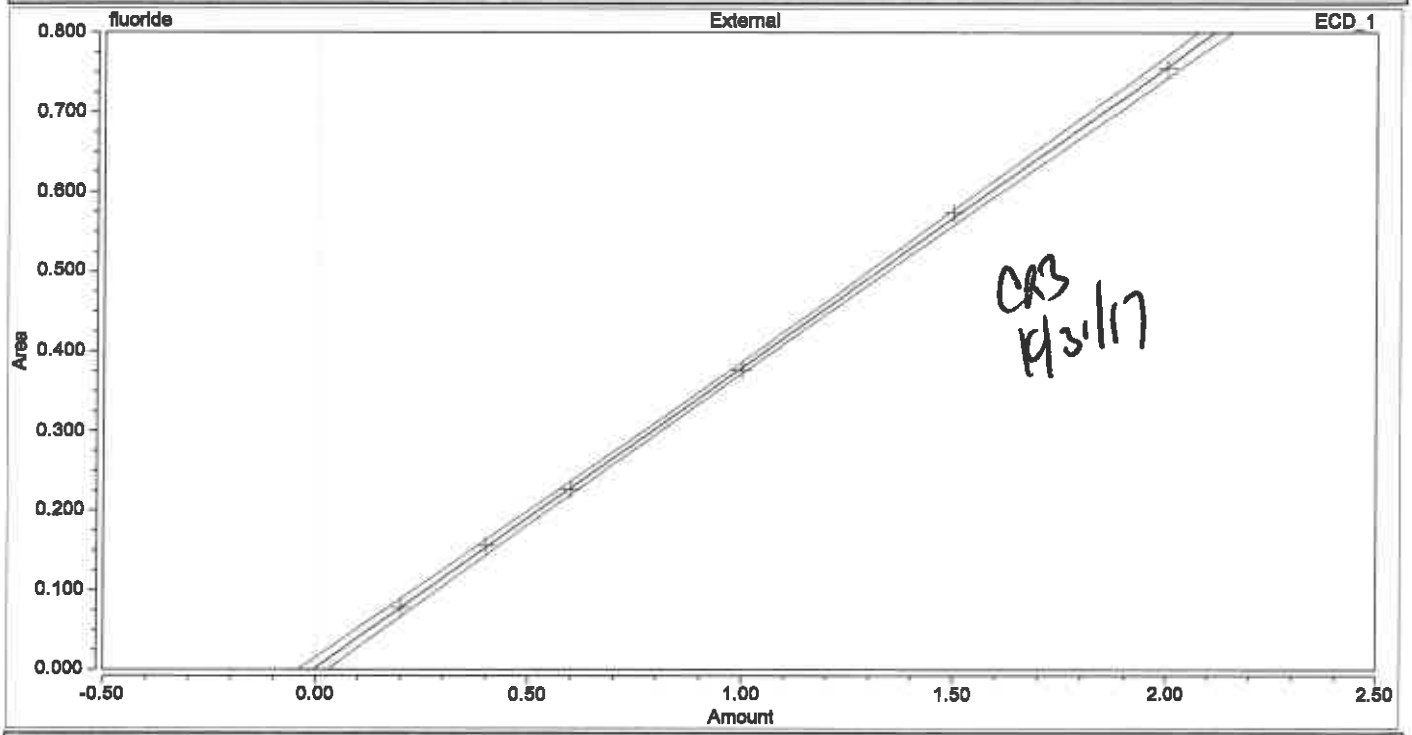
Calibration

Calibration Details	n.a.		
Calibration Type	LIn, WithOffset	*Offset (C0)*	0.0025
Evaluation Type	Area	*Slope (C1)*	0.3774
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9998

Calibration Plot **fluoride**



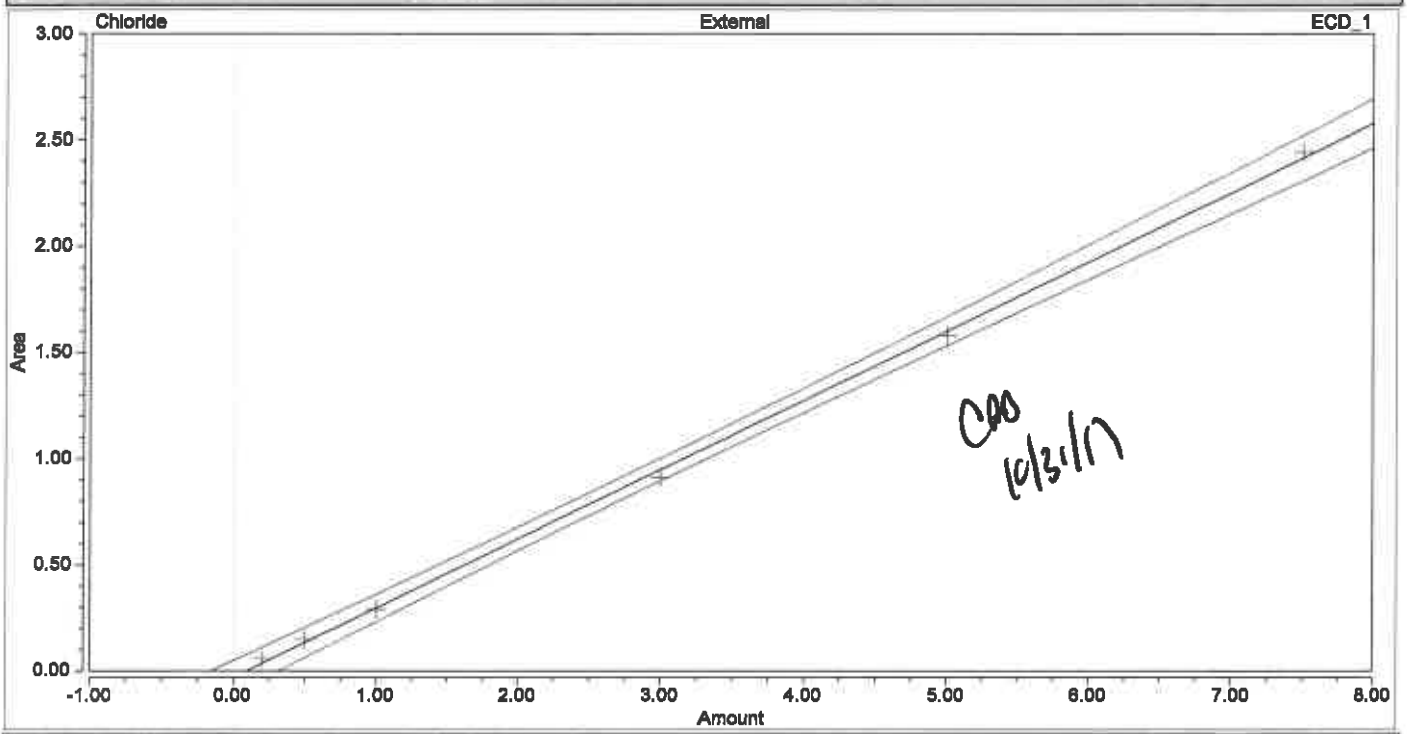
Calibration Results **fluoride**

No.	Injection Name	Calibration Level	X Value fluoride ECD_1	Y Value fluoride ECD_1	Y Value fluoride ECD_1	Height µS fluoride ECD_1	Height µS fluoride ECD_1
1	CURVE 1	01	0.2000	0.07788	0.0779	0.248	0.248
2	CURVE 2	02	0.4000	0.15618	0.1562	0.538	0.538
3	CURVE 3	03	0.6000	0.22658	0.2266	0.846	0.846
4	CURVE 4	04	1.0000	0.37624	0.3762	1.445	1.445
5	CURVE 5	05	1.5000	0.57401	0.5740	2.246	2.246
6	CURVE 6	06	2.0000	0.75521	0.7552	3.008	3.008

Calibration

Calibration Details	n.a.		
Calibration Type	Lin, WithOffset	*Offset (C0)*	-0.0289
Evaluation Type	Area	*Slope (C1)*	0.3262
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9993

Calibration Plot **Chloride**



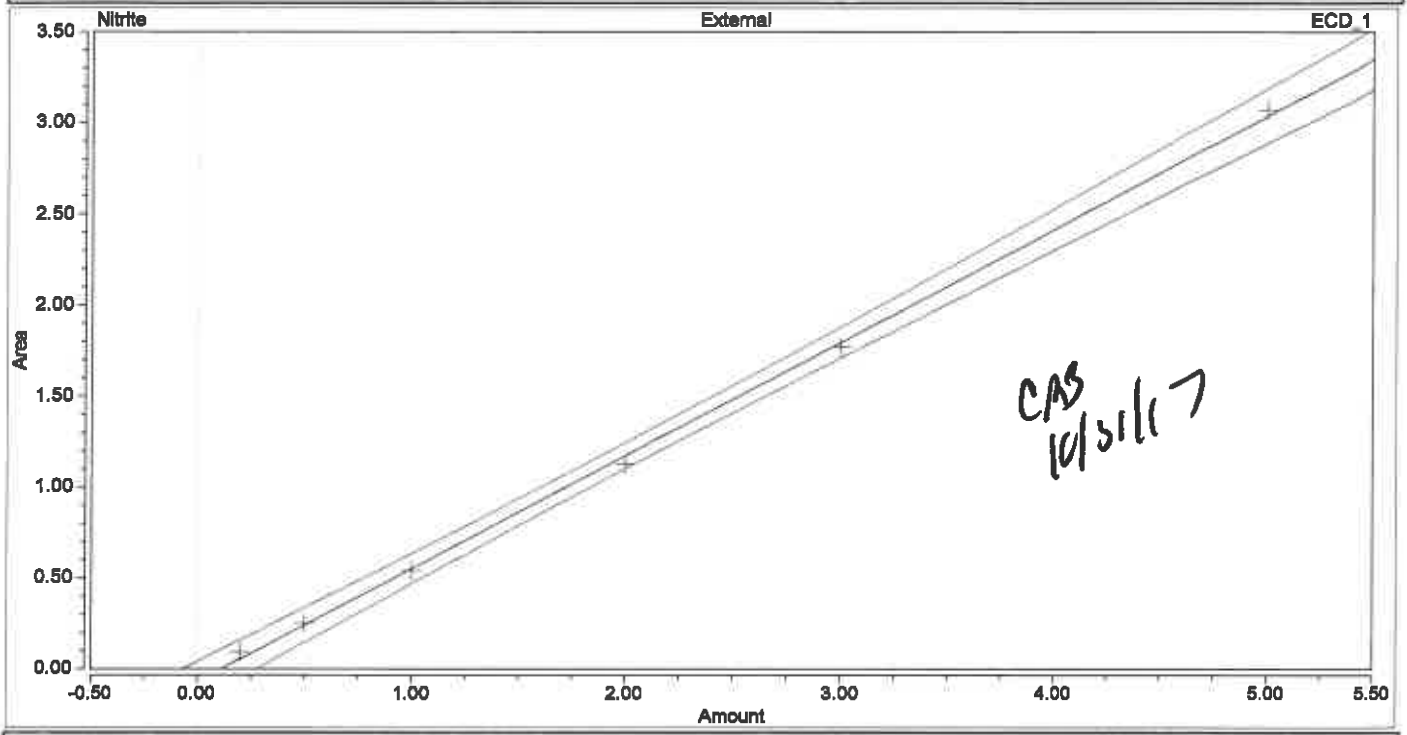
Calibration Results Chloride

No.	Injection Name	Calibration Level	X Value Chloride ECD_1	Y Value Chloride ECD_1	Y Value Chloride ECD_1	Height µS Chloride ECD_1	Height µS Chloride ECD_1
1	CURVE 1	01	0.2000	0.05790	0.0579	0.424	0.424
2	CURVE 2	02	0.5000	0.14790	0.1479	1.071	1.071
3	CURVE 3	03	1.0000	0.29164	0.2916	2.118	2.118
4	CURVE 4	04	3.0000	0.91288	0.9129	6.748	6.748
5	CURVE 5	05	5.0000	1.58217	1.5822	11.782	11.782
6	CURVE 6	06	7.5000	2.44501	2.4450	18.547	18.547

Calibration

Calibration Details	n.a.		
Calibration Type	Lin, WithOffset	*Offset (C0)*	-0.0688
Evaluation Type	Area	*Slope (C1)*	0.6218
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9991

Calibration Plot **Nitrite**



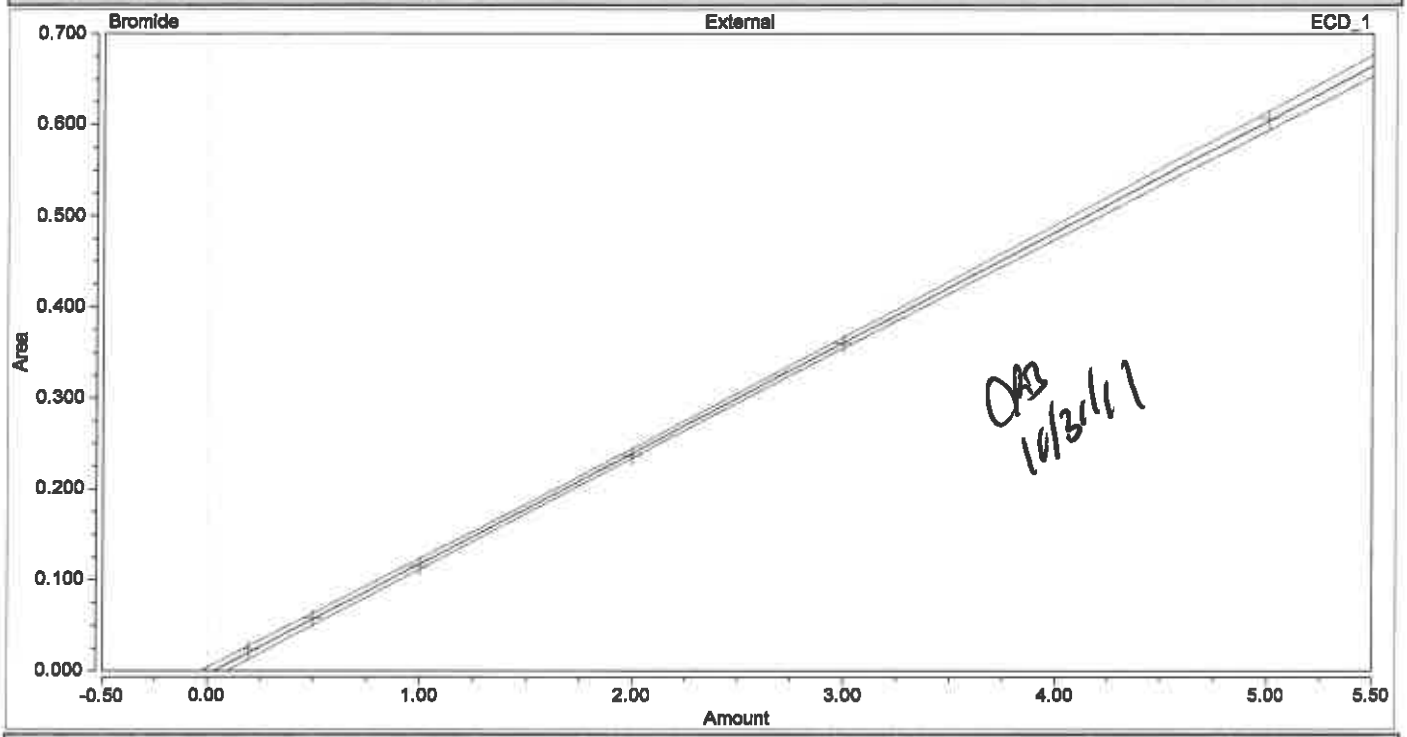
Calibration Results **Nitrite**

No.	Injection Name	Calibration Level	X Value Nitrite ECD_1	Y Value Nitrite ECD_1	Y Value Nitrite ECD_1	Height µS Nitrite ECD_1	Height µS Nitrite ECD_1
1	CURVE 1	01	0.2000	0.09523	0.0952	0.514	0.514
2	CURVE 2	02	0.5000	0.25352	0.2535	1.384	1.384
3	CURVE 3	03	1.0000	0.54020	0.5402	2.924	2.924
4	CURVE 4	04	2.0000	1.12755	1.1275	6.135	6.135
5	CURVE 5	05	3.0000	1.77177	1.7718	9.562	9.562
6	CURVE 6	06	5.0000	3.07372	3.0737	16.411	16.411

Calibration

Calibration Details	n.a.		
Calibration Type	Lin, WithOffset	*Offset (C0)*	-0.0039
Evaluation Type	Area	*Slope (C1)*	0.1218
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9999

Calibration Plot **Bromide**



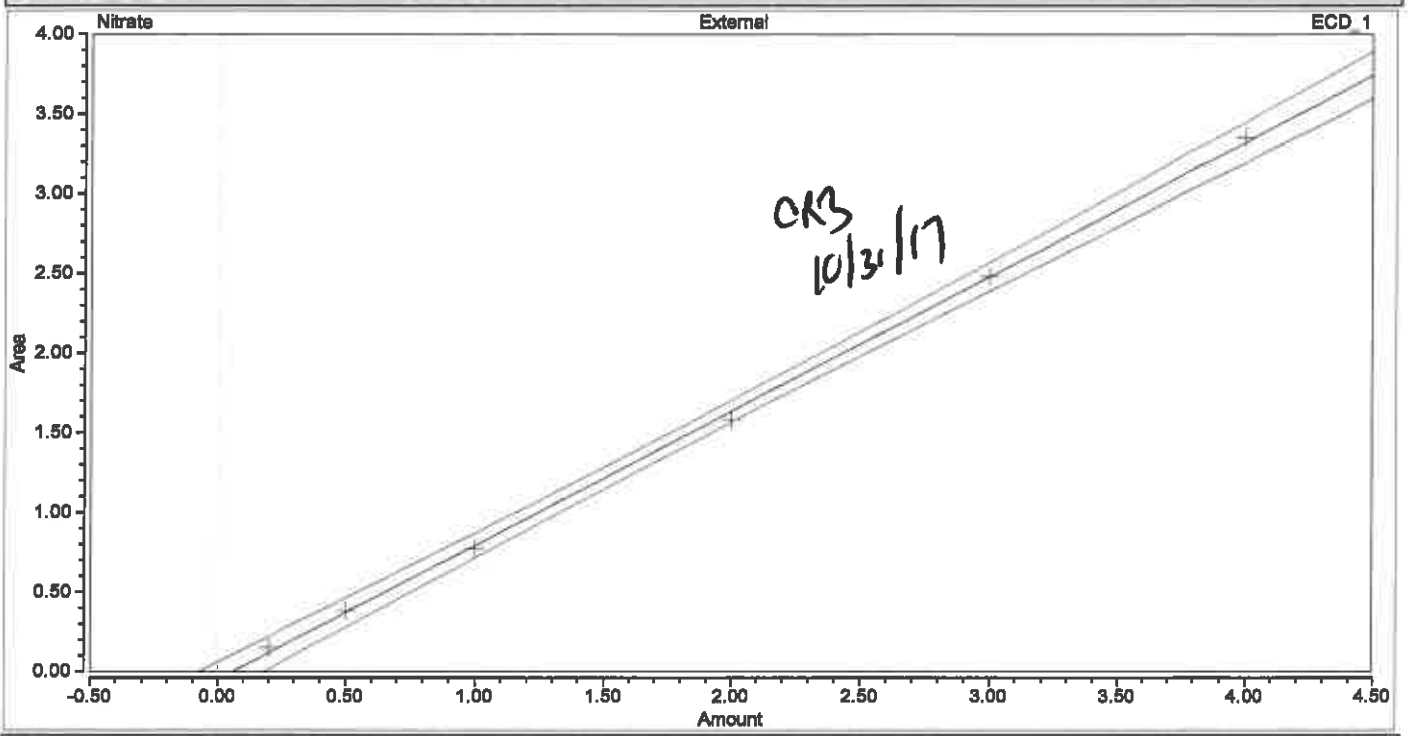
Calibration Results Bromide

No.	Injection Name	Calibration Level	X Value Bromide ECD_1	Y Value Bromide ECD_1	Y Value Bromide ECD_1	Height µS Bromide ECD_1	Height µS Bromide ECD_1
1	CURVE 1	01	0.2000	0.02361	0.0236	0.134	0.134
2	CURVE 2	02	0.5000	0.05763	0.0576	0.334	0.334
3	CURVE 3	03	1.0000	0.11607	0.1161	0.679	0.679
4	CURVE 4	04	2.0000	0.23662	0.2366	1.389	1.389
5	CURVE 5	05	3.0000	0.36025	0.3603	2.122	2.122
6	CURVE 6	06	5.0000	0.60692	0.6069	3.618	3.618

Calibration

Calibration Details	n.a.		
Calibration Type	Lin, WithOffset	*Offset (C0)*	-0.0046
Evaluation Type	Area	*Slope (C1)*	0.2366
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9994

Calibration Plot **Nitrate**



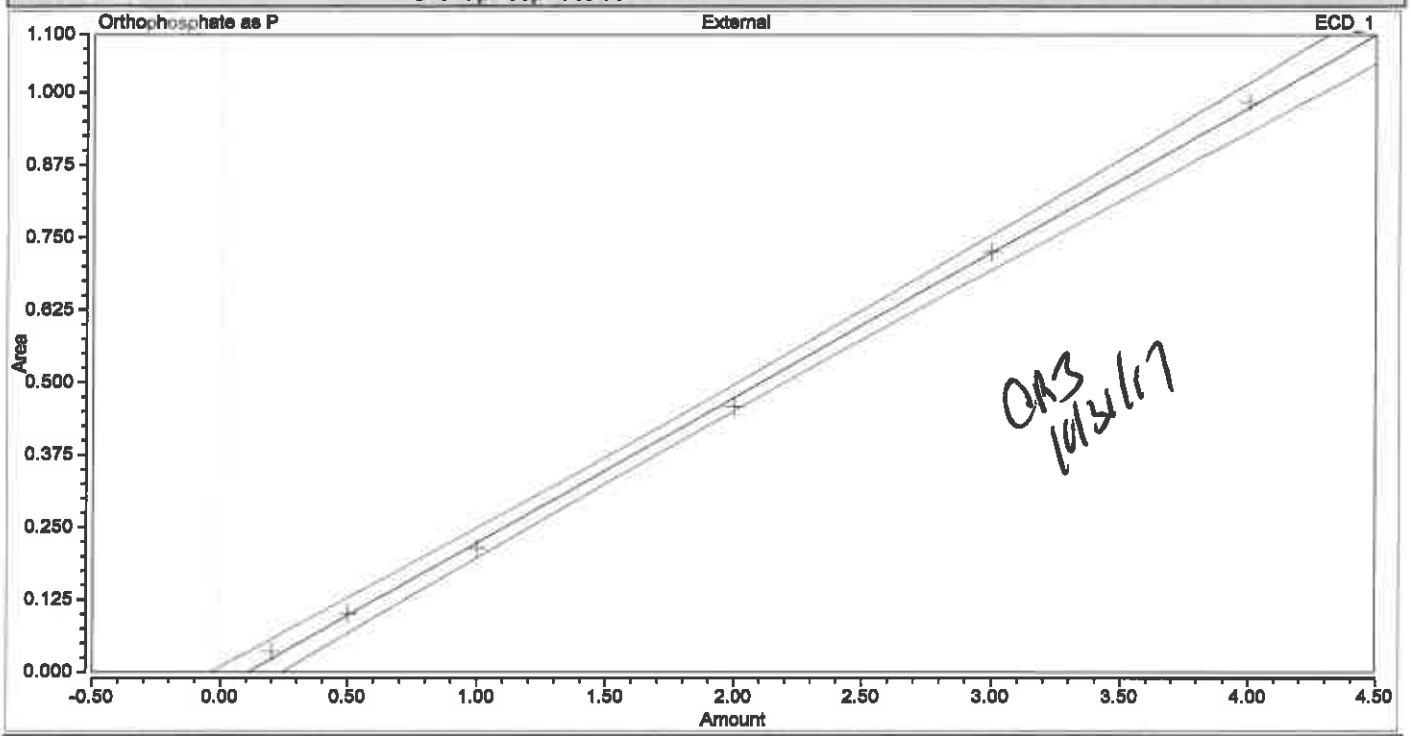
Calibration Results Nitrate

No.	Injection Name	Calibration Level	X Value Nitrate ECD_1	Y Value Nitrate ECD_1	Y Value Nitrate ECD_1	Height µS Nitrate ECD_1	Height µS Nitrate ECD_1
1	CURVE 1	01	0.2000	0.15133	0.1513	0.689	0.689
2	CURVE 2	02	0.5000	0.38149	0.3815	1.764	1.764
3	CURVE 3	03	1.0000	0.77395	0.7739	3.637	3.637
4	CURVE 4	04	2.0000	1.58484	1.5848	7.616	7.616
5	CURVE 5	05	3.0000	2.48054	2.4805	11.974	11.974
6	CURVE 6	06	4.0000	3.35327	3.3533	16.493	16.493

Calibration

Calibration Details	n.a.		
Calibration Type	Lin, WithOffset	*Offset (C0)*	-0.0268
Evaluation Type	Area	*Slope (C1)*	0.2506
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9992

Calibration Plot **Orthophosphate as P**



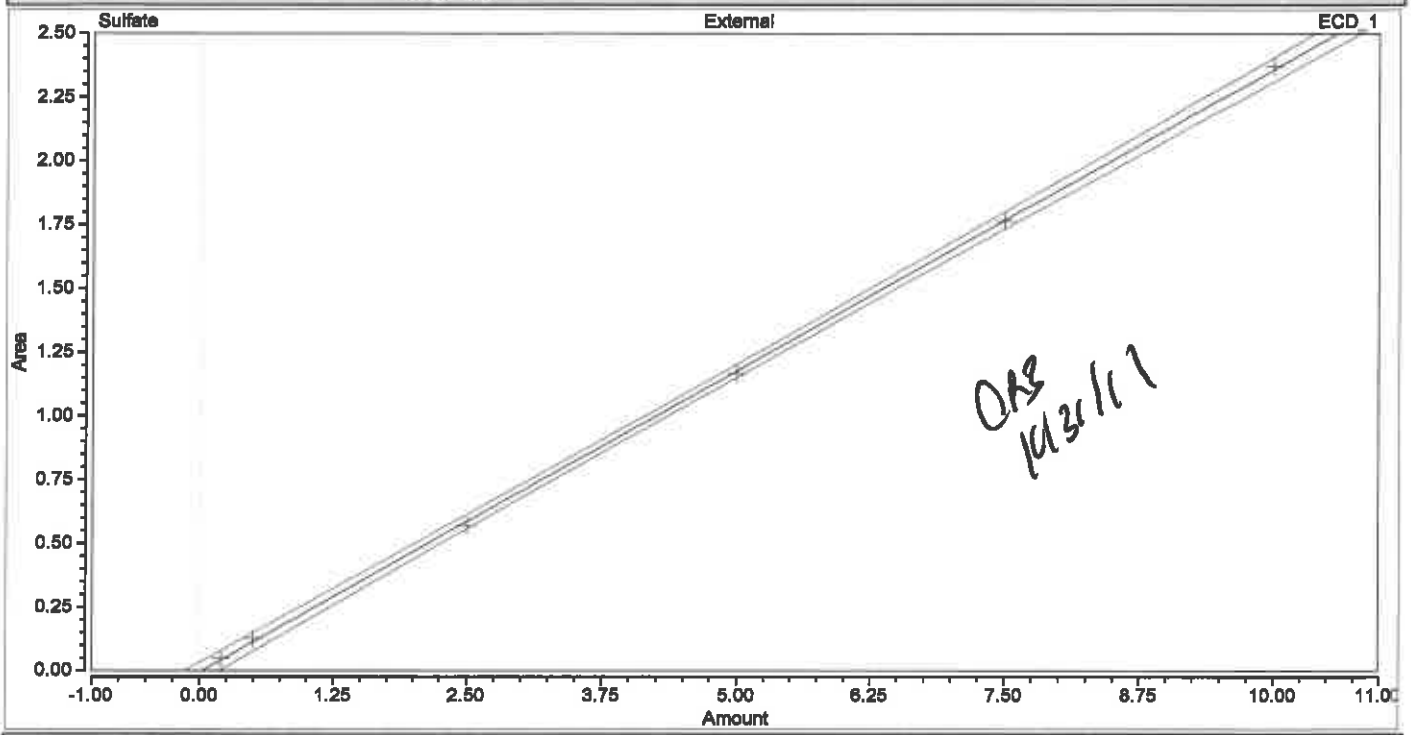
Calibration Results **Orthophosphate as P**

No.	Injection Name	Calibration Level	X Value rthophosphate as ECD_1	Y Value rthophosphate as ECD_1	Y Value hophosphate a ECD_1	Height µS rthophosphate as ECD_1	Height µS hophosphate as ECD_1
1	CURVE 1	01	0.2000	0.03587	0.0359	0.103	0.103
2	CURVE 2	02	0.5000	0.10151	0.1015	0.328	0.328
3	CURVE 3	03	1.0000	0.21443	0.2144	0.746	0.746
4	CURVE 4	04	2.0000	0.45911	0.4591	1.669	1.669
5	CURVE 5	05	3.0000	0.72562	0.7256	2.662	2.662
6	CURVE 6	06	4.0000	0.98437	0.9844	3.669	3.669

Calibration

Calibration Details	n.a.		
Calibration Type	Lin, WithOffset	*Offset (C0)*	-0.0046
Evaluation Type	Area	*Slope (C1)*	0.2366
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9998

Calibration Plot Sulfate



Calibration Results Sulfate

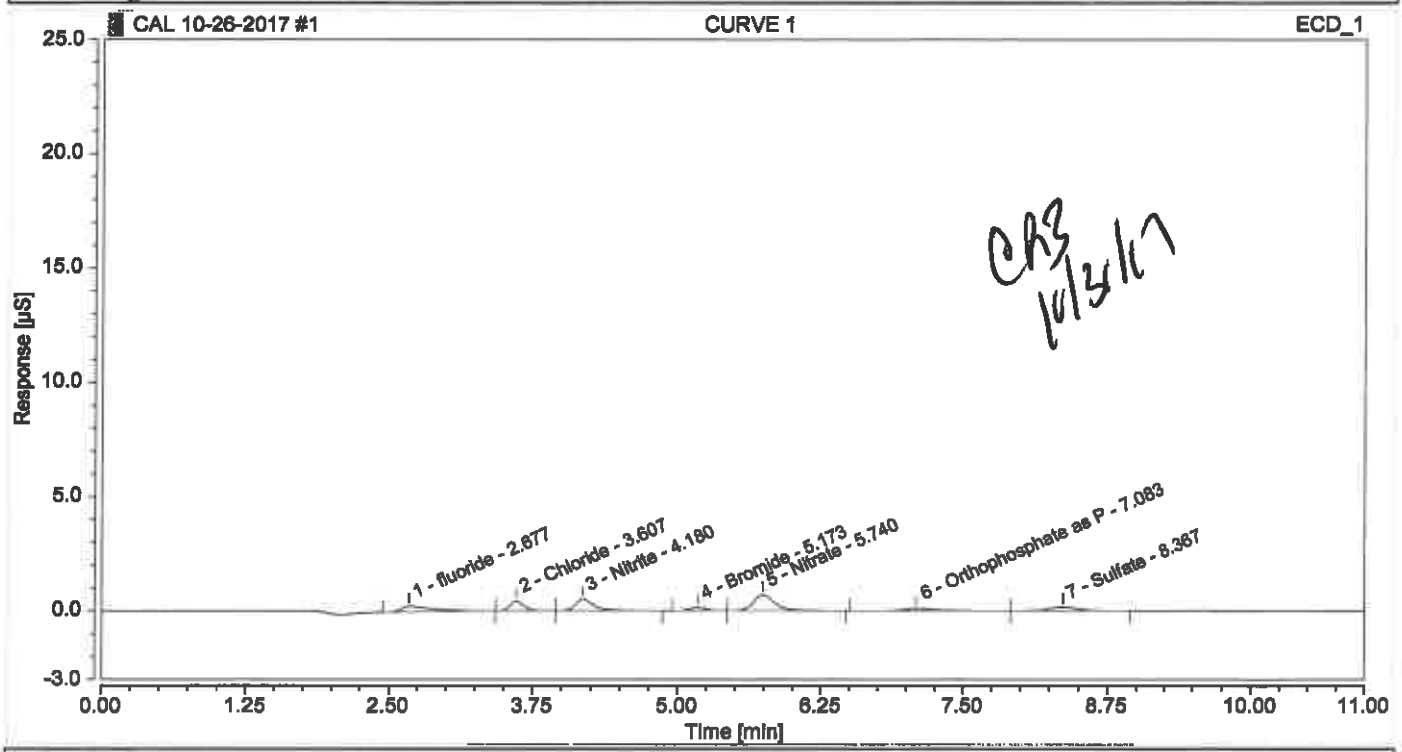
No.	Injection Name	Calibration Level	X Value Sulfate ECD_1	Y Value Sulfate ECD_1	Y Value Sulfate ECD_1	Height µS Sulfate ECD_1	Height µS Sulfate ECD_1
1	CURVE 1	01	0.2000	0.04735	0.0473	0.164	0.164
2	CURVE 2	02	0.5000	0.12772	0.1277	0.430	0.430
3	CURVE 3	03	2.5000	0.57187	0.5719	1.970	1.970
4	CURVE 4	04	5.0000	1.16717	1.1672	4.071	4.071
5	CURVE 5	05	7.5000	1.76613	1.7661	6.180	6.180
6	CURVE 6	06	10.0000	2.37281	2.3728	8.369	8.369

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 1**	*Run Time (min):*	**11.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**01**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 11:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

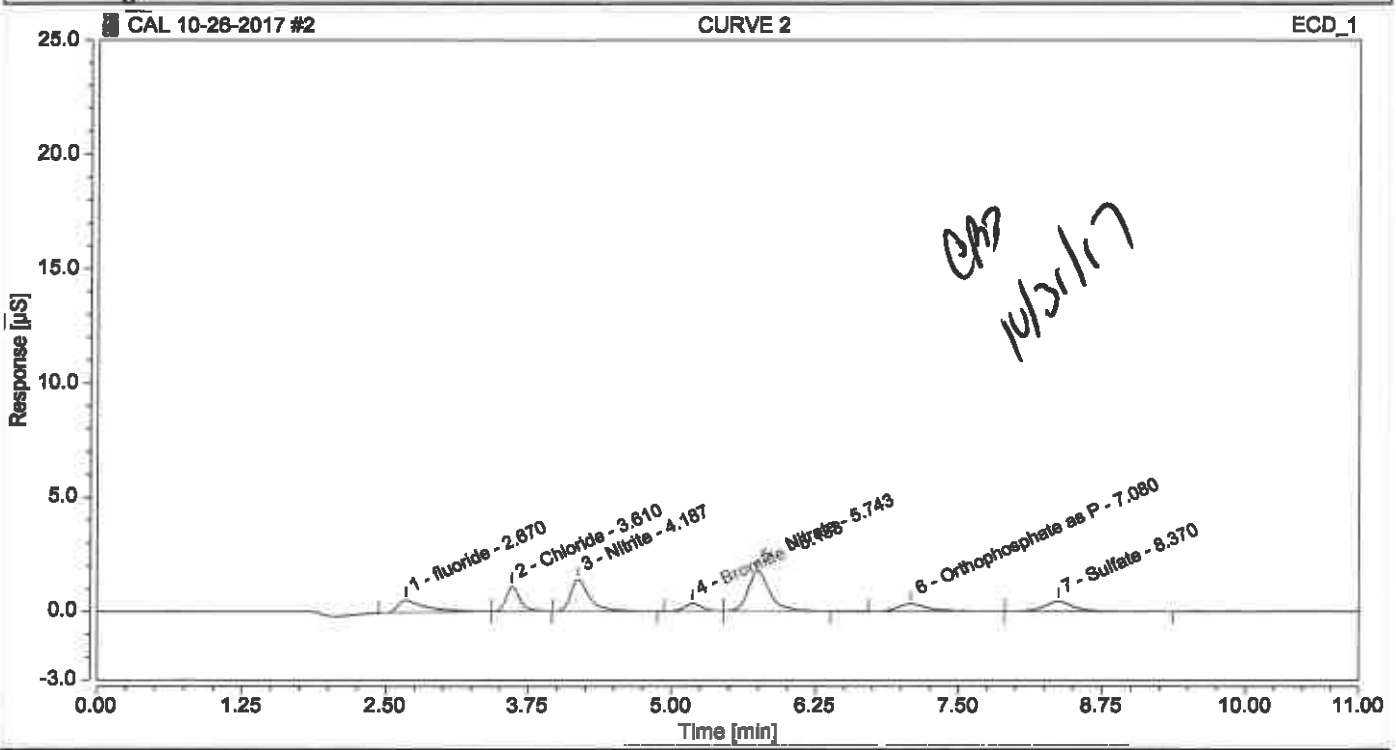
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.677	0.07788	0.248	15.92	10.90	0.1998
2	Chloride	3.607	0.05790	0.424	11.84	18.62	0.2660
3	Nitrite	4.180	0.09523	0.514	19.47	22.58	0.2639
4	Bromide	5.173	0.02361	0.134	4.83	5.88	0.2261
5	Nitrate	5.740	0.15133	0.689	30.94	30.28	0.2395
6	Orthophosphate as P	7.083	0.03587	0.103	7.33	4.53	0.2502
7	Sulfate	8.367	0.04735	0.164	9.68	7.21	0.2195
Total:			**0.489**	**2.275**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 2**	*Run Time (min):*	**11.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**02**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 12:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

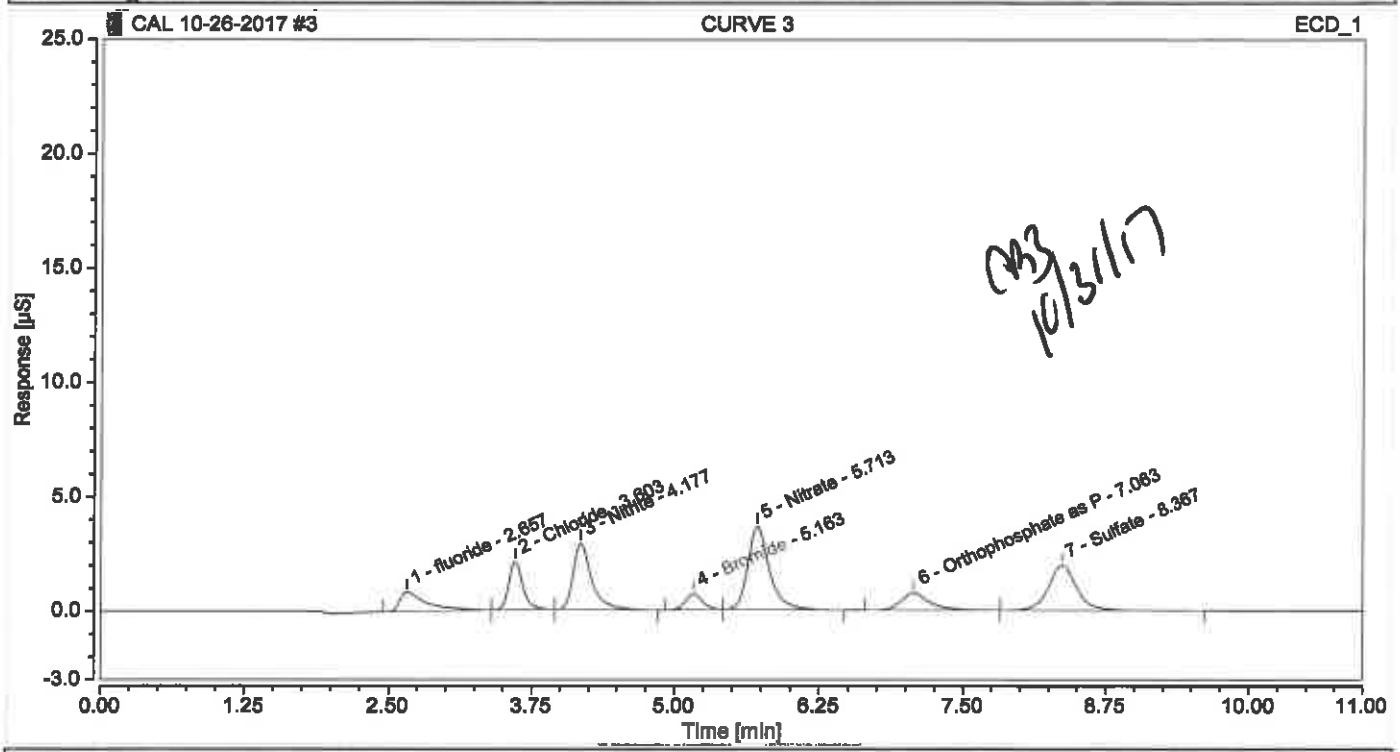
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.670	0.15618	0.538	12.74	9.20	0.4072
2	Chloride	3.610	0.14790	1.071	12.06	18.31	0.5419
3	Nitrite	4.187	0.25352	1.384	20.68	23.66	0.5184
4	Bromide	5.183	0.05763	0.334	4.70	5.71	0.5055
5	Nitrate	5.743	0.38149	1.764	31.12	30.15	0.5122
6	Orthophosphate as P	7.080	0.10151	0.328	8.28	5.61	0.5120
7	Sulfate	8.370	0.12772	0.430	10.42	7.35	0.5592
Total:			**1.226**	**5.849**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 3**	*Run Time (min):*	**11.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 12:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

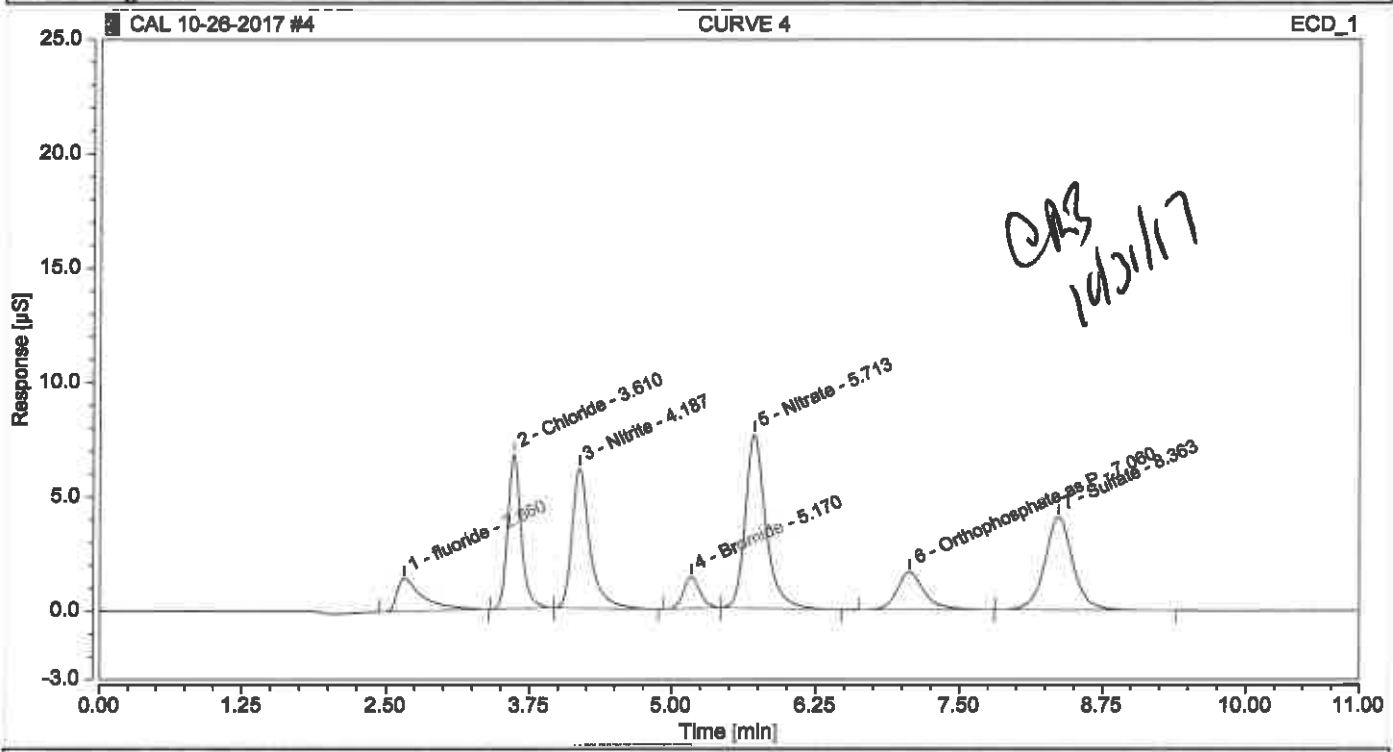
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.657	0.22658	0.846	8.29	6.55	0.5938
2	Chloride	3.603	0.29164	2.118	10.66	16.39	0.9825
3	Nitrite	4.177	0.54020	2.924	19.75	22.63	0.9795
4	Bromide	5.163	0.11607	0.679	4.24	5.25	0.9854
5	Nitrate	5.713	0.77395	3.637	28.30	28.15	0.9772
6	Orthophosphate as P	7.063	0.21443	0.746	7.84	5.77	0.9626
7	Sulfate	8.367	0.57187	1.970	20.91	15.25	2.4364
Total:			**2.735**	**12.919**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 4**	*Run Time (min):*	**11.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 12:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

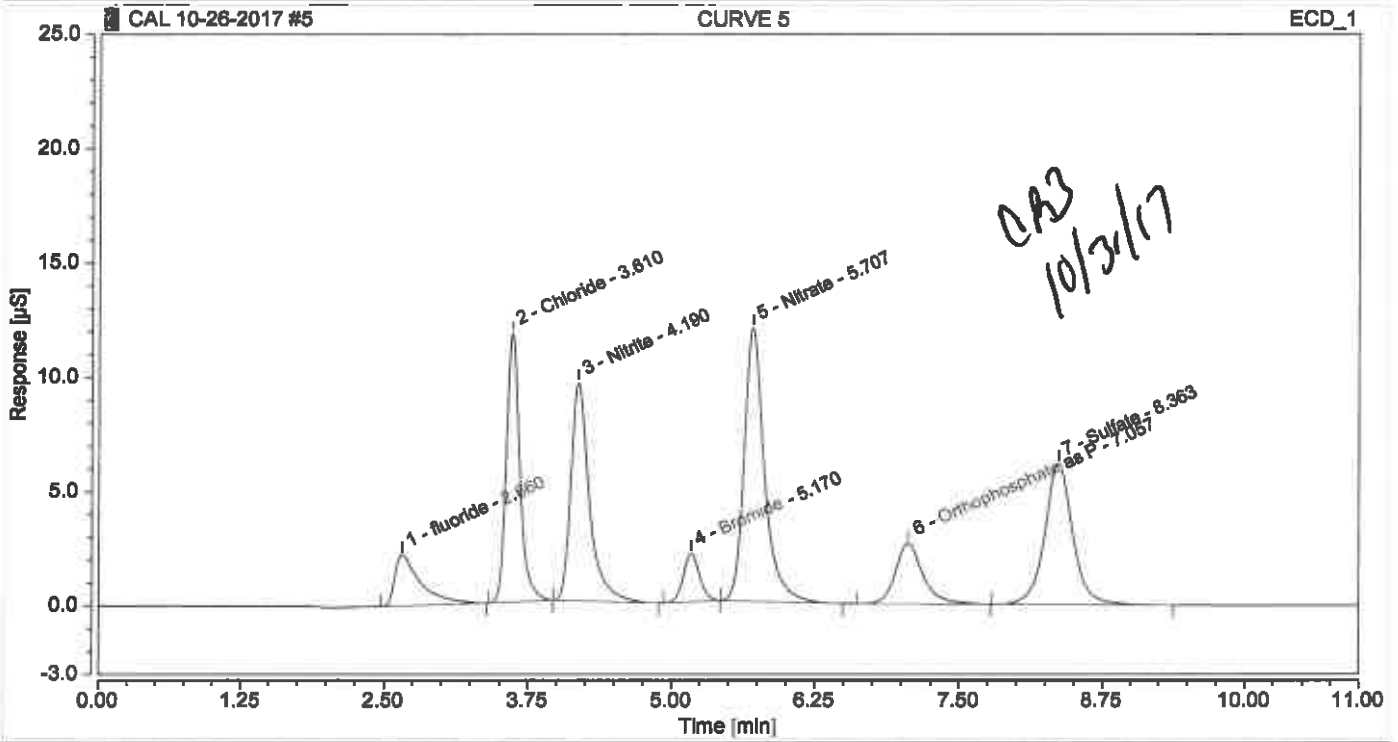
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.660	0.37624	1.445	6.42	4.97	0.9903
2	Chloride	3.610	0.91288	6.748	15.57	23.21	2.8870
3	Nitrite	4.187	1.12755	6.135	19.23	21.10	1.9241
4	Bromide	5.170	0.23662	1.389	4.03	4.78	1.9755
5	Nitrate	5.713	1.58484	7.616	27.02	26.20	1.9381
6	Orthophosphate as P	7.060	0.45911	1.669	7.83	5.74	1.9388
7	Sulfate	8.363	1.16717	4.071	19.90	14.00	4.9525
Total:			**5.864**	**29.072**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 5**	*Run Time (min):*	**11.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**05**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 12:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

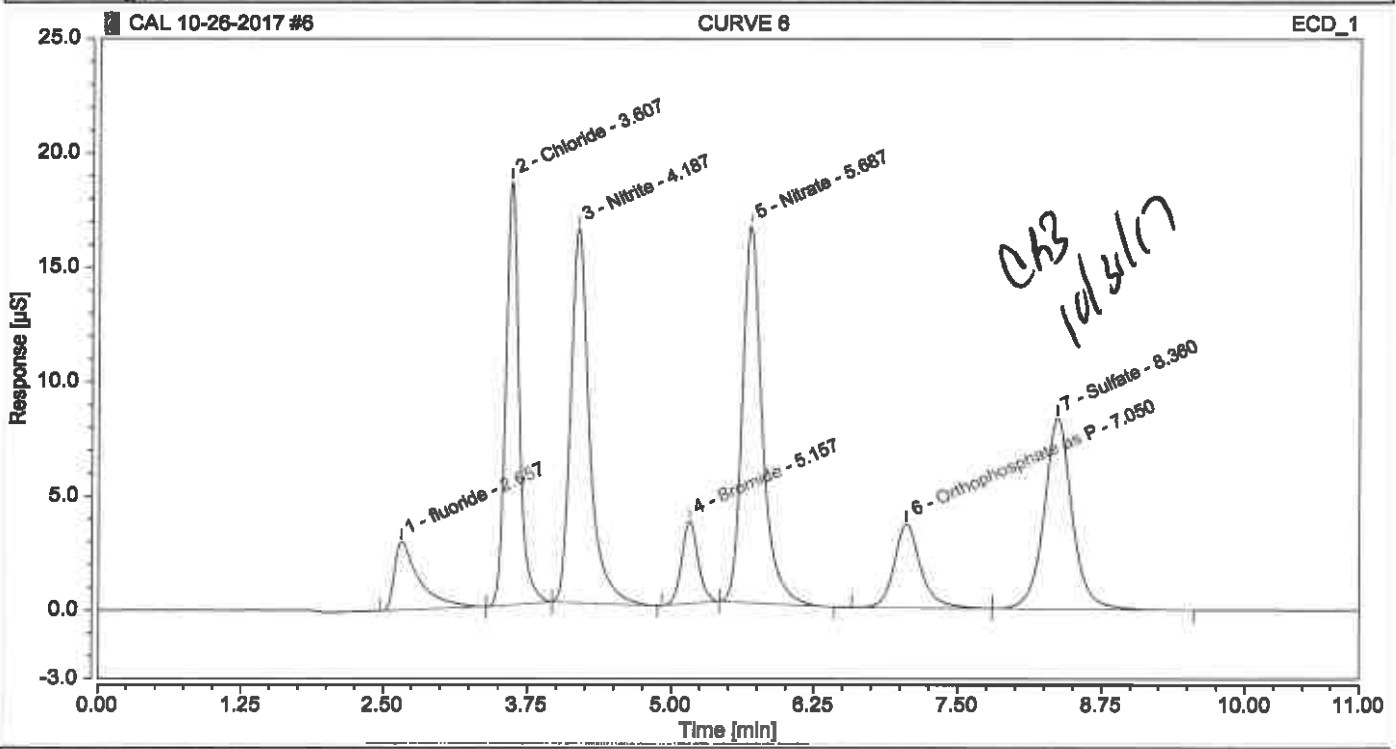
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.660	0.57401	2.246	6.20	4.83	1.5144
2	Chloride	3.610	1.58217	11.782	17.09	25.32	4.9387
3	Nitrite	4.190	1.77177	9.562	19.13	20.55	2.9601
4	Bromide	5.170	0.36025	2.122	3.89	4.56	2.9908
5	Nitrate	5.707	2.48054	11.974	26.79	25.73	2.9994
6	Orthophosphate as P	7.057	0.72562	2.662	7.84	5.72	3.0021
7	Sulfate	8.363	1.76613	6.180	19.07	13.28	7.4841
Total:			**9.260**	**46.528**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	CURVE 6	*Run Time (min):*	**11.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**06**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 12:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

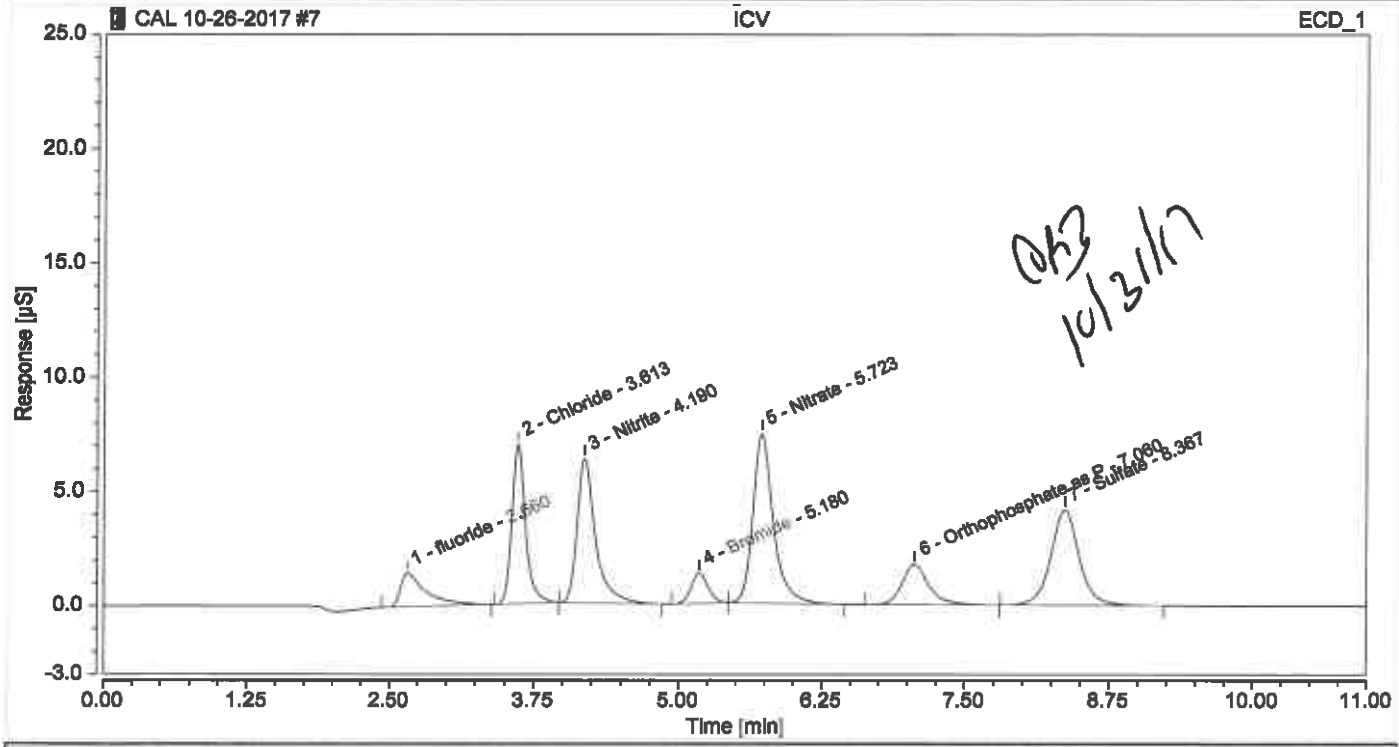
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.657	0.75521	3.008	5.56	4.29	1.9945
2	Chloride	3.607	2.44501	18.547	17.99	26.45	7.5838
3	Nitrite	4.187	3.07372	16.411	22.62	23.41	5.0540
4	Bromide	5.157	0.60692	3.618	4.47	5.16	5.0166
5	Nitrate	5.687	3.35327	16.493	24.67	23.52	4.0336
6	Orthophosphate as P	7.050	0.98437	3.669	7.24	5.23	4.0344
7	Sulfate	8.360	2.37281	8.369	17.46	11.94	10.0482
Total:			**13.591**	**70.115**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**11.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Oct/17 13:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

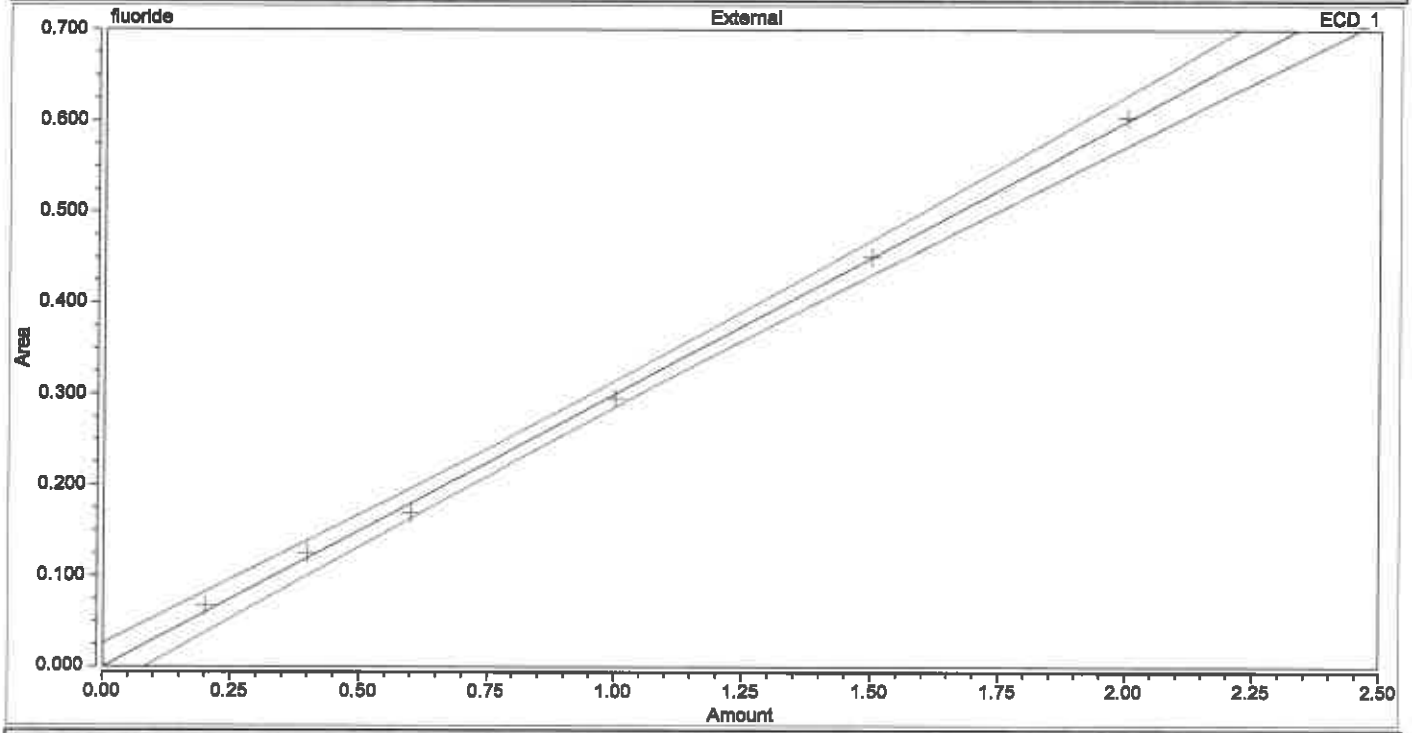
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.660	0.37873	1.474	6.38	4.99	0.9969
2	Chloride	3.613	0.94161	6.972	15.86	23.62	2.9751
3	Nitrite	4.190	1.15744	6.326	19.50	21.43	1.9722
4	Bromide	5.180	0.23069	1.353	3.89	4.58	1.9268
5	Nitrate	5.723	1.55136	7.430	26.13	25.17	1.8984
6	Orthophosphate as P	7.060	0.48454	1.779	8.16	6.02	2.0402
7	Sulfate	8.367	1.19254	4.187	20.09	14.18	5.0597
Total:			**5.937**	**29.521**	**100.00**	**100.00**	

IC5 9/27/17

Calibration

Calibration Details	n.a.		
Calibration Type	n.a.	*Offset (C0)*	-0.0079
Evaluation Type	n.a.	*Slope (C1)*	0.2102
Number of Calibration Points	n.a.	*Curve (C2)*	0.0000
Number of disabled Calibration Points	n.a.	*R-Square*	0.9989

Calibration Plot fluoride



Calibration Results fluoride

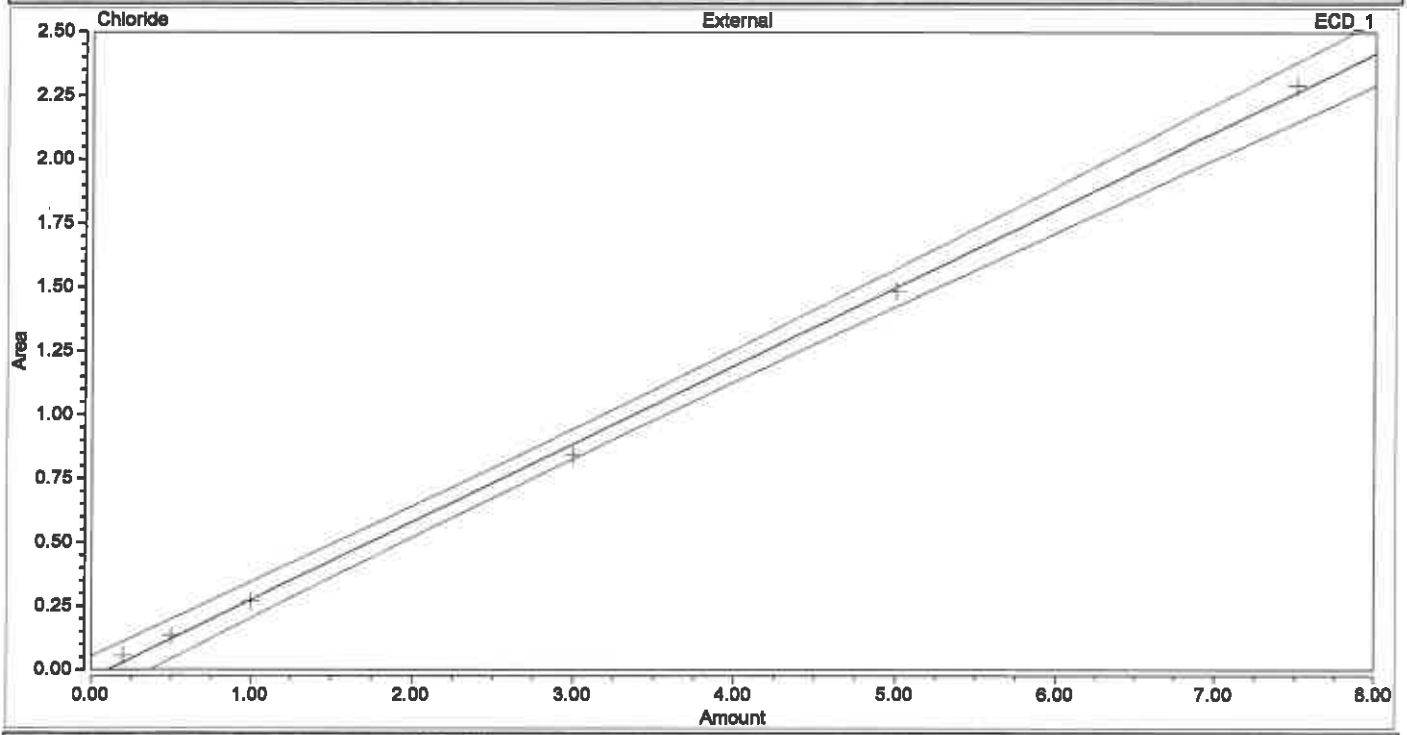
No.	Injection Name	Calibration Level	X Value fluoride ECD_1	Y Value fluoride ECD_1	Y Value fluoride ECD_1	Height µS fluoride ECD_1	Height µS fluoride ECD_1
1	CURVE 1	01	0.2000	0.06687	0.0669	0.227	0.227
2	CURVE 2	02	0.4000	0.12502	0.1250	0.446	0.446
3	CURVE 3	03	0.6000	0.16908	0.1691	0.635	0.635
4	CURVE 4	04	1.0000	0.29522	0.2952	1.117	1.117
5	CURVE 5	05	1.5000	0.45090	0.4509	1.740	1.740
6	CURVE 6	06	2.0000	0.60444	0.6044	2.348	2.348

9/27/17

Calibration

Calibration Details	n.a.		
Calibration Type	n.a.	*Offset (C0)*	-0.0079
Evaluation Type	n.a.	*Slope (C1)*	0.2102
Number of Calibration Points	n.a.	*Curve (C2)*	0.0000
Number of disabled Calibration Points	n.a.	*R-Square*	0.9990

Calibration Plot **Chloride**



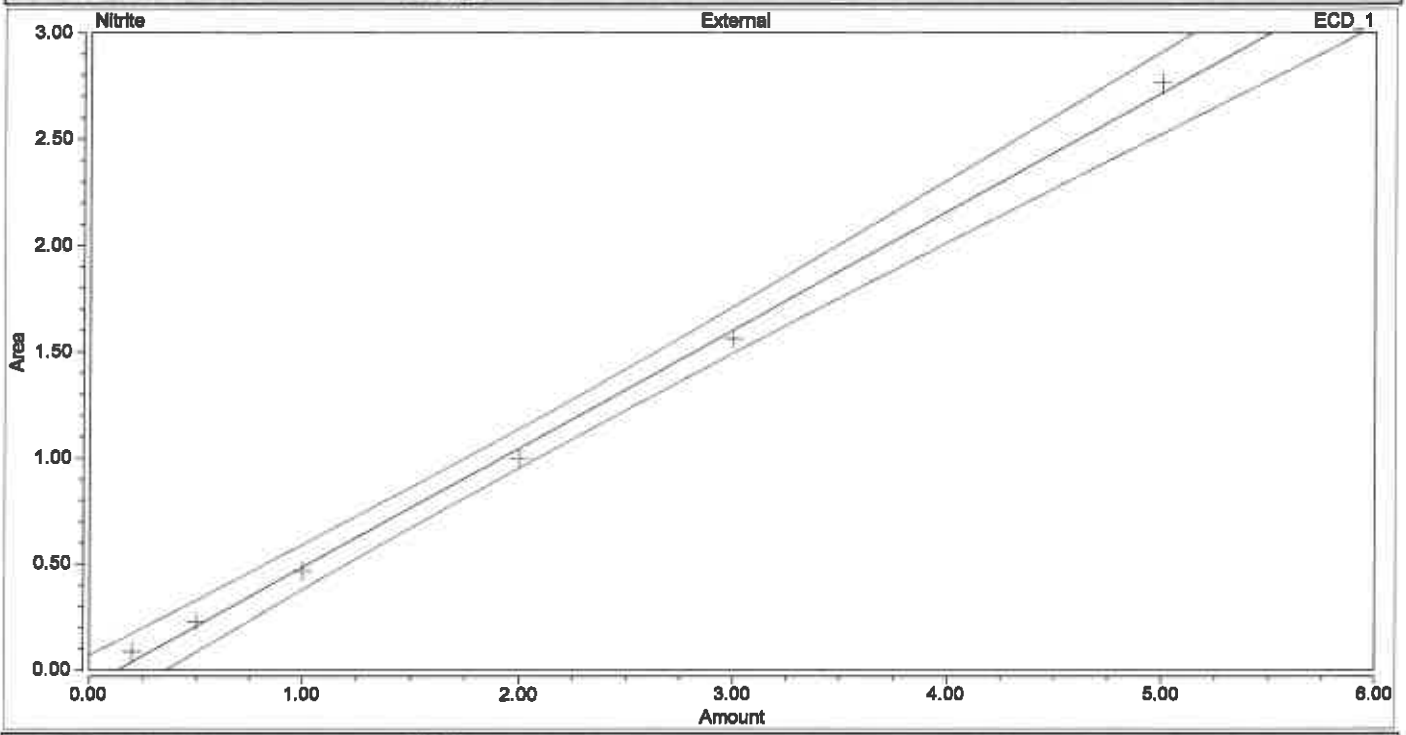
Calibration Results Chloride

No.	Injection Name	Calibration Level	X Value Chloride ECD_1	Y Value Chloride ECD_1	Y Value Chloride ECD_1	Height µS Chloride ECD_1	Height µS Chloride ECD_1
1	CURVE 1	01	0.2000	0.05597	0.0560	0.415	0.415
2	CURVE 2	02	0.5000	0.13439	0.1344	1.018	1.018
3	CURVE 3	03	1.0000	0.26698	0.2670	1.973	1.973
4	CURVE 4	04	3.0000	0.84264	0.8426	6.391	6.391
5	CURVE 5	05	5.0000	1.48721	1.4872	11.347	11.347
6	CURVE 6	06	7.5000	2.29345	2.2935	17.827	17.827

Calibration

Calibration Details	n.a.		
Calibration Type	n.a.	*Offset (C0)*	-0.0079
Evaluation Type	n.a.	*Slope (C1)*	0.2102
Number of Calibration Points	n.a.	*Curve (C2)*	0.0000
Number of disabled Calibration Points	n.a.	*R-Square*	0.9981

Calibration Plot Nitrite



Calibration Results Nitrite

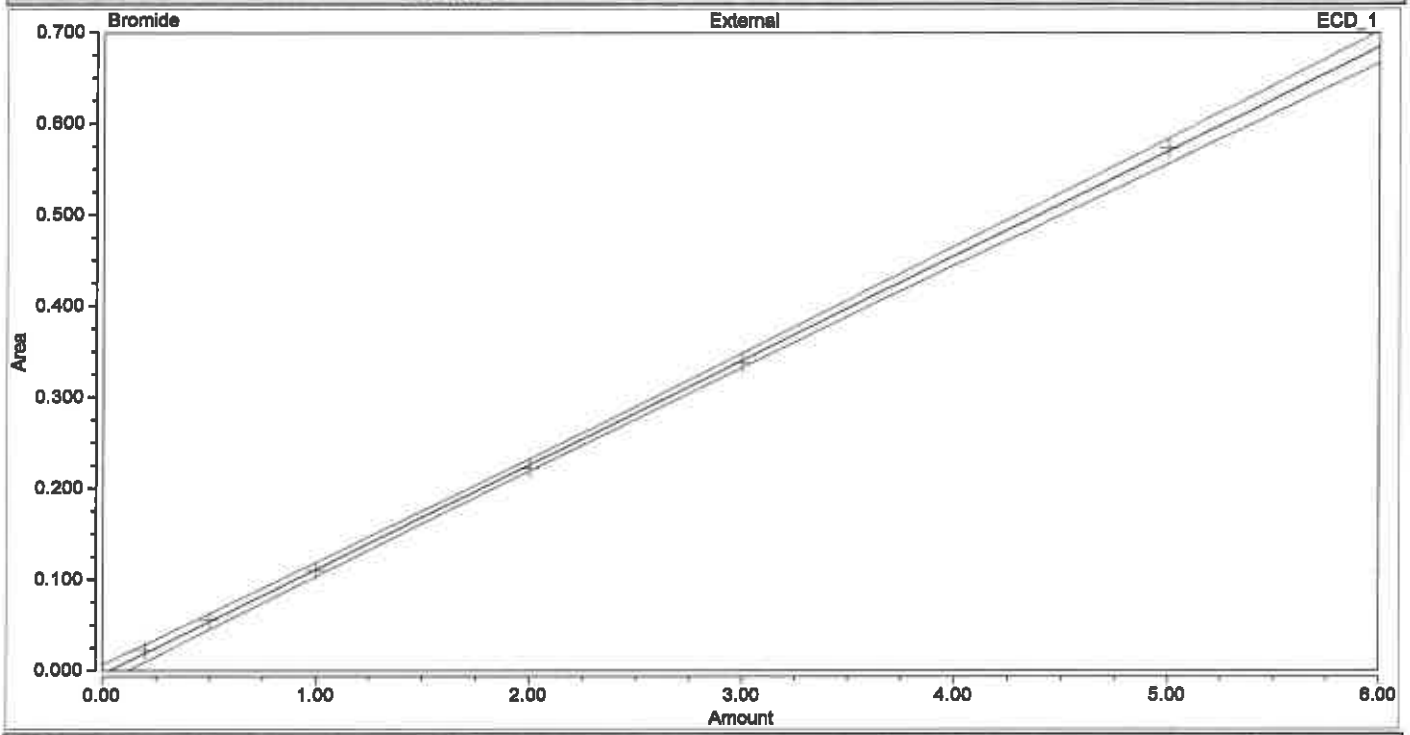
No.	Injection Name	Calibration Level	X Value Nitrite ECD_1	Y Value Nitrite ECD_1	Y Value Nitrite ECD_1	Height µS Nitrite ECD_1	Height µS Nitrite ECD_1
1	CURVE 1	01	0.2000	0.08769	0.0877	0.494	0.494
2	CURVE 2	02	0.5000	0.22785	0.2279	1.306	1.306
3	CURVE 3	03	1.0000	0.46602	0.4660	2.639	2.639
4	CURVE 4	04	2.0000	0.99492	0.9949	5.616	5.616
5	CURVE 5	05	3.0000	1.56052	1.5605	8.763	8.763
6	CURVE 6	06	5.0000	2.76636	2.7664	15.259	15.259

9-27-11

Calibration

Calibration Details	n.a.		
Calibration Type	n.a.	*Offset (C0)*	-0.0079
Evaluation Type	n.a.	*Slope (C1)*	0.2102
Number of Calibration Points	n.a.	*Curve (C2)*	0.0000
Number of disabled Calibration Points	n.a.	*R-Square*	0.9998

Calibration Plot Bromide



Calibration Results **Bromide**

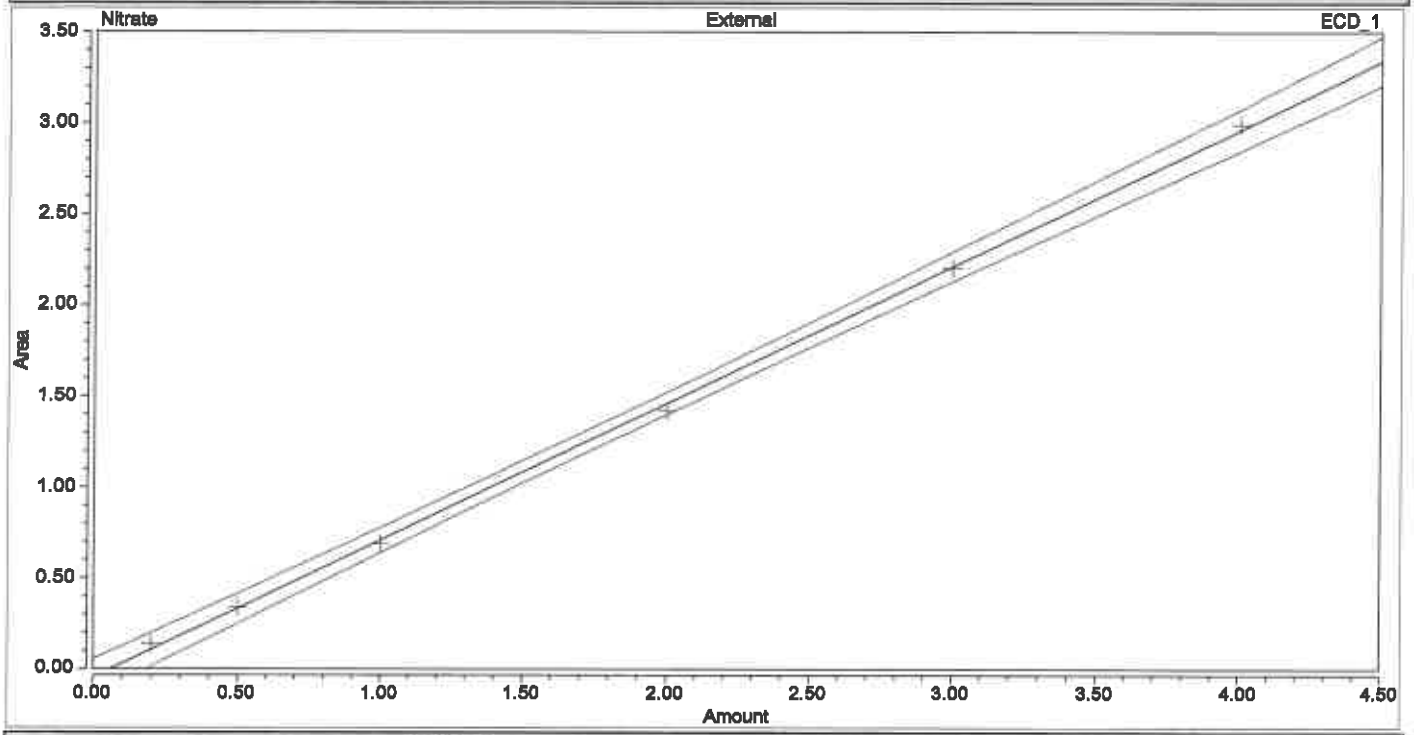
No.	Injection Name	Calibration Level	X Value Bromide ECD_1	Y Value Bromide ECD_1	Y Value Bromide ECD_1	Height µS Bromide ECD_1	Height µS Bromide ECD_1
1	CURVE 1	01	0.2000	0.02257	0.0226	0.131	0.131
2	CURVE 2	02	0.5000	0.05538	0.0554	0.327	0.327
3	CURVE 3	03	1.0000	0.10982	0.1098	0.643	0.643
4	CURVE 4	04	2.0000	0.22218	0.2222	1.316	1.316
5	CURVE 5	05	3.0000	0.33794	0.3379	2.012	2.012
6	CURVE 6	06	5.0000	0.57384	0.5738	3.457	3.457

EG 8-7-12

Calibration

Calibration Details	n.a.		
Calibration Type	n.a.	Offset (C0)	-0.0079
Evaluation Type	n.a.	Slope (C1)	0.2102
Number of Calibration Points	n.a.	Curve (C2)	0.0000
Number of disabled Calibration Points	n.a.	R-Square	0.9993

Calibration Plot **Nitrate**



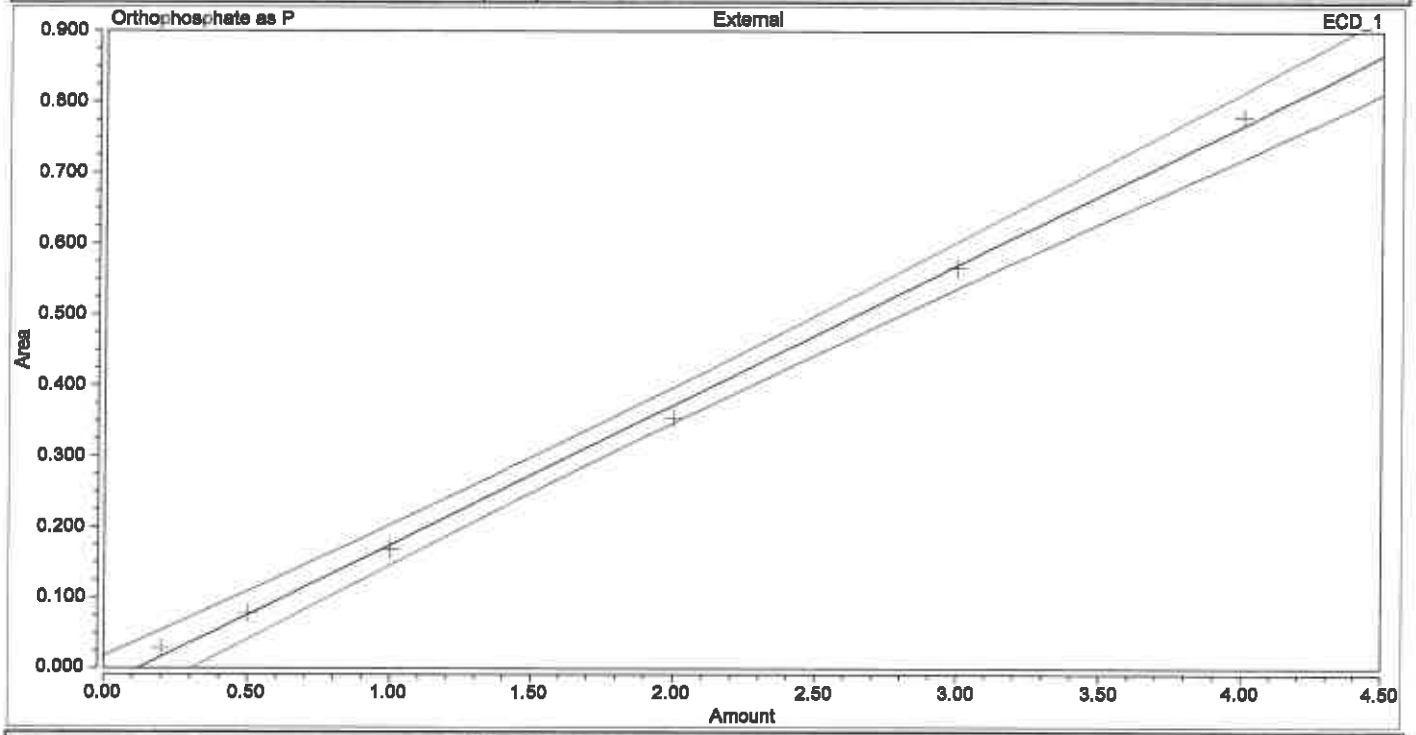
Calibration Results Nitrate

No.	Injection Name	Calibration Level	X Value Nitrate ECD 1	Y Value Nitrate ECD 1	Y Value Nitrate ECD 1	Height µS Nitrate ECD 1	Height µS Nitrate ECD 1
1	CURVE 1	01	0.2000	0.13979	0.1398	0.657	0.657
2	CURVE 2	02	0.5000	0.34115	0.3412	1.674	1.674
3	CURVE 3	03	1.0000	0.68736	0.6874	3.384	3.384
4	CURVE 4	04	2.0000	1.42020	1.4202	7.163	7.163
5	CURVE 5	05	3.0000	2.20559	2.2056	11.276	11.276
6	CURVE 6	06	4.0000	2.99397	2.9940	15.520	15.520

Calibration

Calibration Details	n.a.		
Calibration Type	n.a.	*Offset (C0)*	-0.0079
Evaluation Type	n.a.	*Slope (C1)*	0.2102
Number of Calibration Points	n.a.	*Curve (C2)*	0.0000
Number of disabled Calibration Points	n.a.	*R-Square*	0.9984

Calibration Plot **Orthophosphate as P**



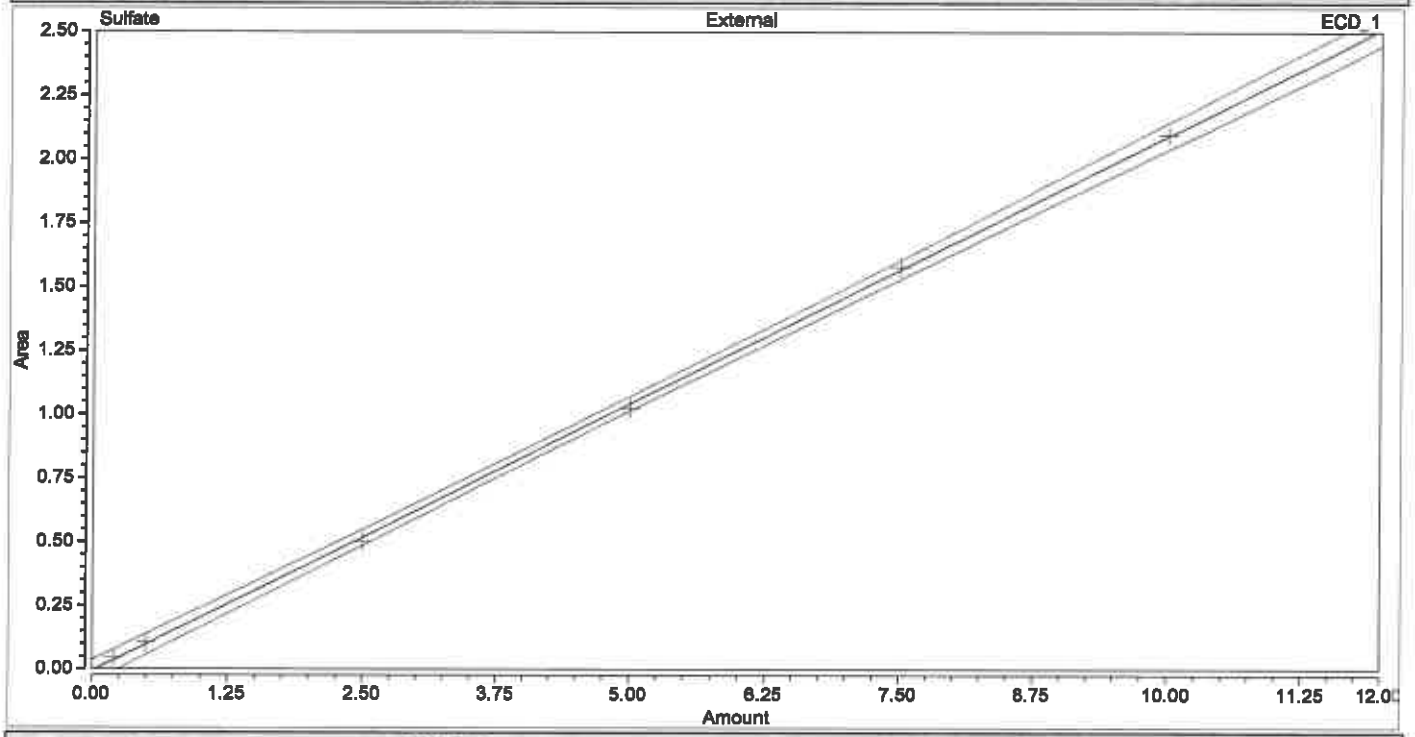
Calibration Results **Orthophosphate as P**

No.	Injection Name	Calibration Level	X Value rthophosphate as ECD_1	Y Value rthophosphate as ECD_1	Y Value thophosphate a ECD_1	Height µS rthophosphate as ECD_1	Height µS thophosphate as ECD_1
1	CURVE 1	01	0.2000	0.02834	0.0283	0.082	0.082
2	CURVE 2	02	0.5000	0.07894	0.0789	0.243	0.243
3	CURVE 3	03	1.0000	0.16855	0.1686	0.547	0.547
4	CURVE 4	04	2.0000	0.35439	0.3544	1.252	1.252
5	CURVE 5	05	3.0000	0.56654	0.5665	2.048	2.048
6	CURVE 6	06	4.0000	0.78077	0.7808	2.886	2.886

Calibration

Calibration Details	n.a.		
Calibration Type	n.a.	*Offset (C0)*	-0.0079
Evaluation Type	n.a.	*Slope (C1)*	0.2102
Number of Calibration Points	n.a.	*Curve (C2)*	0.0000
Number of disabled Calibration Points	n.a.	*R-Square*	0.9997

Calibration Plot Sulfate



Calibration Results Sulfate

No.	Injection Name	Calibration Level	X Value Sulfate ECD_1	Y Value Sulfate ECD_1	Y Value Sulfate ECD_1	Height µS Sulfate ECD_1	Height µS Sulfate ECD_1
1	CURVE 1	01	0.2000	0.04566	0.0457	0.159	0.159
2	CURVE 2	02	0.5000	0.10451	0.1045	0.363	0.363
3	CURVE 3	03	2.5000	0.50186	0.5019	1.770	1.770
4	CURVE 4	04	5.0000	1.02488	1.0249	3.676	3.676
5	CURVE 5	05	7.5000	1.57908	1.5791	5.692	5.692
6	CURVE 6	06	10.0000	2.09879	2.0988	7.643	7.643

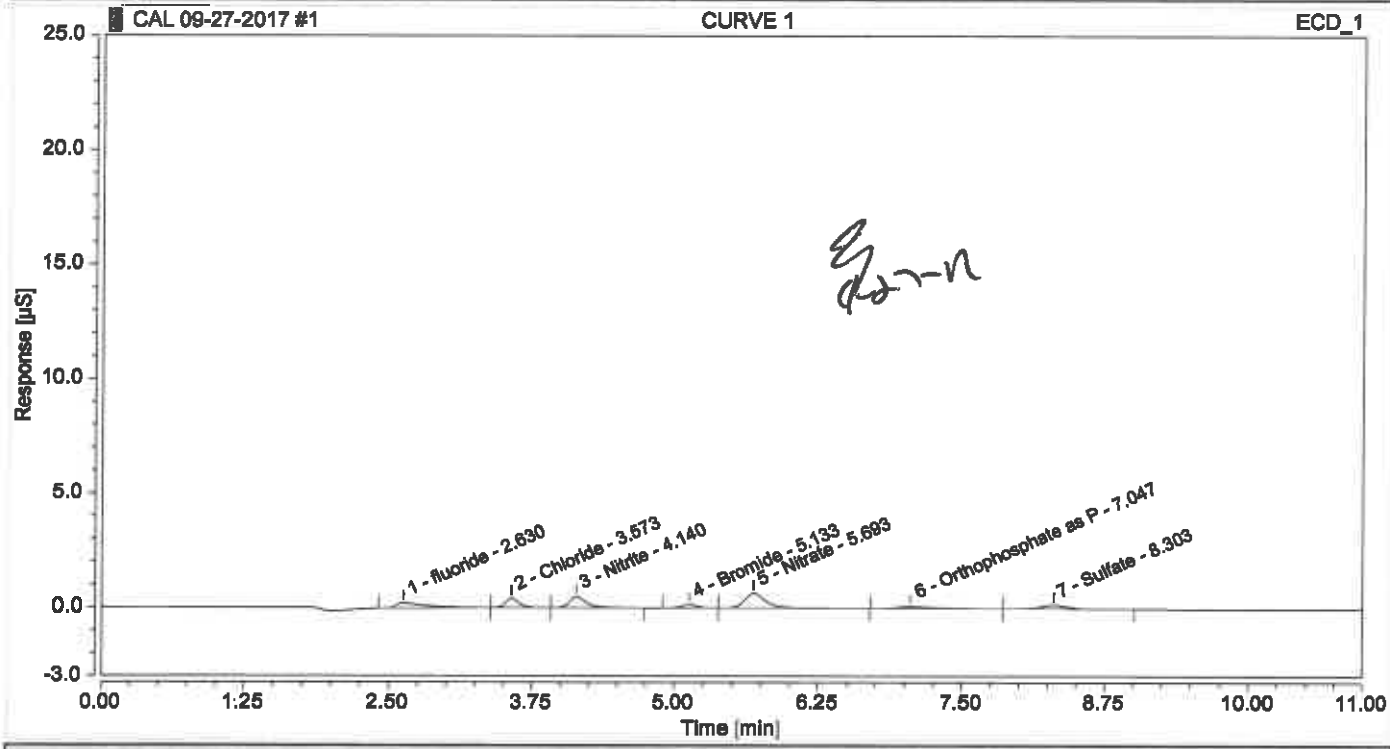
EJ 9-07-17

Chromatogram and Results

Injection Details

Injection Name:	CURVE 1	*Run Time (min):*	**11.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**01**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 09:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

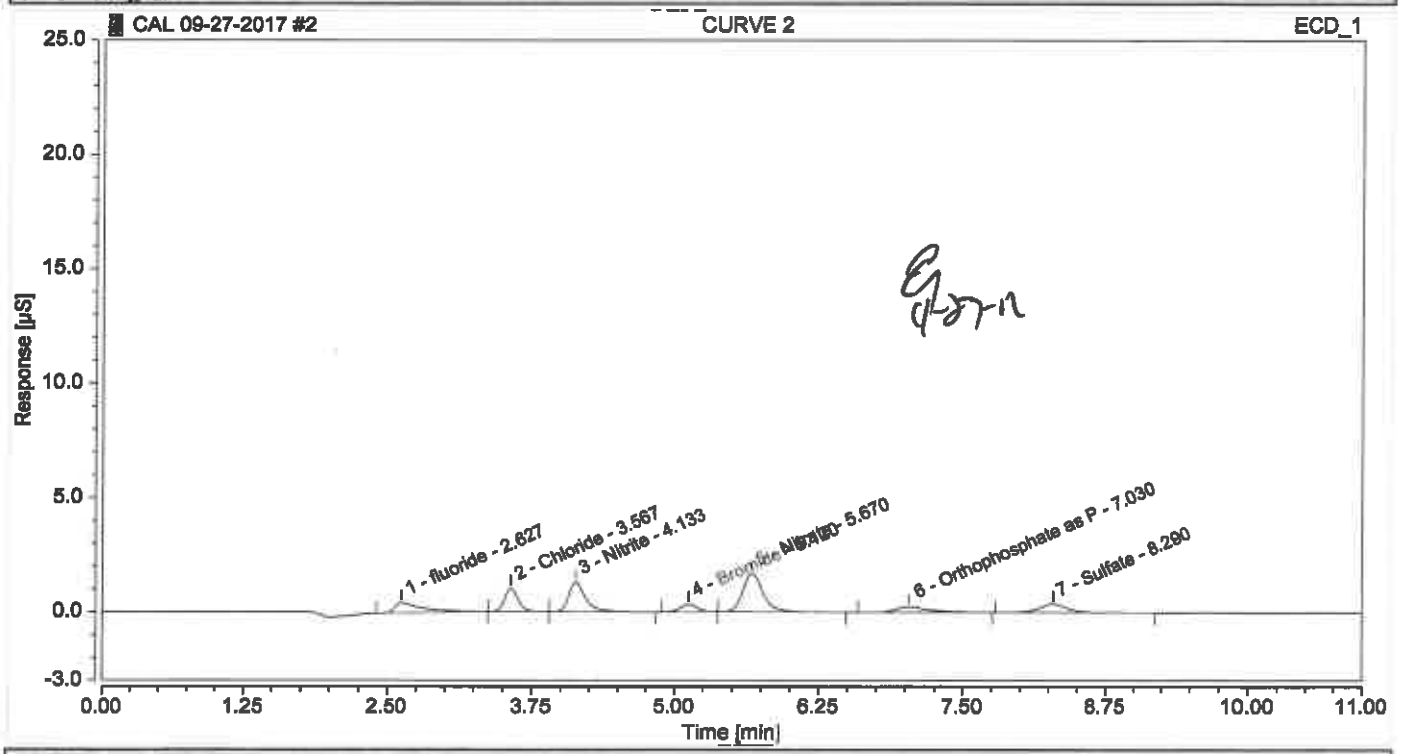
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.630	0.06687	0.227	14.96	10.47	0.2229
2	Chloride	3.573	0.05597	0.415	12.52	19.18	0.2868
3	Nitrite	4.140	0.08769	0.494	19.62	22.83	0.2853
4	Bromide	5.133	0.02257	0.131	5.05	6.05	0.2284
5	Nitrate	5.693	0.13979	0.657	31.28	30.31	0.2434
6	Orthophosphate as P	7.047	0.02834	0.082	6.34	3.81	0.2614
7	Sulfate	8.303	0.04566	0.159	10.22	7.35	0.2550
Total:			**0.447**	**2.166**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 2**	*Run Time (min):*	**11.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**02**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 09:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

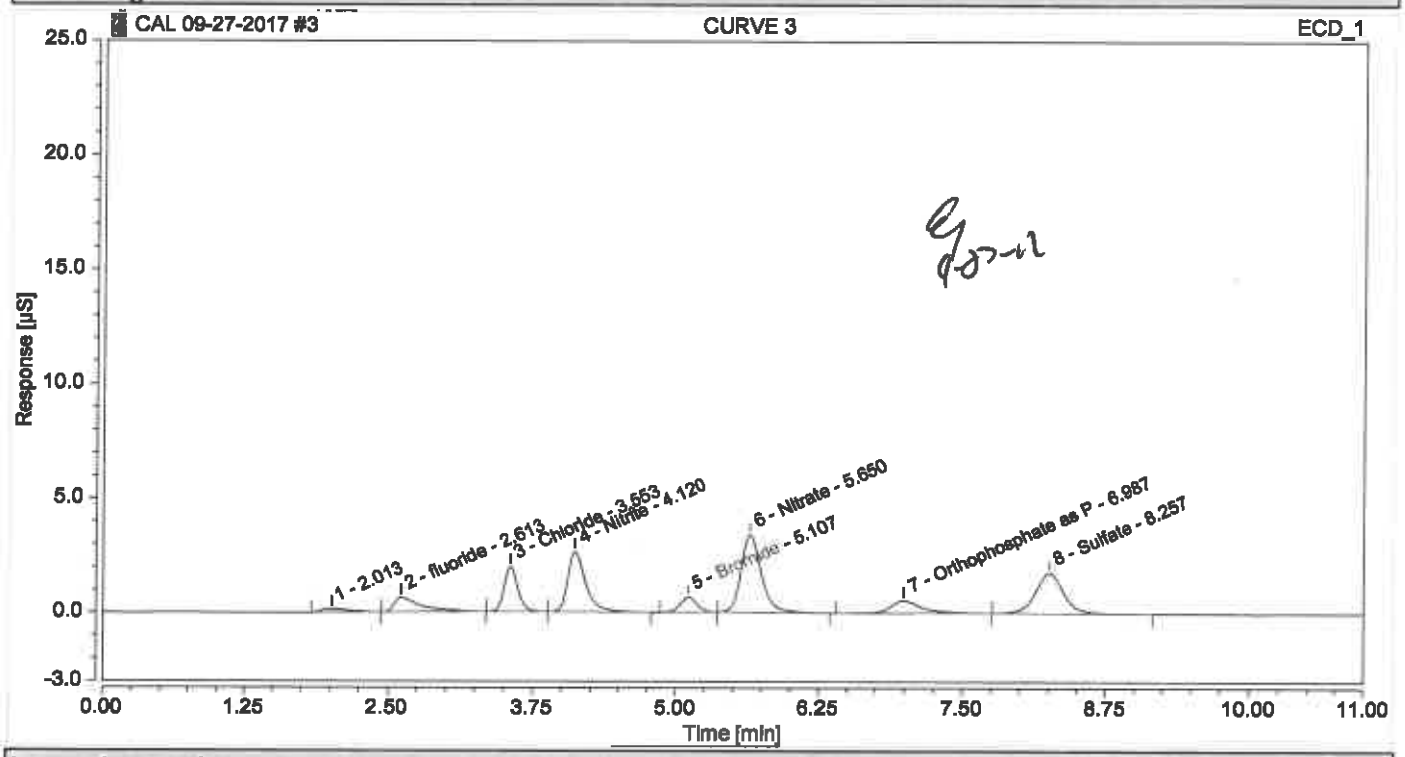
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.627	0.12502	0.446	11.71	8.30	0.4165
2	Chloride	3.567	0.13439	1.018	12.59	18.93	0.5426
3	Nitrite	4.133	0.22785	1.306	21.35	24.29	0.5363
4	Bromide	5.120	0.05538	0.327	5.19	6.08	0.5140
5	Nitrate	5.670	0.34115	1.674	31.97	31.13	0.5112
6	Orthophosphate as P	7.030	0.07894	0.243	7.40	4.53	0.5170
7	Sulfate	8.290	0.10451	0.363	9.79	6.74	0.5349
Total:			**1.067**	**5.376**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 3**	*Run Time (min):*	**11.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 09:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

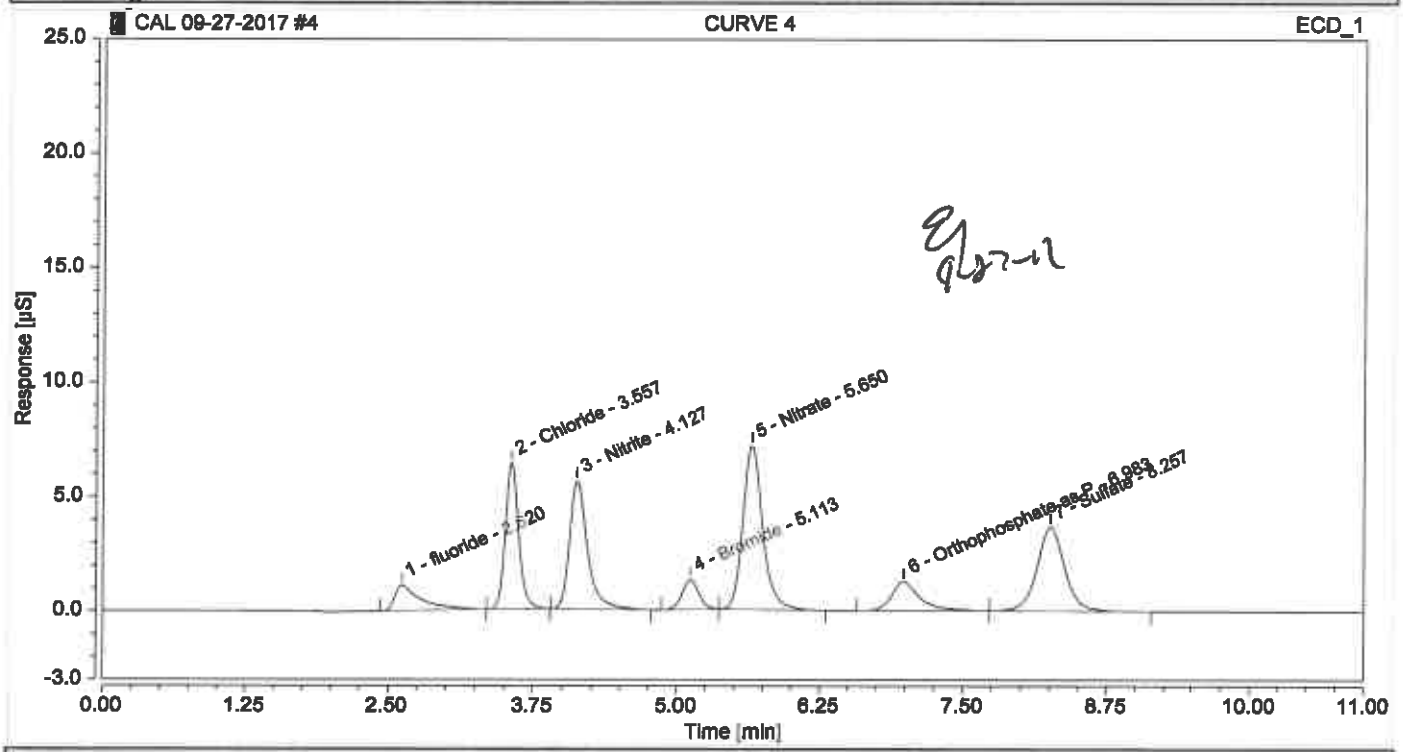
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.013	0.04188	0.145	1.74	1.23	n.a.
2	fluoride	2.613	0.16908	0.635	7.01	5.41	0.5632
3	Chloride	3.553	0.26698	1.973	11.07	16.81	0.9752
4	Nitrite	4.120	0.46602	2.639	19.32	22.48	0.9628
5	Bromide	5.107	0.10982	0.643	4.55	5.48	0.9881
6	Nitrate	5.650	0.68736	3.384	28.50	28.84	0.9714
7	Orthophosphate as P	6.987	0.16855	0.547	6.99	4.66	0.9698
8	Sulfate	8.257	0.50186	1.770	20.81	15.08	2.4252
Total:			**2.412**	**11.736**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 4**	*Run Time (min):*	**11.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 09:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

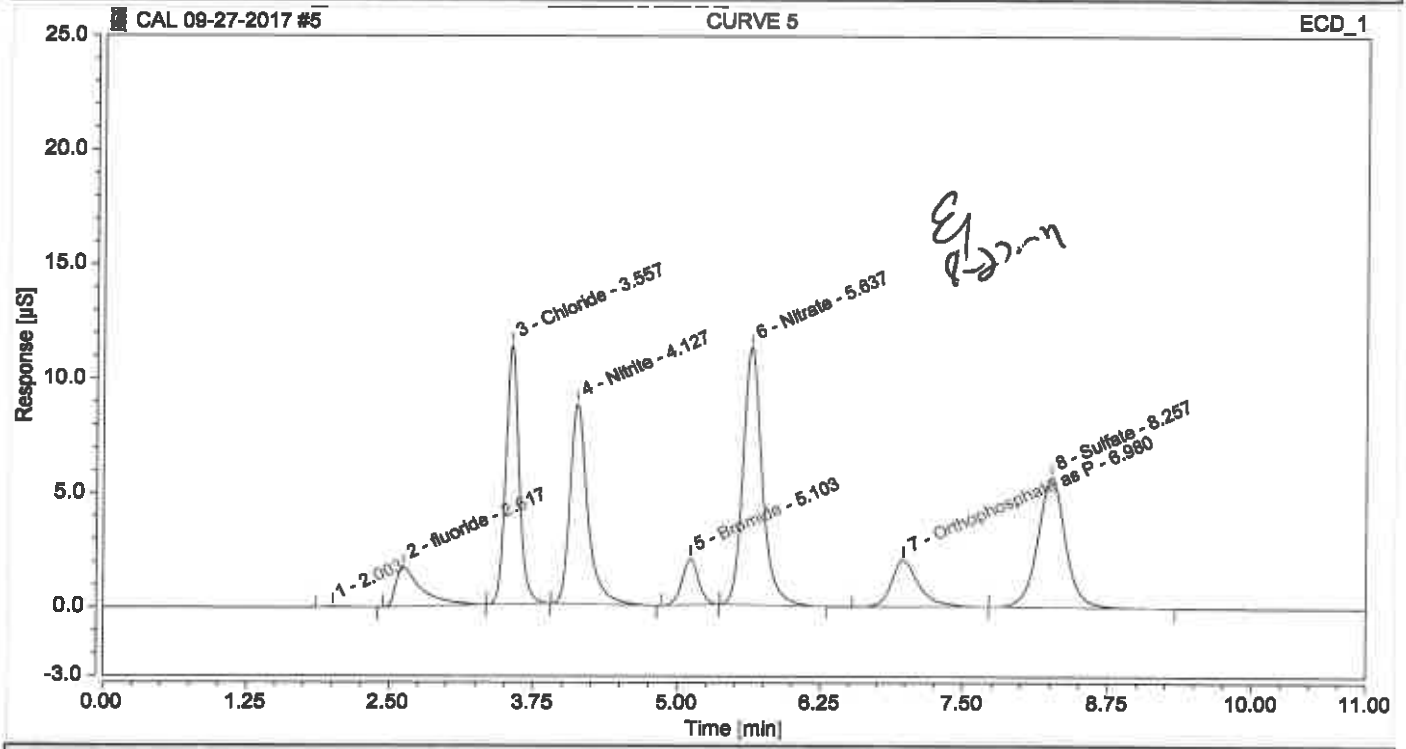
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.620	0.29522	1.117	5.73	4.21	0.9832
2	Chloride	3.557	0.84264	6.391	16.35	24.09	2.8532
3	Nitrite	4.127	0.99492	5.616	19.30	21.17	1.9101
4	Bromide	5.113	0.22218	1.316	4.31	4.96	1.9665
5	Nitrate	5.650	1.42020	7.163	27.55	27.00	1.9458
6	Orthophosphate as P	6.983	0.35439	1.252	6.88	4.72	1.9086
7	Sulfate	8.257	1.02488	3.676	19.88	13.86	4.9133
Total:			**5.154**	**26.532**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 5**	*Run Time (min):*	**11.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**05**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 10:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

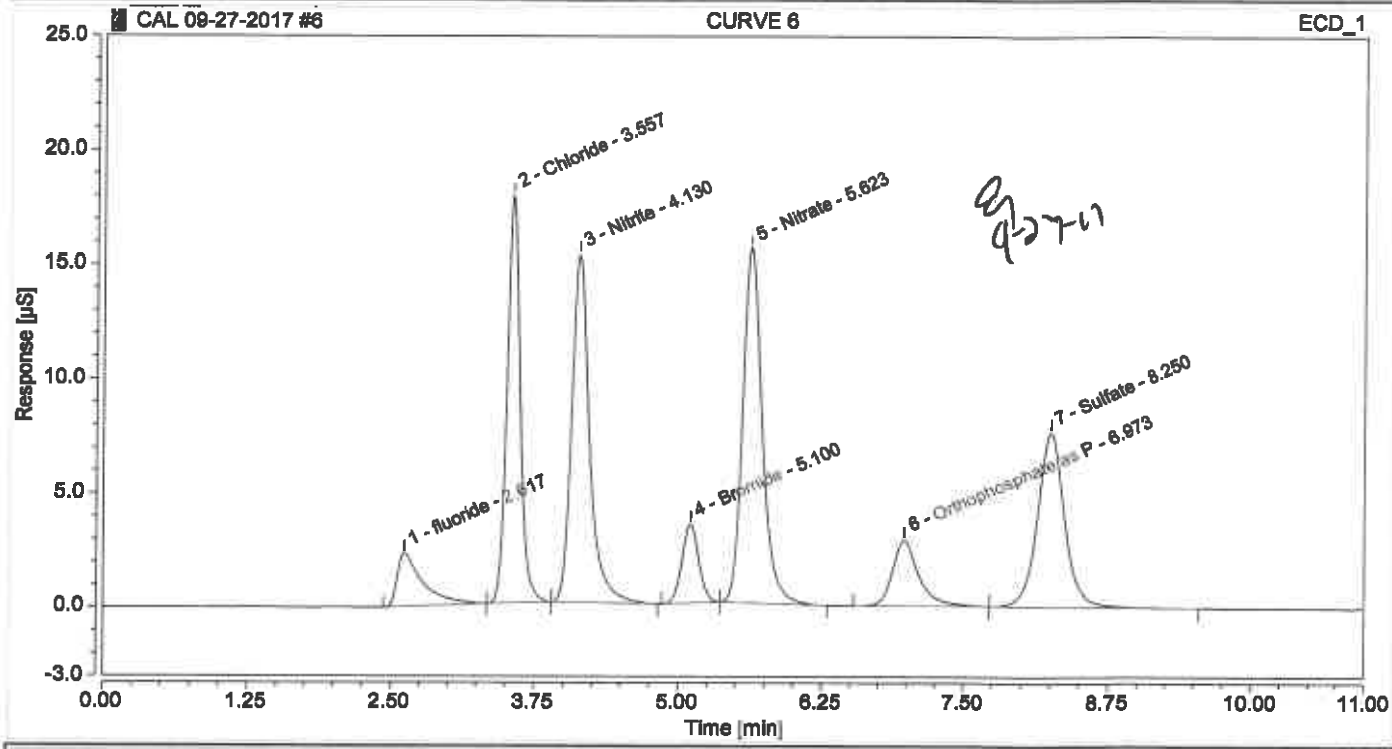
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1		2.003	0.01124	0.040	0.14	0.09	n.a.
2	fluoride	2.617	0.45090	1.740	5.50	4.05	1.5015
3	Chloride	3.557	1.48721	11.347	18.14	26.44	4.9560
4	Nitrite	4.127	1.56052	8.763	19.03	20.42	2.9230
5	Bromide	5.103	0.33794	2.012	4.12	4.69	2.9745
6	Nitrate	5.637	2.20559	11.276	26.90	26.27	2.9900
7	Orthophosphate as P	6.980	0.56654	2.048	6.91	4.77	2.9804
8	Sulfate	8.257	1.57908	5.692	19.26	13.26	7.5496
Total:			**8.199**	**42.918**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CURVE 6**	*Run Time (min):*	**11.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**06**	*Comments:*	**IC Stock I**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 10:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

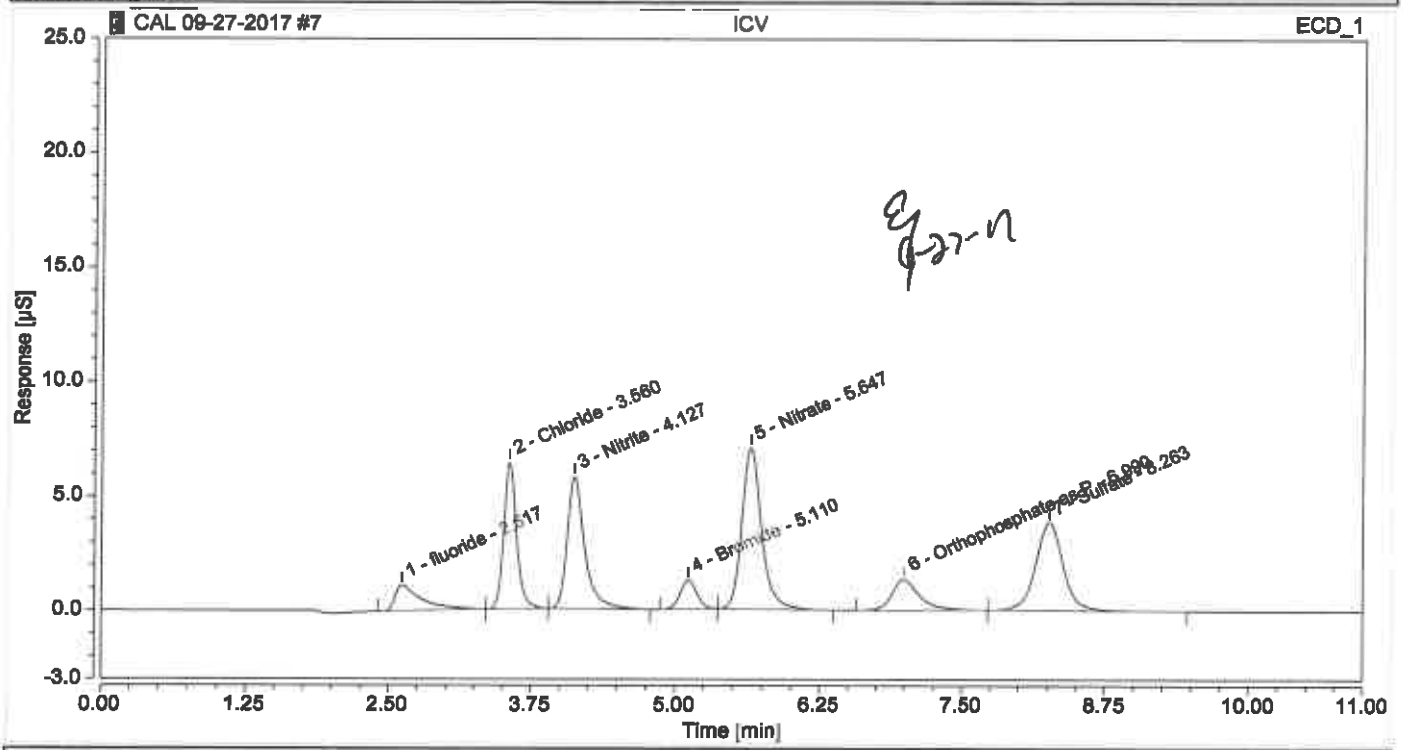
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.617	0.60444	2.348	4.99	3.62	2.0127
2	Chloride	3.557	2.29345	17.827	18.94	27.45	7.5862
3	Nitrite	4.130	2.76636	15.259	22.84	23.50	5.0826
4	Bromide	5.100	0.57384	3.457	4.74	5.32	5.0286
5	Nitrate	5.623	2.99397	15.520	24.72	23.90	4.0382
6	Orthophosphate as P	6.973	0.78077	2.886	6.45	4.44	4.0627
7	Sulfate	8.250	2.09879	7.643	17.33	11.77	10.0220
Total:			**12.112**	**64.939**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**11.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Comments:*	**IC Stock II**
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 10:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

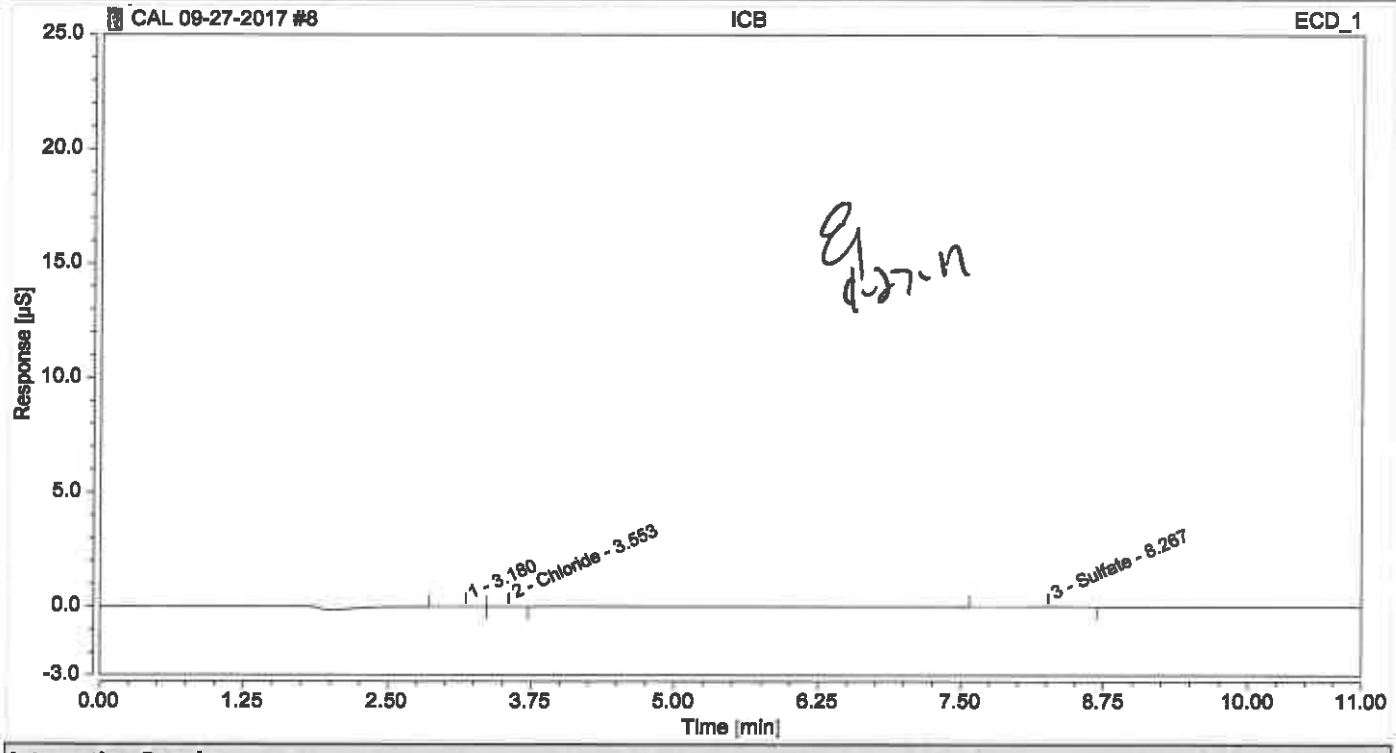
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.617	0.29708	1.129	5.70	4.20	0.9894
2	Chloride	3.560	0.83929	6.420	16.11	23.89	2.8423
3	Nitrite	4.127	1.01984	5.788	19.58	21.53	1.9547
4	Bromide	5.110	0.21423	1.276	4.11	4.75	1.8972
5	Nitrate	5.647	1.38990	7.061	26.68	26.27	1.9055
6	Orthophosphate as P	6.990	0.37824	1.348	7.26	5.02	2.0291
7	Sulfate	8.263	1.07035	3.855	20.55	14.34	5.1296
Total:			**5.209**	**26.877**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**11.00**
Vial Number:	**RA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Comments:*	
Instrument Method:	**Seven Anion**		**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**27/Sep/17 10:40**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.180	0.00157	0.008	13.15	18.03	n.a.
2	Chloride	3.553	0.00149	0.011	12.46	25.58	0.1091
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.267	0.00889	0.023	74.39	56.40	0.0801
Total:			**0.012**	**0.042**	**100.00**	**100.00**	

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

3.2 | C3.2

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-94740.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jim.knapp@testamericainc.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-136132-1
Address: 4101 Shuffel Street NW,	Due Date Requested: 10/31/2017			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Ellsworth Industrial Park	Project #: 50013395			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

PSK - MS

Special Instructions/Note:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Sediment, Drinking Water, Wastewater, Air, Tissue, Air/Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ NEE Only	8260B_SIM/5030B (MOD) Local Method	Total Number of containers
			Preservation Code:						
OMW1D-GW-102317 (500-136132-1)	10/23/17	12:30 Central		Water			X	X	6
EIP-DUP-102317 (500-136132-2)	10/23/17	12:30 Central		Water			X	X	6

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 10/24/17 @ 1600	Company TA	Received by: POP	Date/Time: 10-25-17 920	Company TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :**_____
Canton Facility

Client TA CHICAGO Site Name —
Cooler Received on 10-25-17 Opened on 10-25-17
Cooler unpacked by: BOP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. 3.2 °C
   IR GUN #36 (CF +0.3°C) Observed Cooler Temp.____ °C Corrected Cooler Temp.____ °C
   IR GUN # 627 (CF -1.3°C) Observed Cooler Temp.____ °C Corrected Cooler Temp.____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC697954
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____.

Ref: SOP NC-SC-0003, Sample Receiving
\\tacorp\corp\QA\QA_Facilities\Canton-QA\Document-Management\Work-Instruction\Word Version Work Instructions\WI-NC-099-100317 Cooler Receipt Form (3).doc djl

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

500-136132 COC

Client Information	Sampler: Ben Chan	Lab PM: Knapp, Jim D	COC No: 500-56143-27461.4
Client Contact: Ms. Cynthia Bonczkiewicz	Phone: 312-288-3850	E-Mail: jim.knapp@testamericainc.com	Page: ~~Page 1 of 4~~ 1/1
Company: Ramboll Environ US Corporation			Job #: 500-136132
Address: 333 W Wacker Drive Suite 2700	Due Date Requested:		
City: Chicago	TAT Requested (days): 5-7 (Standard)		
State, Zip: IL, 60606			
Phone: 312-288-3800(Tel)	PO #: Purchase Order not required		
Email: cbonczkiewicz@environcorp.com	WO #:		
Project Name: Ellsworth Industrial Park	Project #: 50013395		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	8260B_SIM - 1,4-Dioxane (to Canton)	RSK_175 - Diss Gases - MEE Only	9056A - Anions, ~~pH~~	SM4500_S2_F - Sulfide	9060A - TOC	3500_Fe2_B_Calc - Ferrous Iron - 48Hr HT	8082A - PCBs	6010B - RCRA Metals	8260B - VOCs	6010B, 8082A, 8270D			Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	A	A	N	CB	S	N	N	D		N				
1	OMW10-GW-102317	10/23/17	1230	G	Water			X	X	X	X	X	X								13	
2	EIP-DUP-102317	10/23/17	1230	G	Water			X	X	X	X	X	X								13	
3	~~TB~~ EIP-TB08-102317	10/23/17	—	G	Water			X													3	
4	EIP-EB-102317	10/23/17	1350	G	Water			X													3	
					Water																	
					Water																	
					Water																	
					Water																	
					Water																	
					Solid																	
					Solid																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: VOCs for target compounds only

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1640 10/23/17	Ramboll	[signature]	10/23/17	TA
[signature]	10/24/17 1100	[signature]	[signature]	10/24/17 @ 1100	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.1 4°C

11/09/2017

Login Sample Receipt Checklist

Client: Ramboll Environ US Corporation

Job Number: 500-136132-1

Login Number: 136132
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	