ANALYTICAL REPORT

Job Number: 500-53164-1

Job Description: Vulcan Louisville Fansteel

For:
Oneida Total Integrated Enterprises LLC
100 West Monroe
Suite 300
Chicago, IL 60603

Attention: Mr. Raghu Nagam

Approved for release.
Donna L Ingersoll
Project Manager II
1/3/2013 11:30 AM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
01/03/2013

cc: Mr. Naren Babu

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

The Lab Certification ID#:
TestAmerica Chicago 100201
TestAmerica Burlington VT00008

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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Job Narrative
500-53164-1

Comments
No additional comments.

Receipt
The samples were received on 12/12/2012 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4º C.

Except:

Sample #2 we received 1 broken TOC vial and 1 VOC vial broken. 1-TOC vial remains and 2-VOC vials remain.
Sample #5 we receivbed 1 broken MEE vial, 2 vials remain.

GC/MS VOA
Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: VLF-MW-6 (500-53164-1), VLF-MW-6A (500-53164-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
Method(s) 300.0: The following IC nitrite samples in batch 173019 were analyzed outside of analytical holding time by approximately 10 to 40 minutes due to an instrument malfunction: VLF-MW-2 (500-53164-5), VLF-MW-5 (500-53164-4), VLF-MW-6A (500-53164-2). The problem was fixed and the samples were run in the order of sampling as soon as possible.

Method(s) 300.0, 9056: The following IC nitrate samples in batch 173019 were analyzed outside of analytical holding time by approximately anywhere between 10 minutes to 2 and a half hours, due to an instrument malfunction: VLF-MW-5 (500-53164-4), VLF-MW-6A (500-53164-2). The problem was fixed and the samples were run in the order of sampling as soon as possible.

Method(s) 300.0: The following IC samples in batch 173019 were diluted due to the abundance of non-target analytes: VLF-MW-2 (500-53164-5). Elevated reporting limits (RLs) for nitrite are provided.

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: CMS22 Analysis Batch Number: 172615

Lab Sample ID: STD01 500-172615/2 IC Client Sample ID:

Date Analyzed: 12/11/12 14:23 Lab File ID: 22I1211A.D GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.55	Baseline	alikpalae	12/11/12 19:50

Lab Sample ID: STD02 500-172615/3 IC Client Sample ID:

Date Analyzed: 12/11/12 14:51 Lab File ID: 22I1211B.D GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.01	Baseline	alikpalae	12/11/12 19:54
Acetonitrile	3.59	Split Peak	alikpalae	12/11/12 19:54
Tetrachloroethene	9.75	Split Peak	alikpalae	12/11/12 19:54

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Instrument ID: 2866.i Analysis Batch Number: 49681

Lab Sample ID: 500-53164-3 MS Client Sample ID: VLF-MW-7 MS

Date Analyzed: 12/17/12 16:33 Lab File ID: 17dec121527-r091.d GC Column: RT-U-Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	0.55	Baseline event	sheldont	12/18/12 10:08

Lab Sample ID: 500-53164-3 MSD Client Sample ID: VLF-MW-7 MSD

Date Analyzed: 12/17/12 16:38 Lab File ID: 17dec121527-r101.d GC Column: RT-U-Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	0.56	Baseline event	sheldont	12/18/12 10:07

RSK-175

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-53164-1	VLF-MW-6	Water	12/11/2012 1011	12/12/2012 1020
500-53164-2	VLF-MW-6A	Water	12/11/2012 1011	12/12/2012 1020
500-53164-3	VLF-MW-7	Water	12/11/2012 1130	12/12/2012 1020
500-53164-3MS	VLF-MW-7	Water	12/11/2012 1130	12/12/2012 1020
500-53164-3MSD	VLF-MW-7	Water	12/11/2012 1130	12/12/2012 1020
500-53164-4	VLF-MW-5	Water	12/11/2012 1223	12/12/2012 1020
500-53164-5	VLF-MW-2	Water	12/11/2012 1420	12/12/2012 1020
500-53164-6	TRIP BLANK	Water	12/11/2012 0000	12/12/2012 1020

EXECUTIVE SUMMARY - Detections

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
500-53164-1	**VLF-MW-6**					
trans-1,2-Dichloroethene		280		10	ug/L	8260B
cis-1,2-Dichloroethene		14000		100	ug/L	8260B
Trichloroethene		170		5.0	ug/L	8260B
Toluene		2.0	J	5.0	ug/L	8260B
Vinyl chloride		4400		50	ug/L	8260B
Methane		50		2.0	ug/L	RSK-175
Ethylene		37		3.0	ug/L	RSK-175
Arsenic		0.0048	J	0.010	mg/L	6010B
Barium		0.076		0.010	mg/L	6010B
Cadmium		0.00078	J	0.0020	mg/L	6010B
Chromium		0.0014	J	0.010	mg/L	6010B
Selenium		0.0047	J	0.010	mg/L	6010B
Chloride		83		4.0	mg/L	300.0
Sulfate		180		4.0	mg/L	300.0
Alkalinity		410		5.0	mg/L	SM 2320B
TOC Result 1		4.0		1.0	mg/L	SM 5310C
TOC Result 2		3.8		1.0	mg/L	SM 5310C
TOC Dup		3.9		1.0	mg/L	SM 5310C
500-53164-2	**VLF-MW-6A**					
trans-1,2-Dichloroethene		270		20	ug/L	8260B
cis-1,2-Dichloroethene		12000		200	ug/L	8260B
Trichloroethene		160		10	ug/L	8260B
Vinyl chloride		3800		10	ug/L	8260B
Methane		47		2.0	ug/L	RSK-175
Ethylene		36		3.0	ug/L	RSK-175
Arsenic		0.0061	J	0.010	mg/L	6010B
Barium		0.071		0.010	mg/L	6010B
Mercury		0.071	J	0.20	ug/L	7470A
Chloride		89		5.0	mg/L	300.0
Sulfate		230		5.0	mg/L	300.0
Alkalinity		410		5.0	mg/L	SM 2320B
TOC Result 1		3.8		1.0	mg/L	SM 5310C
TOC Result 2		3.8		1.0	mg/L	SM 5310C
TOC Dup		3.8		1.0	mg/L	SM 5310C

EXECUTIVE SUMMARY - Detections

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
500-53164-3	**VLF-MW-7**					
cis-1,2-Dichloroethene		1.3		1.0	ug/L	8260B
Methane		1.4	J	2.0	ug/L	RSK-175
Barium		0.056		0.010	mg/L	6010B
Cadmium		0.00080	J	0.0020	mg/L	6010B
Chloride		35		2.0	mg/L	300.0
Nitrate as N		0.21		0.20	mg/L	300.0
Sulfate		550		20	mg/L	300.0
Alkalinity		350		5.0	mg/L	SM 2320B
TOC Result 1		2.9		1.0	mg/L	SM 5310C
TOC Result 2		3.0		1.0	mg/L	SM 5310C
TOC Dup		2.9		1.0	mg/L	SM 5310C
500-53164-4	**VLF-MW-5**					
cis-1,2-Dichloroethene		0.63	J	1.0	ug/L	8260B
Barium		0.11		0.010	mg/L	6010B
Cadmium		0.0010	J	0.0020	mg/L	6010B
Chromium		0.0011	J	0.010	mg/L	6010B
Lead		0.0044	J	0.0050	mg/L	6010B
Selenium		0.0033	J	0.010	mg/L	6010B
Chloride		17		2.0	mg/L	300.0
Sulfate		280		10	mg/L	300.0
Alkalinity		400		5.0	mg/L	SM 2320B
TOC Result 1		1.7		1.0	mg/L	SM 5310C
TOC Result 2		1.7		1.0	mg/L	SM 5310C
TOC Dup		1.7		1.0	mg/L	SM 5310C
500-53164-5	**VLF-MW-2**					
Trichloroethene		0.56		0.50	ug/L	8260B
Methane		13		2.0	ug/L	RSK-175
Barium		0.039		0.010	mg/L	6010B
Cadmium		0.0011	J	0.0020	mg/L	6010B
Lead		0.012		0.0050	mg/L	6010B
Mercury		0.10	J	0.20	ug/L	7470A
Chloride		390		20	mg/L	300.0
Nitrate as N		2.9		0.20	mg/L	300.0
Sulfate		690		20	mg/L	300.0
Alkalinity		150		5.0	mg/L	SM 2320B
TOC Result 1		5.7		1.0	mg/L	SM 5310C
TOC Result 2		5.7		1.0	mg/L	SM 5310C
TOC Dup		5.7		1.0	mg/L	SM 5310C

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B
Metals (ICP)	TAL CHI	SW846 6010B	
Preparation, Total Metals	TAL CHI		SW846 3010A
Mercury (CVAA)	TAL CHI	SW846 7470A	
Preparation, Mercury	TAL CHI		SW846 7470A
Anions, Ion Chromatography	TAL CHI	MCAWW 300.0	
Alkalinity	TAL CHI	SM SM 2320B	
TOC	TAL CHI	SM SM 5310C	
Dissolved Gases (GC)	TAL BUR	RSK RSK-175	

Lab References:

TAL BUR = TestAmerica Burlington

TAL CHI = TestAmerica Chicago

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Method	Analyst	Analyst ID
SW846 8260B	Alikpala, Elaine	EA
RSK RSK-175	Sheldon, Travis F	TFS
SW846 6010B	Jones, Paul	PJ
SW846 7470A	Bills, Brandon J	BJB
MCAWW 300.0	Moore, Colleen L	CLM
SM SM 2320B	Moore, Colleen L	CLM
SM SM 5310C	Deb, Khona	KD

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-6**

Lab Sample ID: 500-53164-1

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-172880	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53164-01.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1835			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1835				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.74	U	0.74	5.0
trans-1,2-Dichloroethene	280		2.5	10
Ethylbenzene	1.3	U	1.3	5.0
Trichloroethene	170		1.9	5.0
Tetrachloroethene	1.7	U	1.7	10
Toluene	2.0	J	1.1	5.0
Xylenes, Total	0.68	U	0.68	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 125
Toluene-d8 (Surr)	99		75 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	96		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-6**

Lab Sample ID: 500-53164-1

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-172880	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53164-01A.D
Dilution:	100			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1902	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1902				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	14000		12	100
Vinyl chloride	4400		10	50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		75 - 125
Toluene-d8 (Surr)	97		75 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	97		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-6A**

Lab Sample ID: 500-53164-2

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-172880	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53164-02.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1928			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1928				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.5	U	1.5	10
trans-1,2-Dichloroethene	270		5.0	20
Ethylbenzene	2.6	U	2.6	10
Trichloroethene	160		3.8	10
Tetrachloroethene	3.4	U	3.4	20
Toluene	2.2	U	2.2	10
Vinyl chloride	3800		2.0	10
Xylenes, Total	1.4	U	1.4	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 125
Toluene-d8 (Surr)	98		75 - 120
4-Bromofluorobenzene (Surr)	93		75 - 120
Dibromofluoromethane	98		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-6A**

Lab Sample ID: 500-53164-2

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-172880	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53164-02A.D
Dilution:	200			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1954	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	12000		24	200

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
Toluene-d8 (Surr)	100		75 - 120
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane	99		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-7**

Lab Sample ID: 500-53164-3

Client Matrix: Water

Date Sampled: 12/11/2012 1130

Date Received: 12/12/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-172880	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53164-03.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1717			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1717				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
cis-1,2-Dichloroethene	1.3		0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	0.19	U	0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	0.10	U	0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		75 - 125
Toluene-d8 (Surr)	98		75 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	94		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-5**

Lab Sample ID: 500-53164-4

Client Matrix: Water

Date Sampled: 12/11/2012 1223

Date Received: 12/12/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-172880	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53164-04.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1743			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1743				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
cis-1,2-Dichloroethene	0.63	J	0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	0.19	U	0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	0.10	U	0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 125
Toluene-d8 (Surr)	98		75 - 120
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane	99		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-2**

Lab Sample ID: 500-53164-5

Client Matrix: Water

Date Sampled: 12/11/2012 1420

Date Received: 12/12/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-172880	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53164-05.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1809			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1809				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
cis-1,2-Dichloroethene	0.12	U	0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	0.56		0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	0.10	U	0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 125
Toluene-d8 (Surr)	97		75 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	96		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 500-53164-6

Client Matrix: Water

Date Sampled: 12/11/2012 0000

Date Received: 12/12/2012 1020

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	500-172880	Instrument ID:	CMS22
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	53164-06.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1350			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1350				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
cis-1,2-Dichloroethene	0.12	U	0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	0.19	U	0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	0.10	U	0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		75 - 125
Toluene-d8 (Surr)	99		75 - 120
4-Bromofluorobenzene (Surr)	95		75 - 120
Dibromofluoromethane	94		75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-6**

Lab Sample ID: 500-53164-1

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	12/17/2012 1617			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	50		0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	37		0.73	3.0

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-6A**

Lab Sample ID: 500-53164-2

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	12/18/2012 0909			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	47		0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	36		0.73	3.0

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-7**

Lab Sample ID: 500-53164-3

Client Matrix: Water

Date Sampled: 12/11/2012 1130

Date Received: 12/12/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	12/17/2012 1628			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	1.4	J	0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	0.73	U	0.73	3.0

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-5**

Lab Sample ID: 500-53164-4

Client Matrix: Water

Date Sampled: 12/11/2012 1223

Date Received: 12/12/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	12/17/2012 1643			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	0.45	U	0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	0.73	U	0.73	3.0

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-2**

Lab Sample ID: 500-53164-5

Client Matrix: Water

Date Sampled: 12/11/2012 1420

Date Received: 12/12/2012 1020

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	200-49681	Instrument ID:	2866.i
	N/A		N/A	Initial Weight/Volume:	18 mL
Dilution:	1.0			Final Weight/Volume:	18 mL
Analysis Date:	12/17/2012 1648			Injection Volume:	
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	13		0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	0.73	U	0.73	3.0

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-6**

Lab Sample ID: 500-53164-1

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-172956	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1643			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0048	J	0.0024	0.010
Barium	0.076		0.00044	0.010
Cadmium	0.00078	J	0.00054	0.0020
Chromium	0.0014	J	0.00096	0.010
Lead	0.0016	U	0.0016	0.0050
Selenium	0.0047	J	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173014	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 0949			Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.071	U	0.071	0.20

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-6A**

Lab Sample ID: 500-53164-2

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-172956	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1647			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0061	J	0.0024	0.010
Barium	0.071		0.00044	0.010
Cadmium	0.00054	U	0.00054	0.0020
Chromium	0.00096	U	0.00096	0.010
Lead	0.0016	U	0.0016	0.0050
Selenium	0.0027	U	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173014	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 0951			Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.071	J	0.071	0.20

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-7**

Lab Sample ID: 500-53164-3

Client Matrix: Water

Date Sampled: 12/11/2012 1130

Date Received: 12/12/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-172956	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1651			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.056		0.00044	0.010
Cadmium	0.00080	J	0.00054	0.0020
Chromium	0.00096	U	0.00096	0.010
Lead	0.0016	U	0.0016	0.0050
Selenium	0.0027	U	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173014	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 0952			Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.071	U	0.071	0.20

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-5**

Lab Sample ID: 500-53164-4

Client Matrix: Water

Date Sampled: 12/11/2012 1223

Date Received: 12/12/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-172956	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1723			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.11		0.00044	0.010
Cadmium	0.0010	J	0.00054	0.0020
Chromium	0.0011	J	0.00096	0.010
Lead	0.0044	J	0.0016	0.0050
Selenium	0.0033	J	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173014	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 1004			Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.071	U	0.071	0.20

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Client Sample ID: **VLF-MW-2**

Lab Sample ID: 500-53164-5

Client Matrix: Water

Date Sampled: 12/11/2012 1420

Date Received: 12/12/2012 1020

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	500-172956	Instrument ID:	ICP6
Prep Method:	3010A	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1727			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.039		0.00044	0.010
Cadmium	0.0011	J	0.00054	0.0020
Chromium	0.00096	U	0.00096	0.010
Lead	0.012		0.0016	0.0050
Selenium	0.0027	U	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	500-173014	Instrument ID:	HG6
Prep Method:	7470A	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 1007			Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.10	J	0.071	0.20

General Chemistry

Client Sample ID: **VLF-MW-6**

Lab Sample ID: 500-53164-1

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	83		mg/L	0.92	4.0	20	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2109						
Nitrate as N	0.028	U	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1004						
Nitrite as N	0.028	U	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1004						
Sulfate	180		mg/L	1.6	4.0	20	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2109						
Alkalinity	410		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/17/2012 2348						
TOC Result 1	4.0		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1501						
TOC Result 2	3.8		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1501						
TOC Dup	3.9		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1501						

General Chemistry

Client Sample ID: **VLF-MW-6A**

Lab Sample ID: 500-53164-2

Client Matrix: Water

Date Sampled: 12/11/2012 1011

Date Received: 12/12/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	89		mg/L	1.2	5.0	25	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2122						
Nitrate as N	0.028	U H	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1030						
Nitrite as N	0.028	U H	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1030						
Sulfate	230		mg/L	2.0	5.0	25	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2122						
Alkalinity	410		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/17/2012 2354						
TOC Result 1	3.8		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1526						
TOC Result 2	3.8		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1526						
TOC Dup	3.8		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1526						

General Chemistry

Client Sample ID: **VLF-MW-7**

Lab Sample ID: 500-53164-3

Client Matrix: Water

Date Sampled: 12/11/2012 1130

Date Received: 12/12/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	35		mg/L	0.46	2.0	10	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1137						
Nitrate as N	0.21		mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1123						
Nitrite as N	0.028	U	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1123						
Sulfate	550		mg/L	7.8	20	100	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2135						
Alkalinity	350		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/17/2012 2359						
TOC Result 1	2.9		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1615						
TOC Result 2	3.0		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1615						
TOC Dup	2.9		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1615						

General Chemistry

Client Sample ID: **VLF-MW-5**

Lab Sample ID: 500-53164-4

Client Matrix: Water

Date Sampled: 12/11/2012 1223

Date Received: 12/12/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	17		mg/L	0.46	2.0	10	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1323						
Nitrate as N	0.028	U H	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1310						
Nitrite as N	0.028	U H	mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1310						
Sulfate	280		mg/L	3.9	10	50	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2149						
Alkalinity	400		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/18/2012 0011						
TOC Result 1	1.7		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1708						
TOC Result 2	1.7		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1708						
TOC Dup	1.7		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1708						

General Chemistry

Client Sample ID: **VLF-MW-2**

Lab Sample ID: 500-53164-5

Client Matrix: Water

Date Sampled: 12/11/2012 1420

Date Received: 12/12/2012 1020

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	390		mg/L	4.6	20	100	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2202						
Nitrate as N	2.9		mg/L	0.028	0.20	1.0	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1416						
Nitrite as N	0.28	U H	mg/L	0.28	2.0	10	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 1430						
Sulfate	690		mg/L	7.8	20	100	300.0
Analysis Batch: 500-173019	Analysis Date: 12/13/2012 2202						
Alkalinity	150		mg/L	1.2	5.0	1.0	SM 2320B
Analysis Batch: 500-173256	Analysis Date: 12/18/2012 0031						
TOC Result 1	5.7		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1735						
TOC Result 2	5.7		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1735						
TOC Dup	5.7		mg/L	0.38	1.0	1.0	SM 5310C
Analysis Batch: 500-173374	Analysis Date: 12/18/2012 1735						

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
500-53164-1	VLF-MW-6	96	95	99	92
500-53164-1 DL	VLF-MW-6 DL	97	92	97	92
500-53164-2	VLF-MW-6A	98	95	98	93
500-53164-2 DL	VLF-MW-6A DL	99	97	100	94
500-53164-3	VLF-MW-7	94	92	98	92
500-53164-4	VLF-MW-5	99	94	98	94
500-53164-5	VLF-MW-2	96	94	97	92
500-53164-6	TRIP BLANK	94	88	99	95
MB 500-172880/6		90	88	93	88
LCS 500-172880/4		97	96	99	100
500-53164-3 MS	VLF-MW-7 MS	95	93	97	96
500-53164-3 MSD	VLF-MW-7 MSD	93	91	95	95

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-125
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Method Blank - Batch: 500-172880

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 500-172880/6	Analysis Batch:	500-172880	Instrument ID:	CMS22
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	22M1213.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1324	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1324				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Benzene	0.074	U	0.074	0.50
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
cis-1,2-Dichloroethene	0.12	U	0.12	1.0
Ethylbenzene	0.13	U	0.13	0.50
Trichloroethene	0.19	U	0.19	0.50
Tetrachloroethene	0.17	U	0.17	1.0
Toluene	0.11	U	0.11	0.50
Vinyl chloride	0.10	U	0.10	0.50
Xylenes, Total	0.068	U	0.068	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	75 - 125
Toluene-d8 (Surr)	93	75 - 120
4-Bromofluorobenzene (Surr)	88	75 - 120
Dibromofluoromethane	90	75 - 120

Lab Control Sample - Batch: 500-172880

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 500-172880/4	Analysis Batch:	500-172880	Instrument ID:	CMS22
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	22S1213.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1232	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1232				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	50.2	100	70 - 120	
trans-1,2-Dichloroethene	50.0	52.1	104	70 - 124	
cis-1,2-Dichloroethene	50.0	51.0	102	70 - 120	
Ethylbenzene	50.0	53.3	107	75 - 120	
Trichloroethene	50.0	51.0	102	70 - 120	
Tetrachloroethene	50.0	53.1	106	70 - 123	
Toluene	50.0	50.1	100	70 - 120	
Vinyl chloride	50.0	47.8	96	62 - 138	
Xylenes, Total	150	153	102	70 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	75 - 125
Toluene-d8 (Surr)	99	75 - 120
4-Bromofluorobenzene (Surr)	100	75 - 120
Dibromofluoromethane	97	75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-172880

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	500-53164-3	Analysis Batch:	500-172880	Instrument ID:	CMS22
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	53164-03S.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 2112			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 2112				
Leach Date:	N/A				

MSD Lab Sample ID:	500-53164-3	Analysis Batch:	500-172880	Instrument ID:	CMS22
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	53164-03T.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 2138			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 2138				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	97	99	70 - 120	2	20		
trans-1,2-Dichloroethene	102	105	70 - 124	3	20		
cis-1,2-Dichloroethene	101	102	70 - 120	1	20		
Ethylbenzene	102	102	75 - 120	0	20		
Trichloroethene	99	100	70 - 120	1	20		
Tetrachloroethene	101	102	70 - 123	1	20		
Toluene	98	99	70 - 120	1	20		
Vinyl chloride	96	100	62 - 138	4	20		
Xylenes, Total	99	99	70 - 120	0	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	91	75 - 125
Toluene-d8 (Surr)	97	95	75 - 120
4-Bromofluorobenzene (Surr)	96	95	75 - 120
Dibromofluoromethane	95	93	75 - 120

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-172880

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	500-53164-3	Units:	ug/L	MSD Lab Sample ID:	500-53164-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 2112			Analysis Date:	12/13/2012 2138
Prep Date:	12/13/2012 2112			Prep Date:	12/13/2012 2138
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.074	U	50.0	50.0	48.7	49.7
trans-1,2-Dichloroethene	0.25	U	50.0	50.0	50.9	52.6
cis-1,2-Dichloroethene	1.3		50.0	50.0	51.6	52.1
Ethylbenzene	0.13	U	50.0	50.0	51.0	51.2
Trichloroethene	0.19	U	50.0	50.0	49.7	50.0
Tetrachloroethene	0.17	U	50.0	50.0	50.6	51.0
Toluene	0.11	U	50.0	50.0	48.9	49.4
Vinyl chloride	0.10	U	50.0	50.0	47.9	50.0
Xylenes, Total	0.068	U	150	150	148	148

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Method Blank - Batch: 200-49681

Method: RSK-175
Preparation: N/A

Lab Sample ID:	MB 200-49681/36	Analysis Batch:	200-49681	Instrument ID:	2866.i
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	17dec121442-r021.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	12/17/2012 1503	Units:	ug/L	Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Methane	0.45	U	0.45	2.0
Ethane	0.81	U	0.81	4.0
Ethylene	0.73	U	0.73	3.0

Lab Control Sample - Batch: 200-49681

Method: RSK-175
Preparation: N/A

Lab Sample ID:	LCS 200-49681/35	Analysis Batch:	200-49681	Instrument ID:	2866.i
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	17dec121442-r011.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	12/17/2012 1448	Units:	ug/L	Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methane	72.4	66.0	91	70 - 130	
Ethane	137	124	90	70 - 130	
Ethylene	128	120	93	70 - 130	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-49681

Method: RSK-175
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Analysis Batch:	200-49681	Instrument ID:	2866.i
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	17dec121527-r091.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	12/17/2012 1633			Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	500-53164-3	Analysis Batch:	200-49681	Instrument ID:	2866.i
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	17dec121527-r101.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	12/17/2012 1638			Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Methane	94	86	70 - 130	9	30		
Ethane	101	92	70 - 130	9	30		
Ethylene	104	94	70 - 130	10	30		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-49681

Method: RSK-175
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Units:	ug/L	MSD Lab Sample ID:	500-53164-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/17/2012 1633			Analysis Date:	12/17/2012 1638
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Methane	1.4	J	72.4	72.4	69.5	63.5
Ethane	0.81	U	137	137	139	126
Ethylene	0.73	U	128	128	133	121

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Method Blank - Batch: 500-172801

Method: 6010B
Preparation: 3010A

Lab Sample ID:	MB 500-172801/1-A	Analysis Batch:	500-172956	Instrument ID:	ICP6
Client Matrix:	Water	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1635	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	0.0024	U	0.0024	0.010
Barium	0.00044	U	0.00044	0.010
Cadmium	0.00054	U	0.00054	0.0020
Chromium	0.00096	U	0.00096	0.010
Lead	0.0016	U	0.0016	0.0050
Selenium	0.0027	U	0.0027	0.010
Silver	0.0011	U	0.0011	0.0050

Lab Control Sample - Batch: 500-172801

Method: 6010B
Preparation: 3010A

Lab Sample ID:	LCS 500-172801/2-A	Analysis Batch:	500-172956	Instrument ID:	ICP6
Client Matrix:	Water	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1639	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.100	0.0909	91	80 - 120	
Barium	2.00	1.93	96	80 - 120	
Cadmium	0.0500	0.0456	91	80 - 120	
Chromium	0.200	0.187	93	80 - 120	
Lead	0.100	0.0963	96	80 - 120	
Selenium	0.100	0.0855	86	80 - 120	
Silver	0.0500	0.0456	91	80 - 120	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-172801

Method: 6010B
Preparation: 3010A

MS Lab Sample ID:	500-53164-3	Analysis Batch:	500-172956	Instrument ID:	ICP6
Client Matrix:	Water	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1705			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				
Leach Date:	N/A				

MSD Lab Sample ID:	500-53164-3	Analysis Batch:	500-172956	Instrument ID:	ICP6
Client Matrix:	Water	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1710			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	95	100	75 - 125	6	20		
Barium	95	97	75 - 125	2	20		
Cadmium	93	95	75 - 125	2	20		
Chromium	93	93	75 - 125	1	20		
Lead	97	102	75 - 125	5	20		
Selenium	91	92	75 - 125	0	20		
Silver	95	96	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-172801

Method: 6010B
Preparation: 3010A

MS Lab Sample ID:	500-53164-3	Units:	mg/L	MSD Lab Sample ID:	500-53164-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 1705			Analysis Date:	12/13/2012 1710
Prep Date:	12/12/2012 1500			Prep Date:	12/12/2012 1500
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Arsenic	0.0024	U	0.100	0.100	0.0945	0.100
Barium	0.056		2.00	2.00	1.95	1.99
Cadmium	0.00080	J	0.0500	0.0500	0.0471	0.0482
Chromium	0.00096	U	0.200	0.200	0.185	0.187
Lead	0.0016	U	0.100	0.100	0.0968	0.102
Selenium	0.0027	U	0.100	0.100	0.0914	0.0917
Silver	0.0011	U	0.0500	0.0500	0.0473	0.0479

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Serial Dilution - Batch: 500-172801

Method: 6010B
Preparation: 3010A

Lab Sample ID:	500-53164-3	Analysis Batch:	500-172956	Instrument ID:	ICP6
Client Matrix:	Water	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1656	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Arsenic	0.0024	U	0.012	NC	10	U
Barium	0.056		0.0548	2.0	10	
Cadmium	0.00080	J	0.0027	NC	10	U
Chromium	0.00096	U	0.0048	NC	10	U
Lead	0.0016	U	0.0079	NC	10	U
Selenium	0.0027	U	0.013	NC	10	U
Silver	0.0011	U	0.0055	NC	10	U

Duplicate - Batch: 500-172801

Method: 6010B
Preparation: 3010A

Lab Sample ID:	500-53164-3	Analysis Batch:	500-172956	Instrument ID:	ICP6
Client Matrix:	Water	Prep Batch:	500-172801	Lab File ID:	P6121312A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1700	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	0.0024	U	0.0024	NC	20	U
Barium	0.056		0.0547	2	20	
Cadmium	0.00080	J	0.000651	21	20	J
Chromium	0.00096	U	0.00096	NC	20	U
Lead	0.0016	U	0.0016	NC	20	U
Selenium	0.0027	U	0.0027	NC	20	U
Silver	0.0011	U	0.0011	NC	20	U

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Method Blank - Batch: 500-172866

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 500-172866/7-A	Analysis Batch:	500-173014	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 0942	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.071	U	0.071	0.20

Lab Control Sample - Batch: 500-172866

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 500-172866/8-A	Analysis Batch:	500-173014	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 0944	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.00	2.08	104	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-172866

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	500-53164-3	Analysis Batch:	500-173014	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 1000			Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				
Leach Date:	N/A				

MSD Lab Sample ID:	500-53164-3	Analysis Batch:	500-173014	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 1002			Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	80	75	75 - 125	7	20		

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-172866

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	500-53164-3	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/14/2012 1000		
Prep Date:	12/13/2012 1100		
Leach Date:	N/A		

MSD Lab Sample ID:	500-53164-3
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/14/2012 1002
Prep Date:	12/13/2012 1100
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.071	U	1.00	1.00	0.804	0.748

Duplicate - Batch: 500-172866

Method: 7470A
Preparation: 7470A

Lab Sample ID:	500-53164-3	Analysis Batch:	500-173014	Instrument ID:	HG6
Client Matrix:	Water	Prep Batch:	500-172866	Lab File ID:	121412RA.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/14/2012 0958	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/13/2012 1100				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.071	U	0.071	NC	20	U

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Method Blank - Batch: 500-173019

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 500-173019/34	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00019.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2012 1336	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride	0.046	U	0.046	0.20
Nitrate as N	0.028	U	0.028	0.20
Nitrite as N	0.028	U	0.028	0.20
Sulfate	0.078	U	0.078	0.20

Lab Control Sample - Batch: 500-173019

Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 500-173019/45	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00030.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2012 1603	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	3.00	2.90	97	90 - 110	
Nitrate as N	2.00	1.96	98	90 - 110	
Nitrite as N	2.00	1.85	92	90 - 110	
Sulfate	5.00	5.40	108	90 - 110	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-173019

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00068.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 0028			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	500-53164-3	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00071.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 0108			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate as N	100	98	75 - 125	2	20	H	H
Nitrite as N	91	91	75 - 125	0	20	H	H

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-173019

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00069.txt
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 0042			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	500-53164-3	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00072.txt
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 0121			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	102	101	75 - 125	1	20		

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-173019

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00070.txt
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 0055			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	500-53164-3	Analysis Batch:	500-173019	Instrument ID:	IC5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	00075.txt
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 0201			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	112	108	75 - 125	2	20		

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-173019

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Units:	mg/L	MSD Lab Sample ID:	500-53164-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 0028			Analysis Date:	12/14/2012 0108
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Nitrate as N	0.21		2.00	2.00	2.21	H	2.16	H
Nitrite as N	0.028	U	2.00	2.00	1.82	H	1.82	H

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-173019

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Units:	mg/L	MSD Lab Sample ID:	500-53164-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	10			Dilution:	10
Analysis Date:	12/14/2012 0042			Analysis Date:	12/14/2012 0121
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	35	30.0	30.0	65.9	65.5

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-173019

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Units:	mg/L	MSD Lab Sample ID:	500-53164-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	100			Dilution:	100
Analysis Date:	12/14/2012 0055			Analysis Date:	12/14/2012 0201
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	550	500	500	1110	1090

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Method Blank - Batch: 500-173256

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 500-173256/28	Analysis Batch:	500-173256	Instrument ID:	PC-Titrate
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 2224	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity	1.2	U	1.2	5.0

Lab Control Sample - Batch: 500-173256

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 500-173256/29	Analysis Batch:	500-173256	Instrument ID:	PC-Titrate
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2012 2230	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	100	104	104	80 - 120	

Duplicate - Batch: 500-173256

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	500-53164-3	Analysis Batch:	500-173256	Instrument ID:	PC-Titrate
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/18/2012 0006	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity	350	355	1	20	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Method Blank - Batch: 500-173374

Method: SM 5310C
Preparation: N/A

Lab Sample ID:	MB 500-173374/3	Analysis Batch:	500-173374	Instrument ID:	TOC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/18/2012 1102	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
TOC Result 1	0.38	U	0.38	1.0
TOC Result 2	0.38	U	0.38	1.0
TOC Dup	0.38	U	0.38	1.0

Lab Control Sample - Batch: 500-173374

Method: SM 5310C
Preparation: N/A

Lab Sample ID:	LCS 500-173374/4	Analysis Batch:	500-173374	Instrument ID:	TOC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	12/18/2012 1125	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
TOC Result 1	10.0	9.49	95	80 - 120	
TOC Result 2	10.0	9.49	95	80 - 120	
TOC Dup	10.0	9.49	95	80 - 120	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-173374

Method: SM 5310C
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Analysis Batch:	500-173374	Instrument ID:	TOC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/18/2012 1642			Final Weight/Volume:	40 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	500-53164-3	Analysis Batch:	500-173374	Instrument ID:	TOC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/18/2012 1656			Final Weight/Volume:	40 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
TOC Result 1	109	109	75 - 125	0	20		
TOC Result 2	109	109	75 - 125	0	20		
TOC Dup	109	109	75 - 125	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-173374

Method: SM 5310C
Preparation: N/A

MS Lab Sample ID:	500-53164-3	Units:	mg/L	MSD Lab Sample ID:	500-53164-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/18/2012 1642			Analysis Date:	12/18/2012 1656
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
TOC Result 1	2.9	10.0	10.0	13.8	13.8
TOC Result 2	3.0	10.0	10.0	13.8	13.8
TOC Dup	2.9	10.0	10.0	13.8	13.8

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.
	H	Sample was prepped or analyzed beyond the specified holding time

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-172880					
LCS 500-172880/4	Lab Control Sample	T	Water	8260B	
MB 500-172880/6	Method Blank	T	Water	8260B	
500-53164-1	VLF-MW-6	T	Water	8260B	
500-53164-1DL	VLF-MW-6	T	Water	8260B	
500-53164-2	VLF-MW-6A	T	Water	8260B	
500-53164-2DL	VLF-MW-6A	T	Water	8260B	
500-53164-3	VLF-MW-7	T	Water	8260B	
500-53164-3MS	Matrix Spike	T	Water	8260B	
500-53164-3MSD	Matrix Spike Duplicate	T	Water	8260B	
500-53164-4	VLF-MW-5	T	Water	8260B	
500-53164-5	VLF-MW-2	T	Water	8260B	
500-53164-6	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

GC VOA					
Analysis Batch:200-49681					
LCS 200-49681/35	Lab Control Sample	T	Water	RSK-175	
MB 200-49681/36	Method Blank	T	Water	RSK-175	
500-53164-1	VLF-MW-6	T	Water	RSK-175	
500-53164-2	VLF-MW-6A	T	Water	RSK-175	
500-53164-3	VLF-MW-7	T	Water	RSK-175	
500-53164-3MS	Matrix Spike	T	Water	RSK-175	
500-53164-3MSD	Matrix Spike Duplicate	T	Water	RSK-175	
500-53164-4	VLF-MW-5	T	Water	RSK-175	
500-53164-5	VLF-MW-2	T	Water	RSK-175	

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 500-172801					
LCS 500-172801/2-A	Lab Control Sample	T	Water	3010A	
MB 500-172801/1-A	Method Blank	T	Water	3010A	
500-53164-1	VLF-MW-6	T	Water	3010A	
500-53164-2	VLF-MW-6A	T	Water	3010A	
500-53164-3	VLF-MW-7	T	Water	3010A	
500-53164-3DU	Duplicate	T	Water	3010A	
500-53164-3MS	Matrix Spike	T	Water	3010A	
500-53164-3MSD	Matrix Spike Duplicate	T	Water	3010A	
500-53164-4	VLF-MW-5	T	Water	3010A	
500-53164-5	VLF-MW-2	T	Water	3010A	
Prep Batch: 500-172866					
LCS 500-172866/8-A	Lab Control Sample	T	Water	7470A	
MB 500-172866/7-A	Method Blank	T	Water	7470A	
500-53164-1	VLF-MW-6	T	Water	7470A	
500-53164-2	VLF-MW-6A	T	Water	7470A	
500-53164-3	VLF-MW-7	T	Water	7470A	
500-53164-3DU	Duplicate	T	Water	7470A	
500-53164-3MS	Matrix Spike	T	Water	7470A	
500-53164-3MSD	Matrix Spike Duplicate	T	Water	7470A	
500-53164-4	VLF-MW-5	T	Water	7470A	
500-53164-5	VLF-MW-2	T	Water	7470A	
Analysis Batch:500-172956					
LCS 500-172801/2-A	Lab Control Sample	T	Water	6010B	500-172801
MB 500-172801/1-A	Method Blank	T	Water	6010B	500-172801
500-53164-1	VLF-MW-6	T	Water	6010B	500-172801
500-53164-2	VLF-MW-6A	T	Water	6010B	500-172801
500-53164-3	VLF-MW-7	T	Water	6010B	500-172801
500-53164-3DU	Duplicate	T	Water	6010B	500-172801
500-53164-3MS	Matrix Spike	T	Water	6010B	500-172801
500-53164-3MSD	Matrix Spike Duplicate	T	Water	6010B	500-172801
500-53164-4	VLF-MW-5	T	Water	6010B	500-172801
500-53164-5	VLF-MW-2	T	Water	6010B	500-172801

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:500-173014					
LCS 500-172866/8-A	Lab Control Sample	T	Water	7470A	500-172866
MB 500-172866/7-A	Method Blank	T	Water	7470A	500-172866
500-53164-1	VLF-MW-6	T	Water	7470A	500-172866
500-53164-2	VLF-MW-6A	T	Water	7470A	500-172866
500-53164-3	VLF-MW-7	T	Water	7470A	500-172866
500-53164-3DU	Duplicate	T	Water	7470A	500-172866
500-53164-3MS	Matrix Spike	T	Water	7470A	500-172866
500-53164-3MSD	Matrix Spike Duplicate	T	Water	7470A	500-172866
500-53164-4	VLF-MW-5	T	Water	7470A	500-172866
500-53164-5	VLF-MW-2	T	Water	7470A	500-172866

Report Basis

T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-173019					
LCS 500-173019/45	Lab Control Sample	T	Water	300.0	
MB 500-173019/34	Method Blank	T	Water	300.0	
500-53164-1	VLF-MW-6	T	Water	300.0	
500-53164-2	VLF-MW-6A	T	Water	300.0	
500-53164-3	VLF-MW-7	T	Water	300.0	
500-53164-3MS	Matrix Spike	T	Water	300.0	
500-53164-3MSD	Matrix Spike Duplicate	T	Water	300.0	
500-53164-4	VLF-MW-5	T	Water	300.0	
500-53164-5	VLF-MW-2	T	Water	300.0	
Analysis Batch:500-173256					
LCS 500-173256/29	Lab Control Sample	T	Water	SM 2320B	
MB 500-173256/28	Method Blank	T	Water	SM 2320B	
500-53164-1	VLF-MW-6	T	Water	SM 2320B	
500-53164-2	VLF-MW-6A	T	Water	SM 2320B	
500-53164-3	VLF-MW-7	T	Water	SM 2320B	
500-53164-3DU	Duplicate	T	Water	SM 2320B	
500-53164-4	VLF-MW-5	T	Water	SM 2320B	
500-53164-5	VLF-MW-2	T	Water	SM 2320B	
Analysis Batch:500-173374					
LCS 500-173374/4	Lab Control Sample	T	Water	SM 5310C	
MB 500-173374/3	Method Blank	T	Water	SM 5310C	
500-53164-1	VLF-MW-6	T	Water	SM 5310C	
500-53164-2	VLF-MW-6A	T	Water	SM 5310C	
500-53164-3	VLF-MW-7	T	Water	SM 5310C	
500-53164-3MS	Matrix Spike	T	Water	SM 5310C	
500-53164-3MSD	Matrix Spike Duplicate	T	Water	SM 5310C	
500-53164-4	VLF-MW-5	T	Water	SM 5310C	
500-53164-5	VLF-MW-2	T	Water	SM 5310C	

Report Basis

T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Laboratory Chronicle

Lab ID: **500-53164-1** **Client ID:** **VLF-MW-6**

Sample Date/Time: 12/11/2012 10:11 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53164-F-1		500-172880		12/13/2012 18:35	10	TAL CHI	EA
A:8260B	500-53164-F-1		500-172880		12/13/2012 18:35	10	TAL CHI	EA
P:5030B	500-53164-F-1	DL	500-172880		12/13/2012 19:02	100	TAL CHI	EA
A:8260B	500-53164-F-1	DL	500-172880		12/13/2012 19:02	100	TAL CHI	EA
A:RSK-175	500-53164-A-1		200-49681		12/17/2012 16:17	1	TAL BUR	TFS
P:3010A	500-53164-J-1-A		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	500-53164-J-1-A		500-172956	500-172801	12/13/2012 16:43	1	TAL CHI	PJ
P:7470A	500-53164-J-1-B		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	500-53164-J-1-B		500-173014	500-172866	12/14/2012 09:49	1	TAL CHI	BJB
A:300.0	500-53164-A-1		500-173019		12/13/2012 10:04	1	TAL CHI	CLM
A:300.0	500-53164-A-1		500-173019		12/13/2012 21:09	20	TAL CHI	CLM
A:SM 2320B	500-53164-I-1		500-173256		12/17/2012 23:48	1	TAL CHI	CLM
A:SM 5310C	500-53164-D-1		500-173374		12/18/2012 15:01	1	TAL CHI	KD

Lab ID: **500-53164-2** **Client ID:** **VLF-MW-6A**

Sample Date/Time: 12/11/2012 10:11 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53164-G-2		500-172880		12/13/2012 19:28	20	TAL CHI	EA
A:8260B	500-53164-G-2		500-172880		12/13/2012 19:28	20	TAL CHI	EA
P:5030B	500-53164-G-2	DL	500-172880		12/13/2012 19:54	200	TAL CHI	EA
A:8260B	500-53164-G-2	DL	500-172880		12/13/2012 19:54	200	TAL CHI	EA
A:RSK-175	500-53164-E-2		200-49681		12/18/2012 09:09	1	TAL BUR	TFS
P:3010A	500-53164-J-2-A		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	500-53164-J-2-A		500-172956	500-172801	12/13/2012 16:47	1	TAL CHI	PJ
P:7470A	500-53164-J-2-B		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	500-53164-J-2-B		500-173014	500-172866	12/14/2012 09:51	1	TAL CHI	BJB
A:300.0	500-53164-A-2		500-173019		12/13/2012 10:30	1	TAL CHI	CLM
A:300.0	500-53164-A-2		500-173019		12/13/2012 21:22	25	TAL CHI	CLM
A:SM 2320B	500-53164-I-2		500-173256		12/17/2012 23:54	1	TAL CHI	CLM
A:SM 5310C	500-53164-F-2		500-173374		12/18/2012 15:26	1	TAL CHI	KD

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Laboratory Chronicle

Lab ID: **500-53164-3** **Client ID:** **VLF-MW-7**

Sample Date/Time: 12/11/2012 11:30 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53164-F-3		500-172880		12/13/2012 17:17	1	TAL CHI	EA
A:8260B	500-53164-F-3		500-172880		12/13/2012 17:17	1	TAL CHI	EA
A:RSK-175	500-53164-A-3		200-49681		12/17/2012 16:28	1	TAL BUR	TFS
P:3010A	500-53164-J-3-A		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	500-53164-J-3-A		500-172956	500-172801	12/13/2012 16:51	1	TAL CHI	PJ
P:7470A	500-53164-J-3-E		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	500-53164-J-3-E		500-173014	500-172866	12/14/2012 09:52	1	TAL CHI	BJB
A:300.0	500-53164-A-3		500-173019		12/13/2012 11:23	1	TAL CHI	CLM
A:300.0	500-53164-A-3		500-173019		12/13/2012 11:37	10	TAL CHI	CLM
A:300.0	500-53164-A-3		500-173019		12/13/2012 21:35	100	TAL CHI	CLM
A:SM 2320B	500-53164-I-3		500-173256		12/17/2012 23:59	1	TAL CHI	CLM
A:SM 5310C	500-53164-D-3		500-173374		12/18/2012 16:15	1	TAL CHI	KD

Lab ID: **500-53164-3** **Client ID:** **VLF-MW-7**

Sample Date/Time: 12/11/2012 11:30 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53164-F-3 MS		500-172880		12/13/2012 21:12	1	TAL CHI	EA
A:8260B	500-53164-F-3 MS		500-172880		12/13/2012 21:12	1	TAL CHI	EA
A:RSK-175	500-53164-A-3 MS		200-49681		12/17/2012 16:33	1	TAL BUR	TFS
P:3010A	500-53164-J-3-C MS		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	500-53164-J-3-C MS		500-172956	500-172801	12/13/2012 17:05	1	TAL CHI	PJ
P:7470A	500-53164-J-3-G MS		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	500-53164-J-3-G MS		500-173014	500-172866	12/14/2012 10:00	1	TAL CHI	BJB
A:300.0	500-53164-A-3 MS		500-173019		12/14/2012 00:28	1	TAL CHI	CLM
A:300.0	500-53164-A-3 MS		500-173019		12/14/2012 00:42	10	TAL CHI	CLM
A:300.0	500-53164-A-3 MS		500-173019		12/14/2012 00:55	100	TAL CHI	CLM
A:SM 5310C	500-53164-D-3 MS		500-173374		12/18/2012 16:42	1	TAL CHI	KD

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Laboratory Chronicle

Lab ID: 500-53164-3 **Client ID:** VLF-MW-7

Sample Date/Time: 12/11/2012 11:30 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53164-F-3 MSD		500-172880		12/13/2012 21:38	1	TAL CHI	EA
A:8260B	500-53164-F-3 MSD		500-172880		12/13/2012 21:38	1	TAL CHI	EA
A:RSK-175	500-53164-B-3 MSD		200-49681		12/17/2012 16:38	1	TAL BUR	TFS
P:3010A	500-53164-J-3-D MSD		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	500-53164-J-3-D MSD		500-172956	500-172801	12/13/2012 17:10	1	TAL CHI	PJ
P:7470A	500-53164-J-3-H MSD		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	500-53164-J-3-H MSD		500-173014	500-172866	12/14/2012 10:02	1	TAL CHI	BJB
A:300.0	500-53164-A-3 MSD		500-173019		12/14/2012 01:08	1	TAL CHI	CLM
A:300.0	500-53164-A-3 MSD		500-173019		12/14/2012 01:21	10	TAL CHI	CLM
A:300.0	500-53164-A-3 MSD		500-173019		12/14/2012 02:01	100	TAL CHI	CLM
A:SM 5310C	500-53164-D-3 MSD		500-173374		12/18/2012 16:56	1	TAL CHI	KD

Lab ID: 500-53164-3 DU **Client ID:** VLF-MW-7

Sample Date/Time: 12/11/2012 11:30 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	500-53164-J-3-B DU		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	500-53164-J-3-B DU		500-172956	500-172801	12/13/2012 17:00	1	TAL CHI	PJ
P:7470A	500-53164-J-3-F DU		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	500-53164-J-3-F DU		500-173014	500-172866	12/14/2012 09:58	1	TAL CHI	BJB
A:SM 2320B	500-53164-I-3 DU		500-173256		12/18/2012 00:06	1	TAL CHI	CLM

Lab ID: 500-53164-3 SD **Client ID:** VLF-MW-7

Sample Date/Time: 12/11/2012 11:30 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	500-53164-J-3-A SD ^5		500-172956	500-172801	12/12/2012 15:00	5	TAL CHI	RL
A:6010B	500-53164-J-3-A SD ^5		500-172956	500-172801	12/13/2012 16:56	5	TAL CHI	PJ

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Laboratory Chronicle

Lab ID: **500-53164-4** **Client ID:** **VLF-MW-5**

Sample Date/Time: 12/11/2012 12:23 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53164-F-4		500-172880		12/13/2012 17:43	1	TAL CHI	EA
A:8260B	500-53164-F-4		500-172880		12/13/2012 17:43	1	TAL CHI	EA
A:RSK-175	500-53164-A-4		200-49681		12/17/2012 16:43	1	TAL BUR	TFS
P:3010A	500-53164-J-4-A		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	500-53164-J-4-A		500-172956	500-172801	12/13/2012 17:23	1	TAL CHI	PJ
P:7470A	500-53164-J-4-B		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	500-53164-J-4-B		500-173014	500-172866	12/14/2012 10:04	1	TAL CHI	BJB
A:300.0	500-53164-A-4		500-173019		12/13/2012 13:10	1	TAL CHI	CLM
A:300.0	500-53164-A-4		500-173019		12/13/2012 13:23	10	TAL CHI	CLM
A:300.0	500-53164-A-4		500-173019		12/13/2012 21:49	50	TAL CHI	CLM
A:SM 2320B	500-53164-I-4		500-173256		12/18/2012 00:11	1	TAL CHI	CLM
A:SM 5310C	500-53164-D-4		500-173374		12/18/2012 17:08	1	TAL CHI	KD

Lab ID: **500-53164-5** **Client ID:** **VLF-MW-2**

Sample Date/Time: 12/11/2012 14:20 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53164-F-5		500-172880		12/13/2012 18:09	1	TAL CHI	EA
A:8260B	500-53164-F-5		500-172880		12/13/2012 18:09	1	TAL CHI	EA
A:RSK-175	500-53164-A-5		200-49681		12/17/2012 16:48	1	TAL BUR	TFS
P:3010A	500-53164-J-5-A		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	500-53164-J-5-A		500-172956	500-172801	12/13/2012 17:27	1	TAL CHI	PJ
P:7470A	500-53164-J-5-B		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	500-53164-J-5-B		500-173014	500-172866	12/14/2012 10:07	1	TAL CHI	BJB
A:300.0	500-53164-A-5		500-173019		12/13/2012 14:16	1	TAL CHI	CLM
A:300.0	500-53164-A-5		500-173019		12/13/2012 14:30	10	TAL CHI	CLM
A:300.0	500-53164-A-5		500-173019		12/13/2012 22:02	100	TAL CHI	CLM
A:SM 2320B	500-53164-I-5		500-173256		12/18/2012 00:31	1	TAL CHI	CLM
A:SM 5310C	500-53164-D-5		500-173374		12/18/2012 17:35	1	TAL CHI	KD

Lab ID: **500-53164-6** **Client ID:** **TRIP BLANK**

Sample Date/Time: 12/11/2012 00:00 Received Date/Time: 12/12/2012 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	500-53164-G-6		500-172880		12/13/2012 13:50	1	TAL CHI	EA
A:8260B	500-53164-G-6		500-172880		12/13/2012 13:50	1	TAL CHI	EA

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 500-172880/6		500-172880		12/13/2012 13:24	1	TAL CHI	EA
A:8260B	MB 500-172880/6		500-172880		12/13/2012 13:24	1	TAL CHI	EA
A:RSK-175	MB 200-49681/36		200-49681		12/17/2012 15:03	1	TAL BUR	TFS
P:3010A	MB 500-172801/1-A		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	MB 500-172801/1-A		500-172956	500-172801	12/13/2012 16:35	1	TAL CHI	PJ
P:7470A	MB 500-172866/7-A		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	MB 500-172866/7-A		500-173014	500-172866	12/14/2012 09:42	1	TAL CHI	BJB
A:300.0	MB 500-173019/34		500-173019		12/13/2012 13:36	1	TAL CHI	CLM
A:SM 2320B	MB 500-173256/28		500-173256		12/17/2012 22:24	1	TAL CHI	CLM
A:SM 5310C	MB 500-173374/3		500-173374		12/18/2012 11:02	1	TAL CHI	KD

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 500-172880/4		500-172880		12/13/2012 12:32	1	TAL CHI	EA
A:8260B	LCS 500-172880/4		500-172880		12/13/2012 12:32	1	TAL CHI	EA
A:RSK-175	LCS 200-49681/35		200-49681		12/17/2012 14:48	1	TAL BUR	TFS
P:3010A	LCS 500-172801/2-A		500-172956	500-172801	12/12/2012 15:00	1	TAL CHI	RL
A:6010B	LCS 500-172801/2-A		500-172956	500-172801	12/13/2012 16:39	1	TAL CHI	PJ
P:7470A	LCS 500-172866/8-A		500-173014	500-172866	12/13/2012 11:00	1	TAL CHI	CMV
A:7470A	LCS 500-172866/8-A		500-173014	500-172866	12/14/2012 09:44	1	TAL CHI	BJB
A:300.0	LCS 500-173019/45		500-173019		12/13/2012 16:03	1	TAL CHI	CLM
A:SM 2320B	LCS 500-173256/29		500-173256		12/17/2012 22:30	1	TAL CHI	CLM
A:SM 5310C	LCS 500-173374/4		500-173374		12/18/2012 11:25	1	TAL CHI	KD

Lab References:

TAL BUR = TestAmerica Burlington

TAL CHI = TestAmerica Chicago

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 LOW IS_00104	12/14/12	11/30/12	MEOH, Lot DA946	20 mL	8260 IS SK_00027	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Difluorobenzene	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Pentafluorobenzene	50 ug/mL
.8260 IS SK_00027	08/31/14		RESTEK, Lot AO88671		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Difluorobenzene	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Pentafluorobenzene	250 ug/mL
8260 LOW SS_00106	12/14/12	11/30/12	MEOH, Lot DA946	20 mL	8260 SS SK_00032	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 SS SK_00032	07/31/14		RESTEK, Lot A088175		(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
8260 STD WK_00216	12/25/12	12/11/12	METHANOL, Lot NA	2 mL	8260 STD STK_00033	2 mL	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-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-Chlorohexane	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl tert-butyl ether	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
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	300 ug/mL
.8260 STD STK_00033	08/31/14		Restek, Lot A088677		(Purchased Reagent)		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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl tert-butyl ether	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
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	300 ug/mL
ACR/NITRSTDWK_00212	12/18/12	12/11/12	METHANOL, Lot NA	2 mL	ACRNITSTDSK_00034	2 mL	Acetonitrile	800 ug/mL
							Acrolein	4000 ug/mL
							Acrylonitrile	800 ug/mL
							Propionitrile	800 ug/mL
.ACRNITSTDSK_00034	02/28/13	Restek, Lot A091858			(Purchased Reagent)		Acetonitrile	800 ug/mL
							Acrolein	4000 ug/mL
							Acrylonitrile	800 ug/mL
							Propionitrile	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
GAS STD WK RE_00254	12/18/12	12/11/12	METHANOL, Lot NA	2 mL	GAS STD SK_00028	2 mL	Bromomethane	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
.GAS STD SK_00028	08/31/14	RESTEK, Lot A088739			(Purchased Reagent)		Bromomethane	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
GAS/DCFM SPK_00199	12/18/12	12/11/12	MEOH, Lot DG860	2 mL	GAS SPK PT_00025	50 uL	Vinyl chloride	50 ug/mL
.GAS SPK PT_00025	02/16/13	11/16/12	na, Lot na	1 mL	GAS SPK SK_00005	1 mL	Vinyl chloride	2000 ug/mL
..GAS SPK SK_00005	02/13/16	accustandard, Lot 212021011			(Purchased Reagent)		Vinyl chloride	2000 ug/mL
KET/CS2 STDWK_00184	12/25/12	12/11/12	METHANOL, Lot NA	2 mL	KET/CS2 SK_00014	2 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Carbon disulfide	100 ug/mL
.KET/CS2 SK_00014	11/30/13	Restek, Lot A088681			(Purchased Reagent)		2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Carbon disulfide	100 ug/mL
level 1_00011	12/31/16	03/20/12	1, Lot CY647	1 mL	level1std5ppm_00006	100 uL	Benzene	0.5 ug/mL
							Ethylbenzene	0.5 ug/mL
							m-Xylene & p-Xylene	1 ug/mL
							o-Xylene	0.5 ug/mL
							Toluene	0.5 ug/mL
							Trichloroethene	0.5 ug/mL
							Vinyl chloride	0.5 ug/mL
.level1std5ppm_00006	02/28/12	03/22/11	1, Lot CY647	2 mL	level18260wk_00006	100 uL	Benzene	5 ug/mL
							Ethylbenzene	5 ug/mL
							m-Xylene & p-Xylene	10 ug/mL
							o-Xylene	5 ug/mL
							Toluene	5 ug/mL
							Trichloroethene	5 ug/mL
					level1gaswk_00006	100 uL	Vinyl chloride	5 ug/mL
..level18260wk_00006	06/30/12	03/22/11	1, Lot NA	1 mL	level18260sk_00001	1 mL	Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...level18260sk_00001	06/30/12	Restek, Lot AO67921			(Purchased Reagent)		Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL
..level1gaswk_00006	02/28/12	03/22/11	1, Lot CY647	2 mL	level1gaspt_00005	100 uL	Vinyl chloride	100 ug/mL
...level1gaspt_00005	02/28/12	03/22/11	MEOH, Lot NA	1 mL	level1gassk_00001	1 mL	Vinyl chloride	2000 ug/mL
....level1gassk_00001	02/28/12	SUPELCO, Lot LB65254			(Purchased Reagent)		Vinyl chloride	2000 ug/mL
LOW8260STD WK_00215	12/18/12	12/11/12	1, Lot DG860	1 mL	8260 STD WK_00216	50 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-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-Chlorohexane	5 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethylbenzene	5 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylene Dibromide	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	5 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							Trichloroethene	5 ug/mL
					GAS STD WK RE_00254	50 uL	Bromomethane	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
					KET/CS2 STDWK_00184	50 uL	2-Butanone (MEK)	5 ug/mL
							2-Hexanone	5 ug/mL
							4-Methyl-2-pentanone (MIBK)	5 ug/mL
							Acetone	5 ug/mL
							Carbon disulfide	5 ug/mL
					VA/2CEVESTDWK_00179	50 uL	2-Chloroethyl vinyl ether	5 ug/mL
							Vinyl acetate	5 ug/mL
.8260 STD WK_00216	12/25/12	12/11/12	METHANOL, Lot NA	2 mL	8260 STD STK_00033	2 mL	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-Dichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Chlorohexane	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl tert-butyl ether	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
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260 STD STK_00033	08/31/14		Restek, Lot A088677		(Purchased Reagent)		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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-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-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-Chlorohexane	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl tert-butyl ether	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
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
.GAS STD WK RE_00254	12/18/12	12/11/12	METHANOL, Lot NA	2 mL	GAS STD SK_00028	2 mL	Bromomethane	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
..GAS STD SK_00028	08/31/14		RESTEK, Lot A088739		(Purchased Reagent)		Bromomethane	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
.KET/CS2 STDWK_00184	12/25/12	12/11/12	METHANOL, Lot NA	2 mL	KET/CS2 SK_00014	2 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Carbon disulfide	100 ug/mL
..KET/CS2 SK_00014	11/30/13		Restek, Lot A088681		(Purchased Reagent)		2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Carbon disulfide	100 ug/mL
.VA/2CEVESTDWK_00179	12/25/12	12/11/12	METHANOL, Lot DG860	2 mL	2-CEVE STD PT_00024	100 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VA STD PT_00025	100 uL	Vinyl acetate	100 ug/mL
..2-CEVE STD PT_00024	02/21/13	11/21/12	METHANOL, Lot NA	1 mL	2-CEVESTDSK_00005	1 mL	2-Chloroethyl vinyl ether	2000 ug/mL
...2-CEVESTDSK_00005	11/30/16		Restek, Lot A085117		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VA STD PT_00025	02/21/13	11/21/12	METHANOL, Lot NA	1 mL	VA STD SK_00007	1 mL	Vinyl acetate	2000 ug/mL
...VA STD SK_00007	03/31/14		RESTEK, Lot A090525		(Purchased Reagent)		Vinyl acetate	2000 ug/mL
LOWACRSTD WK_00193	12/18/12	12/11/12	MEOH, Lot DG860	1 mL	ACR/NITRSTDWK_00212	100 uL	Acetonitrile	80 ug/mL
							Acrolein	400 ug/mL
							Acrylonitrile	80 ug/mL
							Propionitrile	80 ug/mL
.ACR/NITRSTDWK_00212	12/18/12	12/11/12	METHANOL, Lot NA	2 mL	ACRNITSTDSK_00034	2 mL	Acetonitrile	800 ug/mL
							Acrolein	4000 ug/mL
							Acrylonitrile	800 ug/mL
							Propionitrile	800 ug/mL
..ACRNITSTDSK_00034	02/28/13		Restek, Lot A091858		(Purchased Reagent)		Acetonitrile	800 ug/mL
							Acrolein	4000 ug/mL
							Acrylonitrile	800 ug/mL
							Propionitrile	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
M11FSTKHG_00001	05/31/17		ULTRA, Lot L00365		(Purchased Reagent)		Mercury	1000 ug/mL
M12ASTKHG_00001	01/01/13		Inorganic Ventures, Lot E2-HG02091		(Purchased Reagent)		Mercury	1000 ug/mL
M12JSPKIC_00002	05/23/13	10/04/12	1, Lot N\A	500 mL	M12ESTKIC_00003	3 mL	Arsenic	10 ug/mL
					M12ESTKIC_00006	4 mL	Lead	10 ug/mL
					M12ESTKIC_00010	2.5 mL	Tl	10 ug/mL
					M12ESTKIC_00011	50 mL	Al	200 ug/mL
							Barium	200 ug/mL
							Ca	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Na	1000 ug/mL
					M12ESTKIC_00012	50 mL	Arsenic	10 ug/mL
							B	100 ug/mL
							Be	5 ug/mL
							Bi	50 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Co	50 ug/mL
							Cu	25 ug/mL
							Fe	100 ug/mL
							Lead	10 ug/mL
							Li	50 ug/mL
							Mn	50 ug/mL
							Ni	50 ug/mL
							Selenium	10 ug/mL
							Sr	100 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	50 ug/mL
					M12ESTKIC_00013	50 mL	Mo	100 ug/mL
							Sb	50 ug/mL
							Si	500 ug/mL
							Silver	5 ug/mL
							Sn	100 ug/mL
							Ti	100 ug/mL
					M12ISTKIC_00004	4.5 mL	Selenium	10 ug/mL
.M12ESTKIC_00003	06/01/13		IV, Lot F2-AS02083		(Purchased Reagent)		Arsenic	1000 ug/mL
.M12ESTKIC_00006	06/01/13		IV, Lot F2-PB03035		(Purchased Reagent)		Lead	1000 ug/mL
.M12ESTKIC_00010	06/01/13		IV, Lot E2-TL01124		(Purchased Reagent)		Tl	1000 ug/mL
.M12ESTKIC_00011	05/23/13		EE, Lot 1214205		(Purchased Reagent)		Al	2000 ug/mL
							Barium	2000 ug/mL
							Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
.M12ESTKIC_00012	05/23/13		EE, Lot 1214206		(Purchased Reagent)		Arsenic	40 ug/mL
							B	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Be	50 ug/mL
							Bi	500 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Cu	250 ug/mL
							Fe	1000 ug/mL
							Lead	20 ug/mL
							Li	500 ug/mL
							Mn	500 ug/mL
							Ni	500 ug/mL
							Selenium	10 ug/mL
							Sr	1000 ug/mL
							Tl	50 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.M12ESTKIC_00013	05/23/13		EE, Lot 1214331		(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Si	5000 ug/mL
							Silver	50 ug/mL
							Sn	1000 ug/mL
							Ti	1000 ug/mL
.M12ISTKIC_00004	09/01/13		IV, Lot E2-SE02033		(Purchased Reagent)		Selenium	1000 ug/mL
M12KCCVIC_00002	07/10/13	11/20/12	1, Lot N/A	1000 mL	M12GSTKIC_00002	10 mL	Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Lead	0.5 ug/mL
							Selenium	0.5 ug/mL
					M12GSTKIC_00003	10 mL	Silver	0.5 ug/mL
.M12GSTKIC_00002	07/10/13		HP, Lot 1219103		(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M12GSTKIC_00003	07/10/13		HP, Lot 1219104		(Purchased Reagent)		Silver	50 ug/mL
M12LCRIIC_00001	06/01/13	12/03/12	1, Lot NA	1000 mL	M12ESTKIC_00002	2 mL	Arsenic	20 ug/L
							Barium	20 ug/L
							Cadmium	4 ug/L
							Chromium	20 ug/L
							Lead	10 ug/L
							Selenium	20 ug/L
							Silver	10 ug/L
.M12ESTKIC_00002	06/01/13		IV, Lot F2-MEB423074		(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL
M12LICVIC_00001	07/10/13	12/06/12	1, Lot N/A	1000 mL	M12GSTKIC_00002	8 mL	Arsenic	0.4 ug/mL
							Barium	0.4 ug/mL
							Cadmium	0.4 ug/mL
							Chromium	0.4 ug/mL
							Lead	0.4 ug/mL
							Selenium	0.4 ug/mL
					M12GSTKIC_00003	8 mL	Silver	0.4 ug/mL
.M12GSTKIC_00002	07/10/13	HP, Lot 1219103			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M12GSTKIC_00003	07/10/13	HP, Lot 1219104			(Purchased Reagent)		Silver	50 ug/mL
M12LISAIC_00001	12/01/13	12/03/12	1, Lot na	1000 mL	M12KSTKIC_00003	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M12KSTKIC_00003	12/01/13	IV, Lot F2-meb414132			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
M12LISBIC_00001	09/01/13	12/03/12	1, Lot B51037	1000 mL	M12ISTKIC_00003	10 mL	Arsenic	0.1 ug/mL
							Barium	0.5 ug/mL
							Be	0.5 ug/mL
							Cadmium	1 ug/mL
							Chromium	0.5 ug/mL
							Co	0.5 ug/mL
							Cu	0.5 ug/mL
							Lead	0.05 ug/mL
							Mn	0.5 ug/mL
							Ni	1 ug/mL
							Sb	0.6 ug/mL
							Selenium	0.05 ug/mL
							Silver	0.2 ug/mL
							Tl	0.1 ug/mL
							V	0.5 ug/mL
							Zn	1 ug/mL
					M12KSTKIC_00003	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M12ISTKIC_00003	09/01/13	IV, Lot E2-MEB399019			(Purchased Reagent)		Arsenic	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Barium	50 ug/mL
							Be	50 ug/mL
							Cadmium	100 ug/mL
							Chromium	50 ug/mL
							Co	50 ug/mL
							Cu	50 ug/mL
							Lead	5 ug/mL
							Mn	50 ug/mL
							Ni	100 ug/mL
							Sb	60 ug/mL
							Selenium	5 ug/mL
							Silver	20 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	100 ug/mL
.M12KSTKIC_00003	12/01/13		IV, Lot F2-meb414132		(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
VA/2CEVESTDWK_00179	12/25/12	12/11/12	METHANOL, Lot DG860	2 mL	2-CEVE STD PT_00024	100 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VA STD PT_00025	100 uL	Vinyl acetate	100 ug/mL
.2-CEVE STD PT_00024	02/21/13	11/21/12	METHANOL, Lot NA	1 mL	2-CEVESTDSK_00005	1 mL	2-Chloroethyl vinyl ether	2000 ug/mL
..2-CEVESTDSK_00005	11/30/16		Restek, Lot A085117		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
.VA STD PT_00025	02/21/13	11/21/12	METHANOL, Lot NA	1 mL	VA STD SK_00007	1 mL	Vinyl acetate	2000 ug/mL
..VA STD SK_00007	03/31/14		RESTEK, Lot A090525		(Purchased Reagent)		Vinyl acetate	2000 ug/mL
VOC/THF SPK_00127	12/25/12	12/11/12	1, Lot DG860	2 mL	VOCLIQSPKPT_00021	50 uL	Benzene	50 mg/L
							cis-1,2-Dichloroethene	50 mg/L
							Ethylbenzene	50 mg/L
							m-Xylene & p-Xylene	100 mg/L
							o-Xylene	50 mg/L
							Tetrachloroethene	50 mg/L
							Toluene	50 mg/L
							trans-1,2-Dichloroethene	50 mg/L
							Trichloroethene	50 mg/L
							Xylenes, Total	150 mg/L
.VOCLIQSPKPT_00021	02/13/13	11/13/12	MEOH, Lot NA	1 mL	VOCLIQSPKSK_00006	1 mL	Benzene	2000 mg/L
							cis-1,2-Dichloroethene	2000 mg/L
							Ethylbenzene	2000 mg/L
							m-Xylene & p-Xylene	4000 mg/L
							o-Xylene	2000 mg/L
							Tetrachloroethene	2000 mg/L
							Toluene	2000 mg/L
							trans-1,2-Dichloroethene	2000 mg/L
							Trichloroethene	2000 mg/L
							Xylenes, Total	6000 mg/L
..VOCLIQSPKSK_00006	09/30/13		accustandard inc., Lot 211091246		(Purchased Reagent)		Benzene	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							o-Xylene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
WCSTAK_00006	06/11/13	baker, Lot y04h05 4 gms			(Purchased Reagent)		Alkalinity	5000 mg/L
WCSTTC1_00058	12/20/12	Mallinckrodt, Lot e16650			(Purchased Reagent)		TOC Dup	2000 mg/L
							TOC Result 1	2000 mg/L
							TOC Result 2	2000 mg/L
WCSTTC2_00072	01/11/13	J.T. Baker, Lot e41619			(Purchased Reagent)		TOC Dup	2000 mg/L
							TOC Result 1	2000 mg/L
							TOC Result 2	2000 mg/L
WSTICCL1_00007	02/28/14	ERA, Lot 220212			(Purchased Reagent)		Chloride	1000 mg/L
WSTICCL2_00007	10/31/13	RICCA, Lot 4204907			(Purchased Reagent)		Chloride	1000 mg/L
WSTICN031_00005	05/31/14	ERA, Lot 480412			(Purchased Reagent)		Nitrate as N	1000 mg/L
WSTICNI1_00004	08/31/13	ERA, Lot 050811			(Purchased Reagent)		Nitrite as N	1000 mg/L
WSTICNO2II_00002	04/30/14	AccuStandard, Lot 212045119			(Purchased Reagent)		Nitrite as N	1000 ug/mL
WSTICNO32_00008	11/30/13	RICCA, Lot 4206191			(Purchased Reagent)		Nitrate as N	1000 mg/L
WSTICS1_00006	03/31/14	ERA, Lot 240312			(Purchased Reagent)		Sulfate	1000 mg/L
WSTICS2_00005	12/31/12	RICCA, Lot 1106608			(Purchased Reagent)		Sulfate	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VGRSK175s_00014	02/16/14	SIGMA-Aldrich, Lot 363PLU1SPC06L			(Purchased Reagent)		Ethane	12300.8 ug/L
							Ethylene	11543.3 ug/L
							Methane	6516.45 ug/L
VGRSK175s_00015	07/03/14	SIGMA-Aldrich, Lot 157PLU2SPC06L			(Purchased Reagent)		Ethane	12300.8 ug/L
							Ethylene	11543.3 ug/L
							Methane	6516.45 ug/L

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

367246
ID: VGRSK175s_00014
Exp: 02/16/14 Expd MRV Open: 02/25/12
1%CO2,CO,Meth,Ethe,Etha,A

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

SIGMA-ALDRICH
P419854
595 NORTH HARRISON ROAD
BELLEFONTE PA 16823
US

DOCUMENT#:45174092 -001
PO#: P419854
ITEM #: T216-48
CUST ITEM #: 23462
DATE: 17Feb2012

ANALYTICAL ACCURACY: +/-02%
PRODUCT EXPIRATION: 16Feb2014

SCOTT LOT#: 363PLU1SPC06L

COMPONENT	REQUESTED GAS CONC MOLES		ANALYSIS (MOLES)	
ACETYLENE	1.	%	1.01	%
CARBON DIOXIDE	1.	%	1.00	%
CARBON MONOXIDE	1.	%	.999	%
ETHANE	1.	%	.997	%
ETHYLENE	1.	%	.999	%
METHANE	1.	%	1.00	%
NITROGEN		BALANCE		BALANCE

MANUFACTURED DATE: 17Feb2012 SCOTTY SIZE: 48

APPROVED BY: JAKE SENKOW

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

367970
ID: VGRSK175s_00015
Exp: 07/03/14 Prpd. MRV
1%CO2,CO,Meth,Ethe,Etha,A

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

SIGMA-ALDRICH
P423707
595 NORTH HARRISON ROAD
BELLEFONTE PA 16823
US

DOCUMENT#:46785122 -001
PO#: P423707
ITEM #: T216-48
CUST ITEM #: 23462
DATE: 03Jul2012

ANALYTICAL ACCURACY: +/-2%
PRODUCT EXPIRATION: 03Jul2014

SCOTT LOT#: 157PLU2SPC06L

COMPONENT	REQUESTED GAS CONC MOLES		ANALYSIS (MOLES)	
ACETYLENE	1.	%	1.03	%
CARBON DIOXIDE	1.	%	1.00	%
CARBON MONOXIDE	1.	%	1.00	%
ETHANE	1.	%	1.00	%
ETHYLENE	1.	%	1.00	%
METHANE	1.	%	1.00	%
NITROGEN		BALANCE		BALANCE

MANUFACTURED DATE: 03Jul2012 SCOTTY SIZE: 48

APPROVED BY: JAKE SENKOW

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: Vulcan Louisville Fansteel

TestAmerica Job ID: 500-53164-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAP	9	01132CA
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Georgia	State Program	4	N/A
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAP	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAP	7	E-10161
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Kentucky (UST)	State Program	4	66
TestAmerica Chicago	L-A-B	DoD ELAP		L2304
TestAmerica Chicago	L-A-B	ISO/IEC 17025		L2304
TestAmerica Chicago	Louisiana	NELAP	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina DENR	State Program	4	291
TestAmerica Chicago	North Dakota	State Program	8	R-194
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAP	6	T104704252-09-TX
TestAmerica Chicago	USDA	Federal		P330-12-00038
TestAmerica Chicago	Virginia	NELAP	3	460142
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAP	4	E87467
TestAmerica Burlington	L-A-B	DoD ELAP		L2336
TestAmerica Burlington	Louisiana	NELAP	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	New Jersey	NELAP	2	VT972
TestAmerica Burlington	New York	NELAP	2	10391
TestAmerica Burlington	Pennsylvania	NELAP	3	68-00489
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Virginia	NELAP	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
VLF-MW-6	500-53164-1	96	95	99	92
VLF-MW-6 DL	500-53164-1 DL	97	92	97	92
VLF-MW-6A	500-53164-2	98	95	98	93
VLF-MW-6A DL	500-53164-2 DL	99	97	100	94
VLF-MW-7	500-53164-3	94	92	98	92
VLF-MW-5	500-53164-4	99	94	98	94
VLF-MW-2	500-53164-5	96	94	97	92
TRIP BLANK	500-53164-6	94	88	99	95
	MB 500-172880/6	90	88	93	88
	LCS 500-172880/4	97	96	99	100
VLF-MW-7 MS	500-53164-3 MS	95	93	97	96
VLF-MW-7 MSD	500-53164-3 MSD	93	91	95	95

	QC LIMITS
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-125
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

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.: 500-53164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 22S1213.D

Lab ID: LCS 500-172880/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	50.0	50.2	100	70-120	
trans-1,2-Dichloroethene	50.0	52.1	104	70-124	
cis-1,2-Dichloroethene	50.0	51.0	102	70-120	
Ethylbenzene	50.0	53.3	107	75-120	
Trichloroethene	50.0	51.0	102	70-120	
Tetrachloroethene	50.0	53.1	106	70-123	
Toluene	50.0	50.1	100	70-120	
Vinyl chloride	50.0	47.8	96	62-138	
Xylenes, Total	150	153	102	70-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 53164-03S.D

Lab ID: 500-53164-3 MS Client ID: VLF-MW-7 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	50.0	0.074 U	48.7	97	70-120	
trans-1,2-Dichloroethene	50.0	0.25 U	50.9	102	70-124	
cis-1,2-Dichloroethene	50.0	1.3	51.6	101	70-120	
Ethylbenzene	50.0	0.13 U	51.0	102	75-120	
Trichloroethene	50.0	0.19 U	49.7	99	70-120	
Tetrachloroethene	50.0	0.17 U	50.6	101	70-123	
Toluene	50.0	0.11 U	48.9	98	70-120	
Vinyl chloride	50.0	0.10 U	47.9	96	62-138	
Xylenes, Total	150	0.068 U	148	99	70-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 53164-03T.D

Lab ID: 500-53164-3 MSD Client ID: VLF-MW-7 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	50.0	49.7	99	2	20	70-120	
trans-1,2-Dichloroethene	50.0	52.6	105	3	20	70-124	
cis-1,2-Dichloroethene	50.0	52.1	102	1	20	70-120	
Ethylbenzene	50.0	51.2	102	0	20	75-120	
Trichloroethene	50.0	50.0	100	1	20	70-120	
Tetrachloroethene	50.0	51.0	102	1	20	70-123	
Toluene	50.0	49.4	99	1	20	70-120	
Vinyl chloride	50.0	50.0	100	4	20	62-138	
Xylenes, Total	150	148	99	0	20	70-120	

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.: 500-53164-1

SDG No.:

Lab File ID: 22M1213.D Lab Sample ID: MB 500-172880/6

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

Instrument ID: CMS22 Date Analyzed: 12/13/2012 13:24

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 500-172880/4	22S1213.D	12/13/2012 12:32
TRIP BLANK	500-53164-6	53164-06.D	12/13/2012 13:50
VLF-MW-7	500-53164-3	53164-03.D	12/13/2012 17:17
VLF-MW-5	500-53164-4	53164-04.D	12/13/2012 17:43
VLF-MW-2	500-53164-5	53164-05.D	12/13/2012 18:09
VLF-MW-6	500-53164-1	53164-01.D	12/13/2012 18:35
VLF-MW-6 DL	500-53164-1 DL	53164-01A.D	12/13/2012 19:02
VLF-MW-6A	500-53164-2	53164-02.D	12/13/2012 19:28
VLF-MW-6A DL	500-53164-2 DL	53164-02A.D	12/13/2012 19:54
VLF-MW-7 MS	500-53164-3 MS	53164-03S.D	12/13/2012 21:12
VLF-MW-7 MSD	500-53164-3 MSD	53164-03T.D	12/13/2012 21:38

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab File ID: 22B1211.D BFB Injection Date: 12/11/2012

Instrument ID: CMS22 BFB Injection Time: 13:45

Analysis Batch No.: 172615

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.6	
75	30.0 - 60.0 % of mass 95	45.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	86.2	
175	5.0 - 9.0 % of mass 174	5.9	(6.8)1
176	95.0 - 101.0 % of mass 174	86.4	(100.2)1
177	5.0 - 9.0 % of mass 176	4.9	(5.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD01 500-172615/2	22I1211A.D	12/11/2012	14:23
	STD02 500-172615/3	22I1211B.D	12/11/2012	14:51
	STD03 500-172615/4	22I1211C.D	12/11/2012	15:20
	STD04 500-172615/5	22I1211D.D	12/11/2012	15:48
	STD05 500-172615/6	22I1211E.D	12/11/2012	16:16
	STD06 500-172615/7	22I1211F.D	12/11/2012	16:44
	STD07 500-172615/8	22I1211G.D	12/11/2012	17:13
	STD08 500-172615/9	22I1211H.D	12/11/2012	17:41
	STD09 500-172615/10	22I1211I.D	12/11/2012	18:09
	ICV 500-172615/23	22S1211.D	12/12/2012	00:17

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab File ID: 22B1213.D BFB Injection Date: 12/13/2012

Instrument ID: CMS22 BFB Injection Time: 11:02

Analysis Batch No.: 172880

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	25.1	
75	30.0 - 60.0 % of mass 95	49.6	
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	90.1	
175	5.0 - 9.0 % of mass 174	8.0	(8.8)1
176	95.0 - 101.0 % of mass 174	89.0	(98.9)1
177	5.0 - 9.0 % of mass 176	7.1	(8.0)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
	CCV 500-172880/2	22C1213.D	12/13/2012	11:40
	CCV 500-172880/3	22D1213.D	12/13/2012	12:06
	LCS 500-172880/4	22S1213.D	12/13/2012	12:32
	MB 500-172880/6	22M1213.D	12/13/2012	13:24
TRIP BLANK	500-53164-6	53164-06.D	12/13/2012	13:50
VLF-MW-7	500-53164-3	53164-03.D	12/13/2012	17:17
VLF-MW-5	500-53164-4	53164-04.D	12/13/2012	17:43
VLF-MW-2	500-53164-5	53164-05.D	12/13/2012	18:09
VLF-MW-6	500-53164-1	53164-01.D	12/13/2012	18:35
VLF-MW-6 DL	500-53164-1 DL	53164-01A.D	12/13/2012	19:02
VLF-MW-6A	500-53164-2	53164-02.D	12/13/2012	19:28
VLF-MW-6A DL	500-53164-2 DL	53164-02A.D	12/13/2012	19:54
VLF-MW-7 MS	500-53164-3 MS	53164-03S.D	12/13/2012	21:12
VLF-MW-7 MSD	500-53164-3 MSD	53164-03T.D	12/13/2012	21:38

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Sample No.: STD06 500-172615/7 Date Analyzed: 12/11/2012 16:44

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 22I1211F.D Heated Purge: (Y/N) N

Calibration ID: 10830

		PFB		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		704869	6.27	986088	7.24	835432	10.64
UPPER LIMIT		1409738	6.77	1972176	7.74	1670864	11.14
LOWER LIMIT		352435	5.77	493044	6.74	417716	10.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-172615/23		772269	6.26	1099840	7.24	931671	10.64
CCV 500-172880/2		803413	6.26	1119844	7.24	962009	10.64
CCV 500-172880/3		711972	6.26	994059	7.24	834331	10.64
LCS 500-172880/4		823916	6.26	1136899	7.24	955127	10.64
MB 500-172880/6		753178	6.27	1047011	7.24	904207	10.64
500-53164-6	TRIP BLANK	814359	6.26	1120410	7.24	946779	10.64
500-53164-3	VLF-MW-7	807264	6.26	1114691	7.24	948637	10.64
500-53164-4	VLF-MW-5	779549	6.26	1092631	7.24	945367	10.64
500-53164-5	VLF-MW-2	751321	6.26	1053863	7.24	888298	10.64
500-53164-1	VLF-MW-6	762446	6.26	1058432	7.24	918717	10.64
500-53164-1 DL	VLF-MW-6 DL	740089	6.26	1035543	7.24	893929	10.64
500-53164-2	VLF-MW-6A	768199	6.26	1091942	7.24	929867	10.64
500-53164-2 DL	VLF-MW-6A DL	699897	6.26	985577	7.24	862589	10.64
500-53164-3 MS	VLF-MW-7 MS	805802	6.26	1130645	7.24	952268	10.64
500-53164-3 MSD	VLF-MW-7 MSD	754766	6.27	1065070	7.24	904821	10.64

PFB = Pentafluorobenzene
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

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.: 500-53164-1

SDG No.:

Sample No.: STD06 500-172615/7 Date Analyzed: 12/11/2012 16:44

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 22I1211F.D Heated Purge: (Y/N) N

Calibration ID: 10830

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		501593	13.08				
UPPER LIMIT		1003186	13.58				
LOWER LIMIT		250797	12.58				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-172615/23		542063	13.08				
CCV 500-172880/2		576322	13.08				
CCV 500-172880/3		464399	13.08				
LCS 500-172880/4		570738	13.08				
MB 500-172880/6		489274	13.07				
500-53164-6	TRIP BLANK	519888	13.08				
500-53164-3	VLF-MW-7	526749	13.08				
500-53164-4	VLF-MW-5	517518	13.08				
500-53164-5	VLF-MW-2	487703	13.08				
500-53164-1	VLF-MW-6	496882	13.08				
500-53164-1 DL	VLF-MW-6 DL	489522	13.08				
500-53164-2	VLF-MW-6A	499540	13.08				
500-53164-2 DL	VLF-MW-6A DL	473698	13.08				
500-53164-3 MS	VLF-MW-7 MS	562634	13.08				
500-53164-3 MSD	VLF-MW-7 MSD	538624	13.08				

DCB = 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.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-6 | Lab Sample ID: 500-53164-1

Matrix: Water | Lab File ID: 53164-01.D

Analysis Method: 8260B | Date Collected: 12/11/2012 10:11

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 18:35

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.74	U	5.0	0.74
156-60-5	trans-1,2-Dichloroethene	280		10	2.5
100-41-4	Ethylbenzene	1.3	U	5.0	1.3
79-01-6	Trichloroethene	170		5.0	1.9
127-18-4	Tetrachloroethene	1.7	U	10	1.7
108-88-3	Toluene	2.0	J	5.0	1.1
1330-20-7	Xylenes, Total	0.68	U	10	0.68

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-125
2037-26-5	Toluene-d8 (Surr)	99		75-120
460-00-4	4-Bromofluorobenzene (Surr)	92		75-120
1868-53-7	Dibromofluoromethane	96		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01.D		
Lims ID:	500-53164-F-1	Client ID:	VLF-MW-6
Inject. Date:	13-Dec-2012 18:35:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	500-53164-F-1		
Misc. Info.:	500-0014364-018		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	18
Lims Batch ID:	172880	Lims Sample ID:	18
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 23:34:32	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK022		

First Level Reviewer: alikpalae Date: 14-Dec-2012 15:18:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.657	1.657	0.0	84	3610747	371.1	E
21 trans-1,2-Dichloroethene	96	4.130	4.127	0.003	91	194392	28.3	
29 cis-1,2-Dichloroethene	96	5.473	5.468	0.005	88	7823385	1126.5	E
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	65	293449	48.2	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	91	762446	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	281592	47.6	
* 49 1,4-Difluorobenzene	114	7.238	7.236	0.002	96	1058432	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	89	126828	17.4	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	94	1237225	49.4	
62 Toluene	92	9.131	9.131	0.0	78	3433	0.1983	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	918717	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	93	424539	46.2	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	496882	50.0	

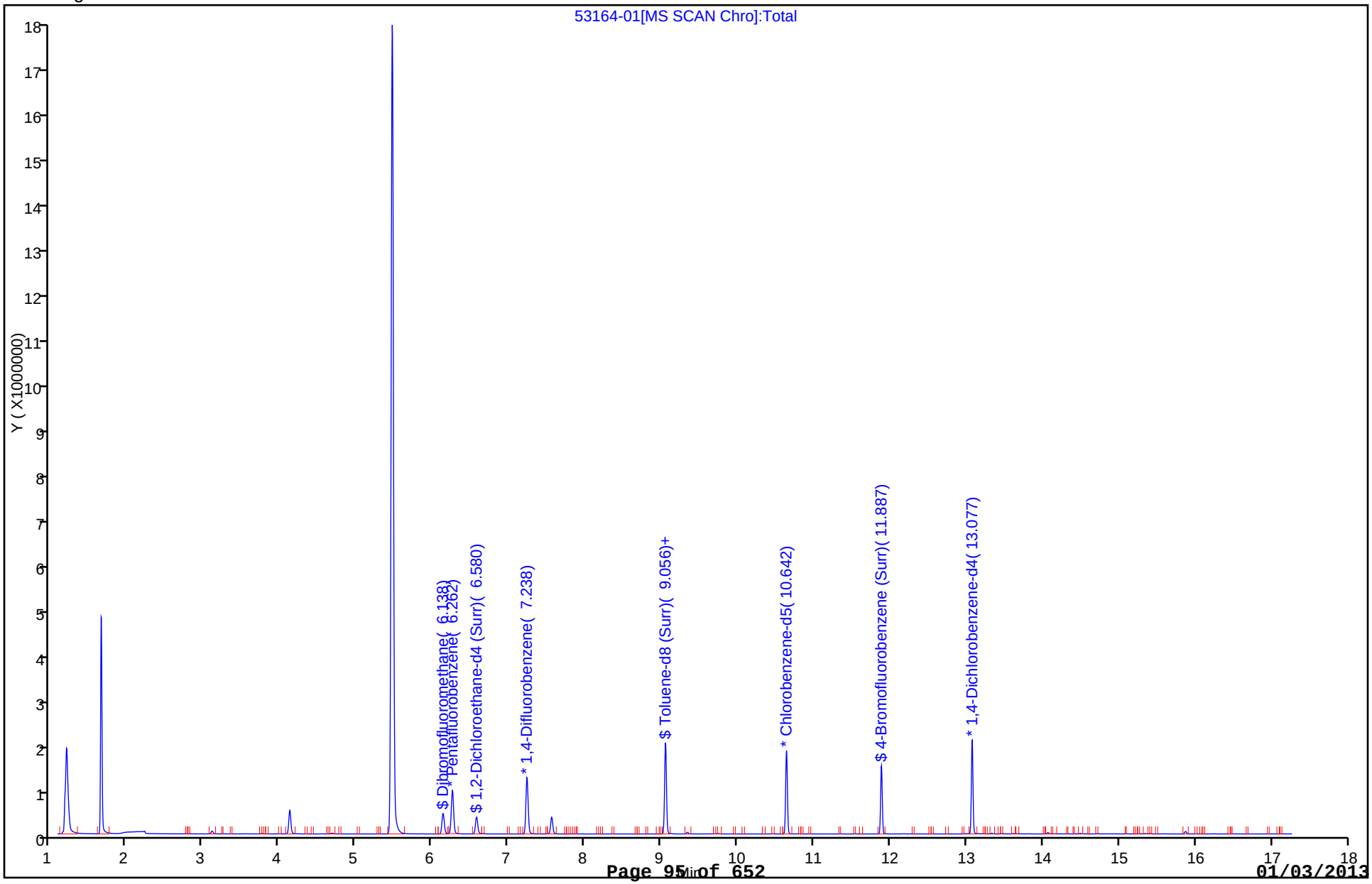
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 14-Dec-2012 15:18:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01.D		
Injection Date:	13-Dec-2012 18:35:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	18
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

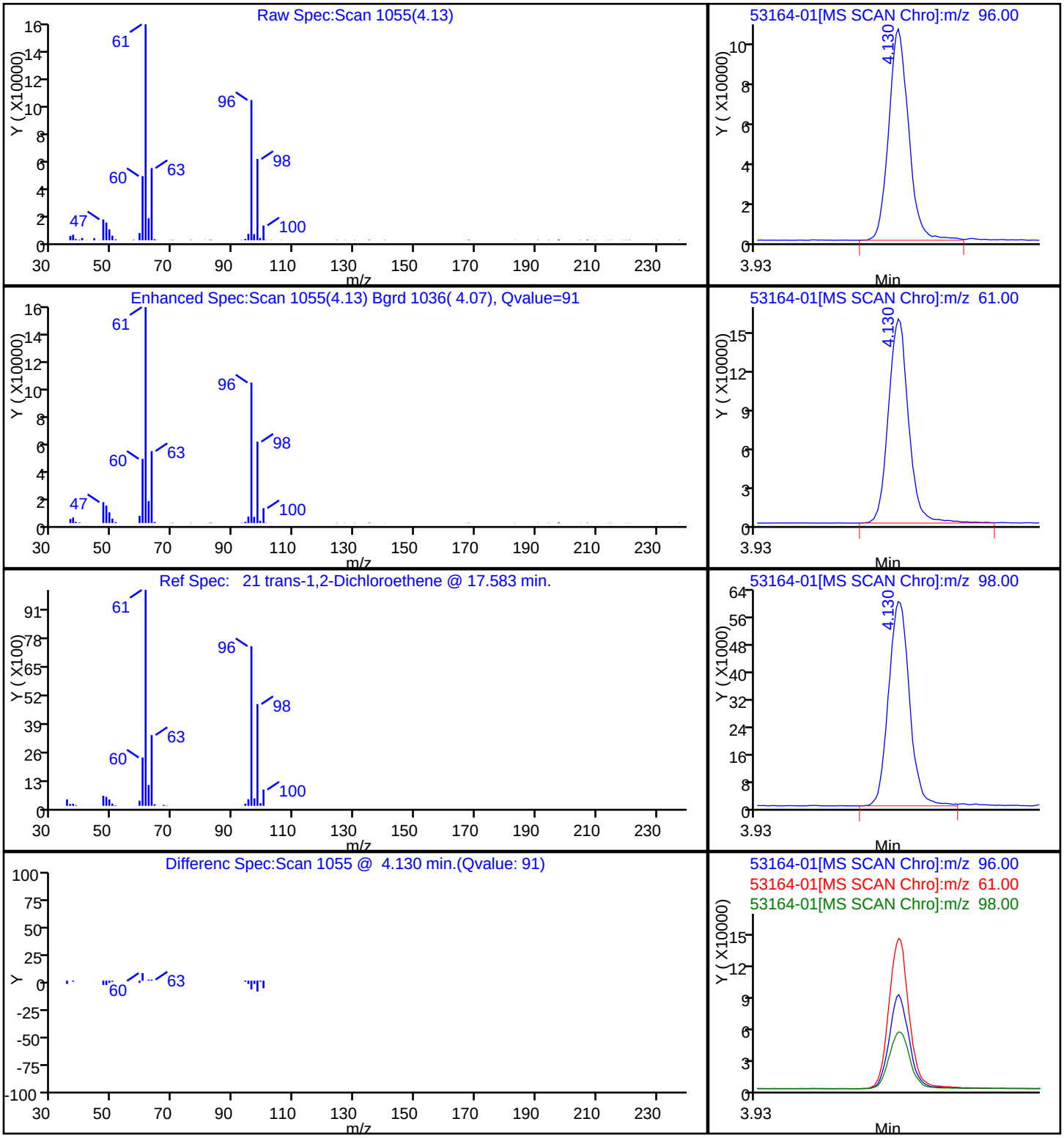


Report Date: 14-Dec-2012 15:18:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01.D		
Injection Date:	13-Dec-2012 18:35:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	18
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

21 trans-1,2-Dichloroethene

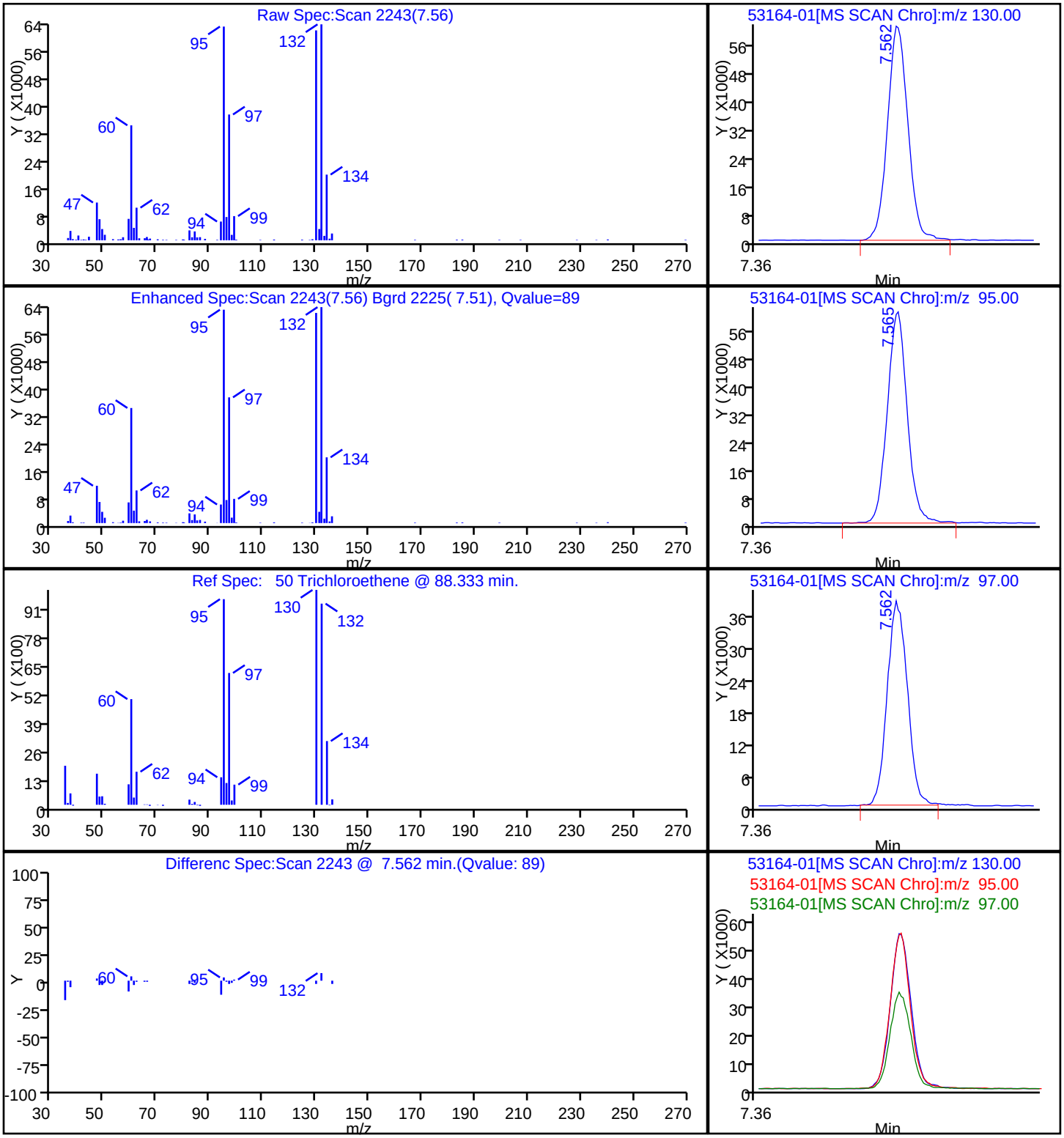


Report Date: 14-Dec-2012 15:18:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01.D		
Injection Date:	13-Dec-2012 18:35:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	18
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

50 Trichloroethene

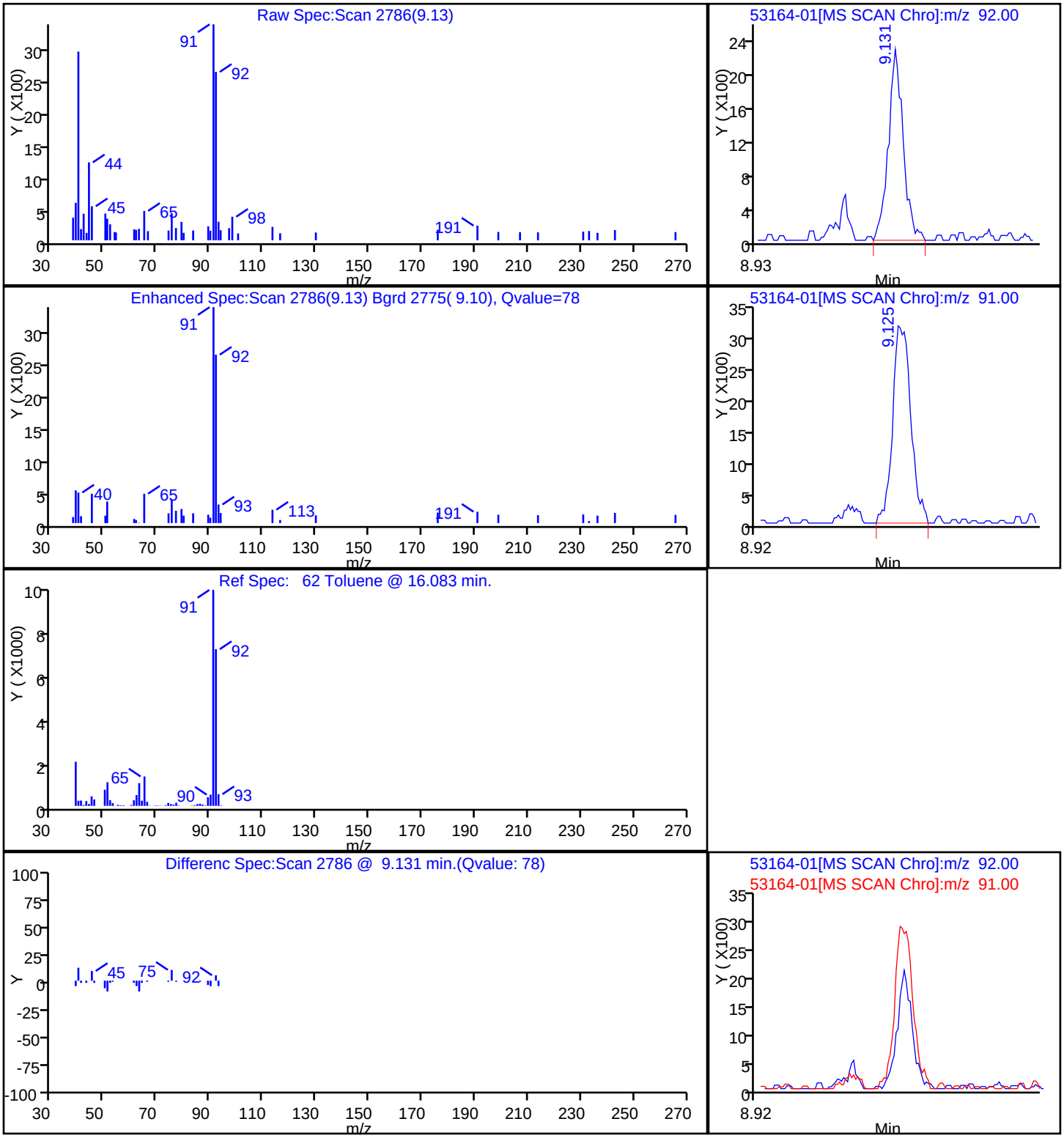


Report Date: 14-Dec-2012 15:18:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01.D		
Injection Date:	13-Dec-2012 18:35:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	18
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

62 Toluene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-6 DL | Lab Sample ID: 500-53164-1 DL

Matrix: Water | Lab File ID: 53164-01A.D

Analysis Method: 8260B | Date Collected: 12/11/2012 10:11

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 19:02

Soil Aliquot Vol: | Dilution Factor: 100

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	14000		100	12
75-01-4	Vinyl chloride	4400		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-125
2037-26-5	Toluene-d8 (Surr)	97		75-120
460-00-4	4-Bromofluorobenzene (Surr)	92		75-120
1868-53-7	Dibromofluoromethane	97		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01A.D		
Lims ID:	500-53164-F-1	Client ID:	VLF-MW-6
Inject. Date:	13-Dec-2012 19:02:30	Dil. Factor:	100.0000
Sample Type:	Client		
Sample ID:	500-53164-F-1		
Misc. Info.:	500-0014364-019		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	19
Lims Batch ID:	172880	Lims Sample ID:	19
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	14-Dec-2012 15:19:35	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK022		

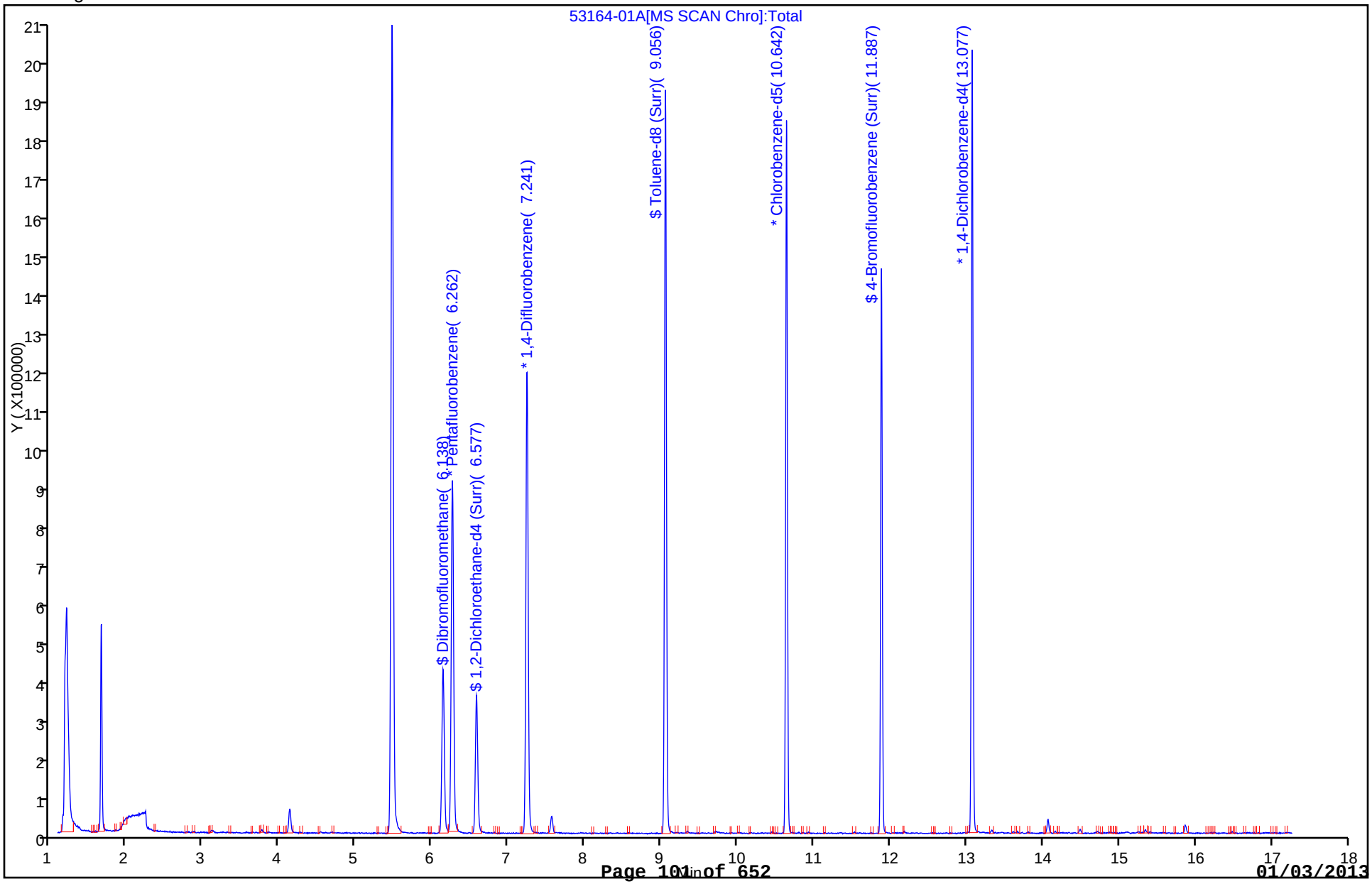
First Level Reviewer: alikpalae Date: 14-Dec-2012 15:19:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.660	1.657	0.003	84	413811	43.8	
29 cis-1,2-Dichloroethene	96	5.473	5.468	0.005	88	931947	138.2	
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	65	285662	48.4	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	92	740089	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	267145	46.2	
* 49 1,4-Difluorobenzene	114	7.241	7.236	0.005	95	1035543	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	95	1193630	48.7	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	893929	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	410172	45.8	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	489522	50.0	

Report Date: 14-Dec-2012 15:19:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01A.D		
Injection Date:	13-Dec-2012 19:02:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	19
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

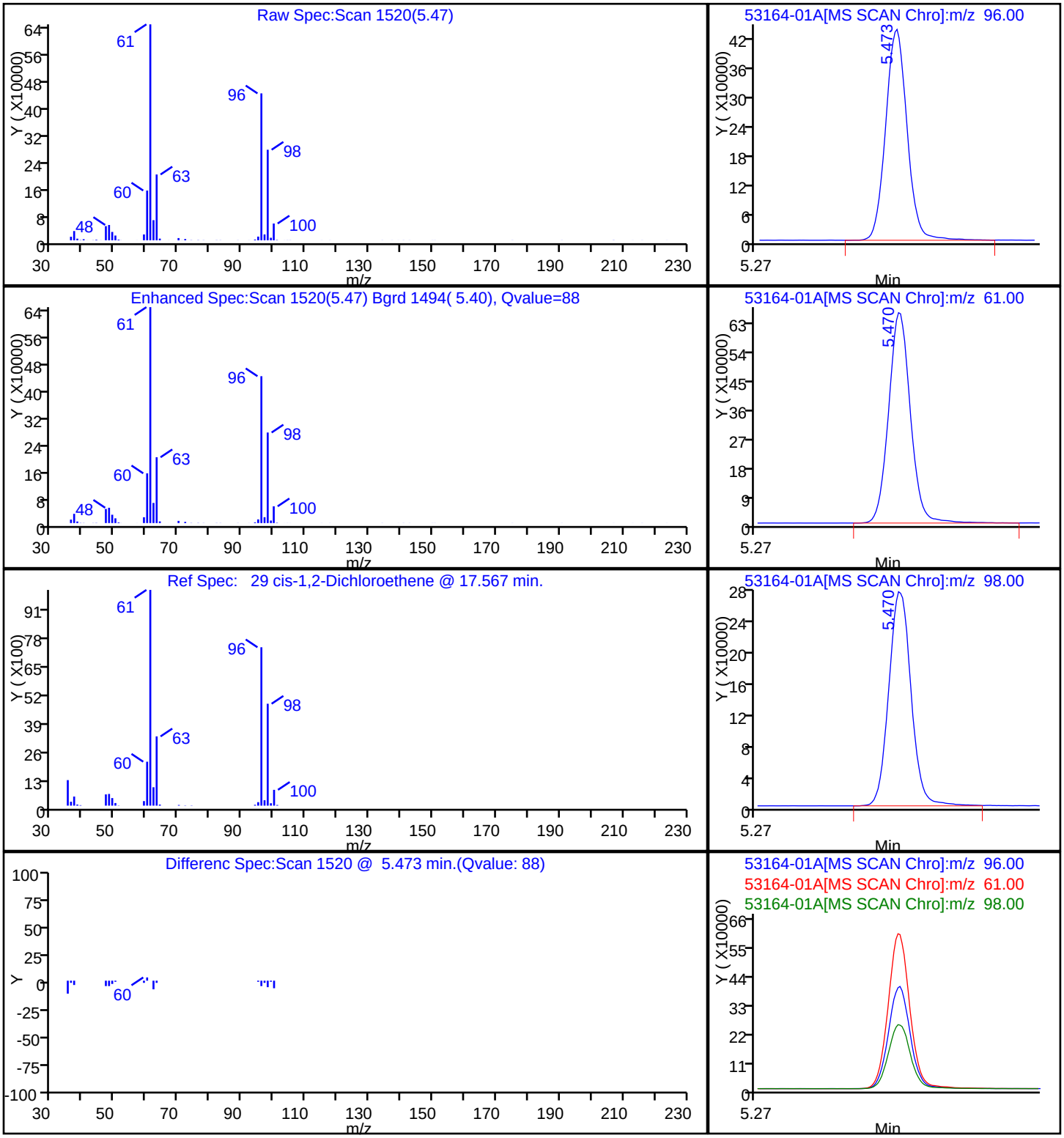


Report Date: 14-Dec-2012 15:19:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01A.D		
Injection Date:	13-Dec-2012 19:02:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	19
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

29 cis-1,2-Dichloroethene

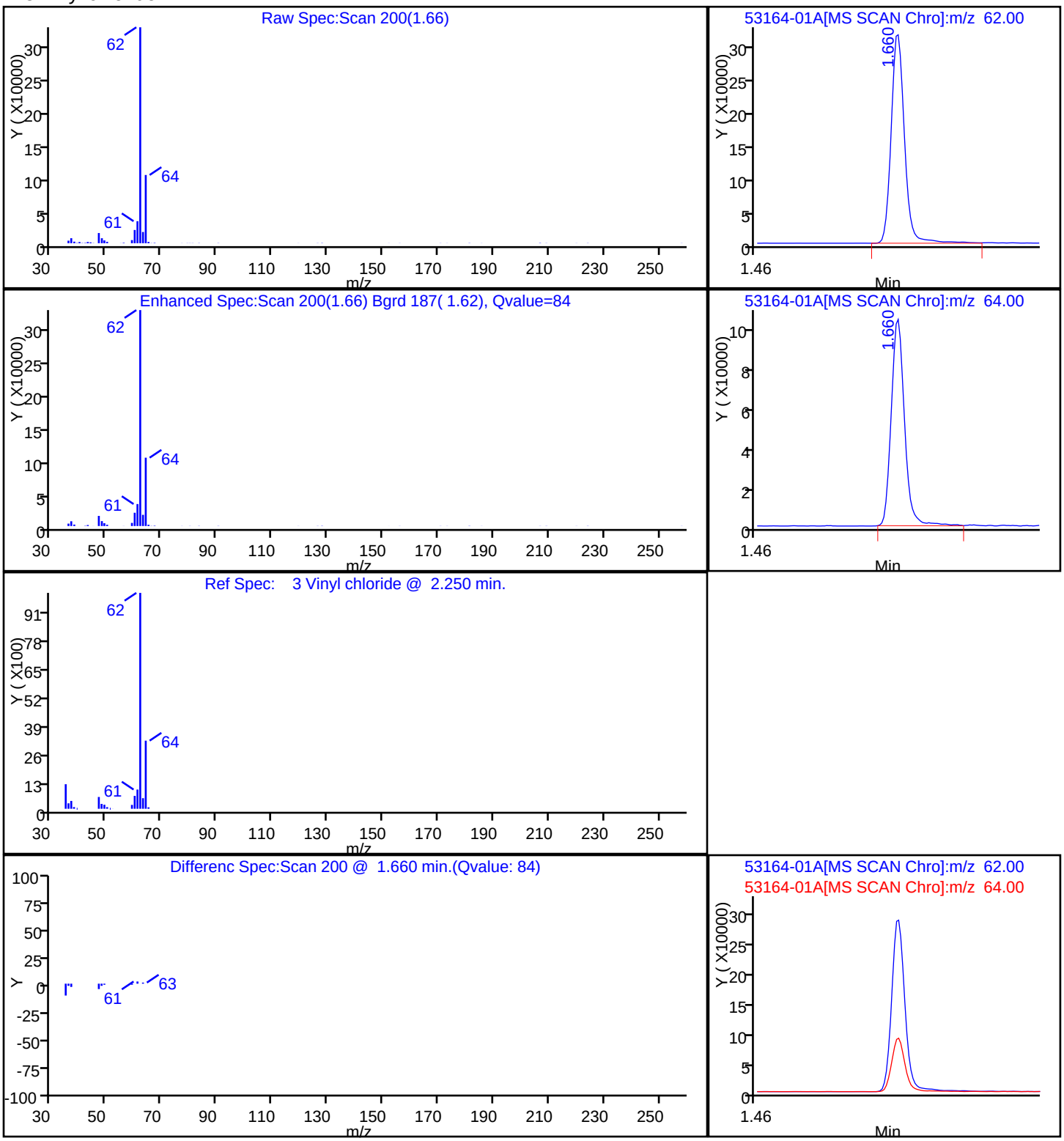


Report Date: 14-Dec-2012 15:19:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-01A.D		
Injection Date:	13-Dec-2012 19:02:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	19
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

3 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-6A | Lab Sample ID: 500-53164-2

Matrix: Water | Lab File ID: 53164-02.D

Analysis Method: 8260B | Date Collected: 12/11/2012 10:11

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 19:28

Soil Aliquot Vol: | Dilution Factor: 20

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.5	U	10	1.5
156-60-5	trans-1,2-Dichloroethene	270		20	5.0
100-41-4	Ethylbenzene	2.6	U	10	2.6
79-01-6	Trichloroethene	160		10	3.8
127-18-4	Tetrachloroethene	3.4	U	20	3.4
108-88-3	Toluene	2.2	U	10	2.2
75-01-4	Vinyl chloride	3800		10	2.0
1330-20-7	Xylenes, Total	1.4	U	20	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-125
2037-26-5	Toluene-d8 (Surr)	98		75-120
460-00-4	4-Bromofluorobenzene (Surr)	93		75-120
1868-53-7	Dibromofluoromethane	98		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-02.D		
Lims ID:	500-53164-G-2	Client ID:	VLF-MW-6A
Inject. Date:	13-Dec-2012 19:28:30	Dil. Factor:	20.0000
Sample Type:	Client		
Sample ID:	500-53164-G-2		
Misc. Info.:	500-0014364-020		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	20
Lims Batch ID:	172880	Lims Sample ID:	20
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	14-Dec-2012 15:19:35	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK022		

First Level Reviewer: alikpalae Date: 14-Dec-2012 15:20:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.657	1.657	0.0	84	1879189	191.7	
21 trans-1,2-Dichloroethene	96	4.130	4.127	0.003	90	92133	13.3	
29 cis-1,2-Dichloroethene	96	5.470	5.468	0.002	88	3893832	556.5	E
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	65	298930	48.8	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	92	768199	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	288902	47.4	
* 49 1,4-Difluorobenzene	114	7.238	7.236	0.002	95	1091942	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	87	60809	8.07	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	85	1272565	49.2	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	929867	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	433035	46.5	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	499540	50.0	

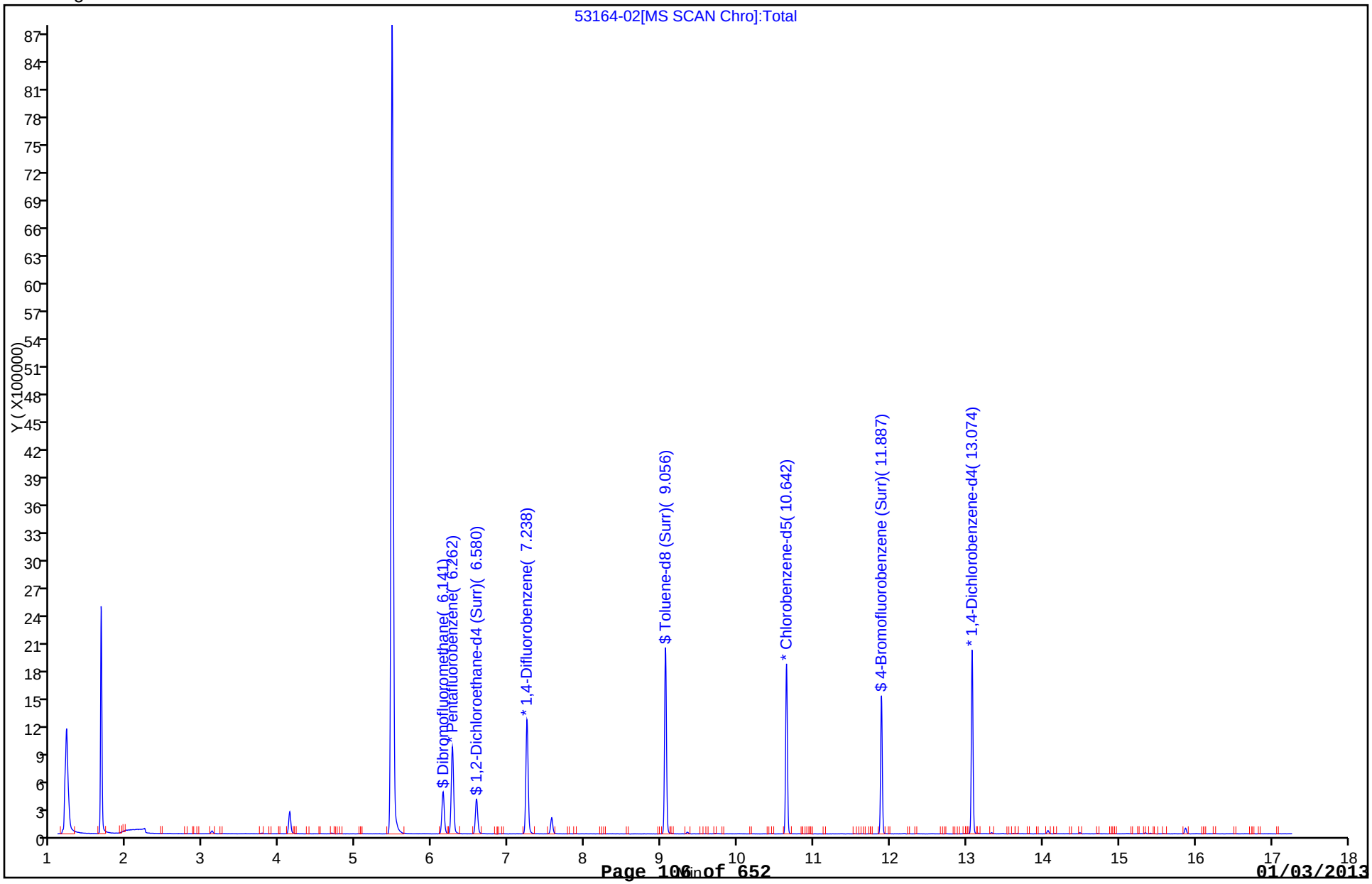
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 14-Dec-2012 15:20:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-02.D		
Injection Date:	13-Dec-2012 19:28:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6A	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	20
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

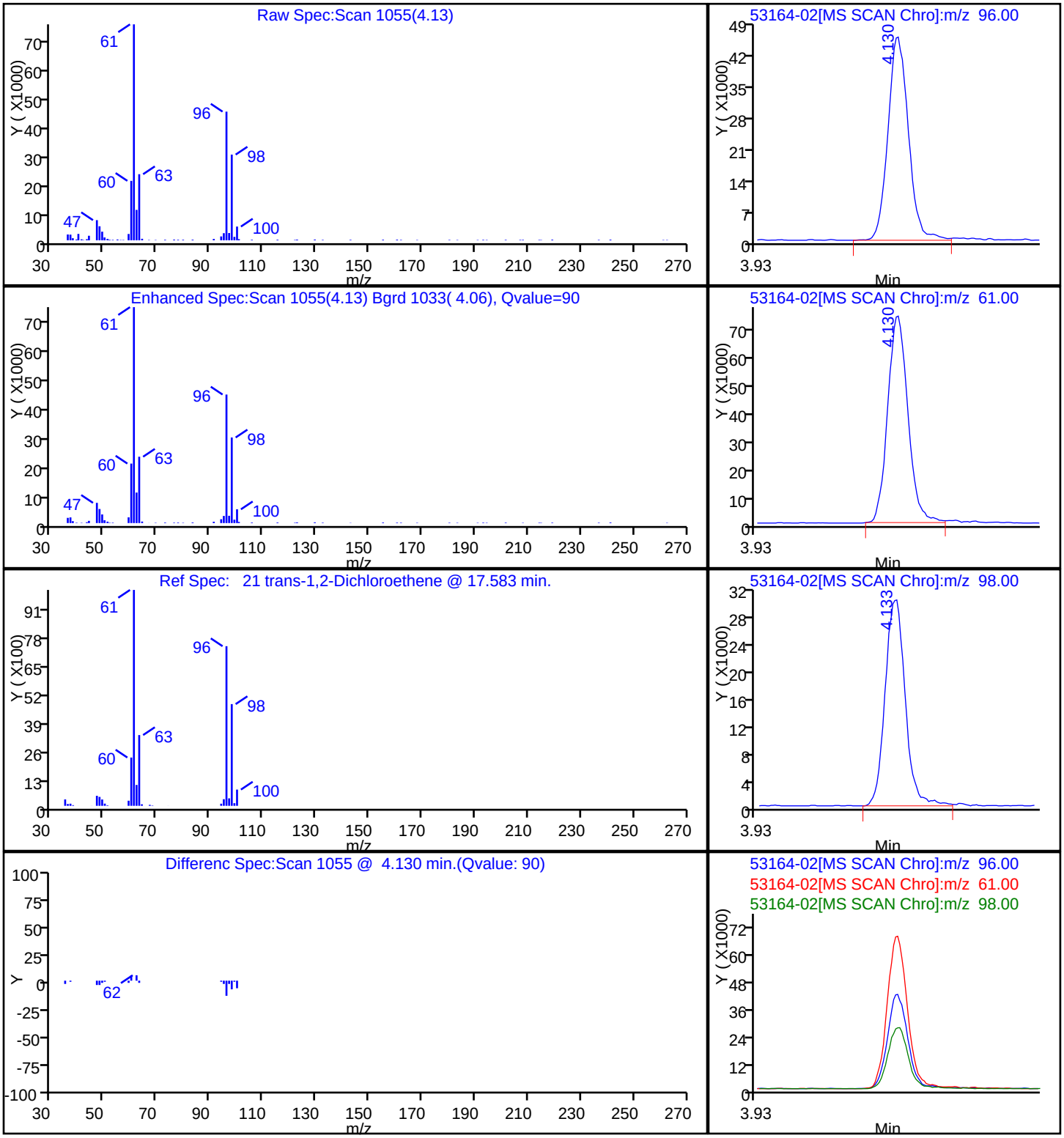


Report Date: 14-Dec-2012 15:20:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-02.D		
Injection Date:	13-Dec-2012 19:28:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6A	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	20
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

21 trans-1,2-Dichloroethene

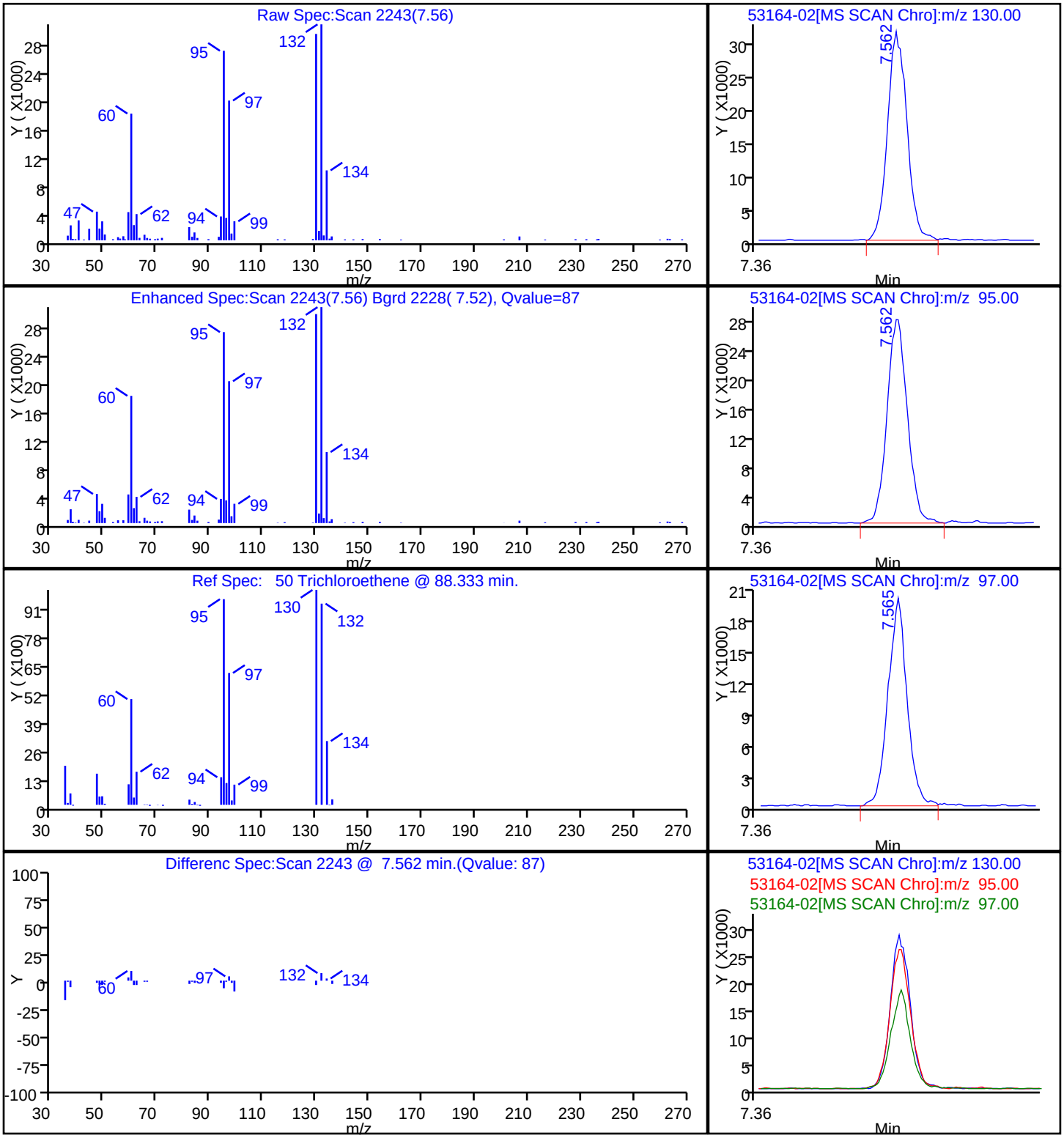


Report Date: 14-Dec-2012 15:20:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-02.D		
Injection Date:	13-Dec-2012 19:28:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6A	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	20
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

50 Trichloroethene

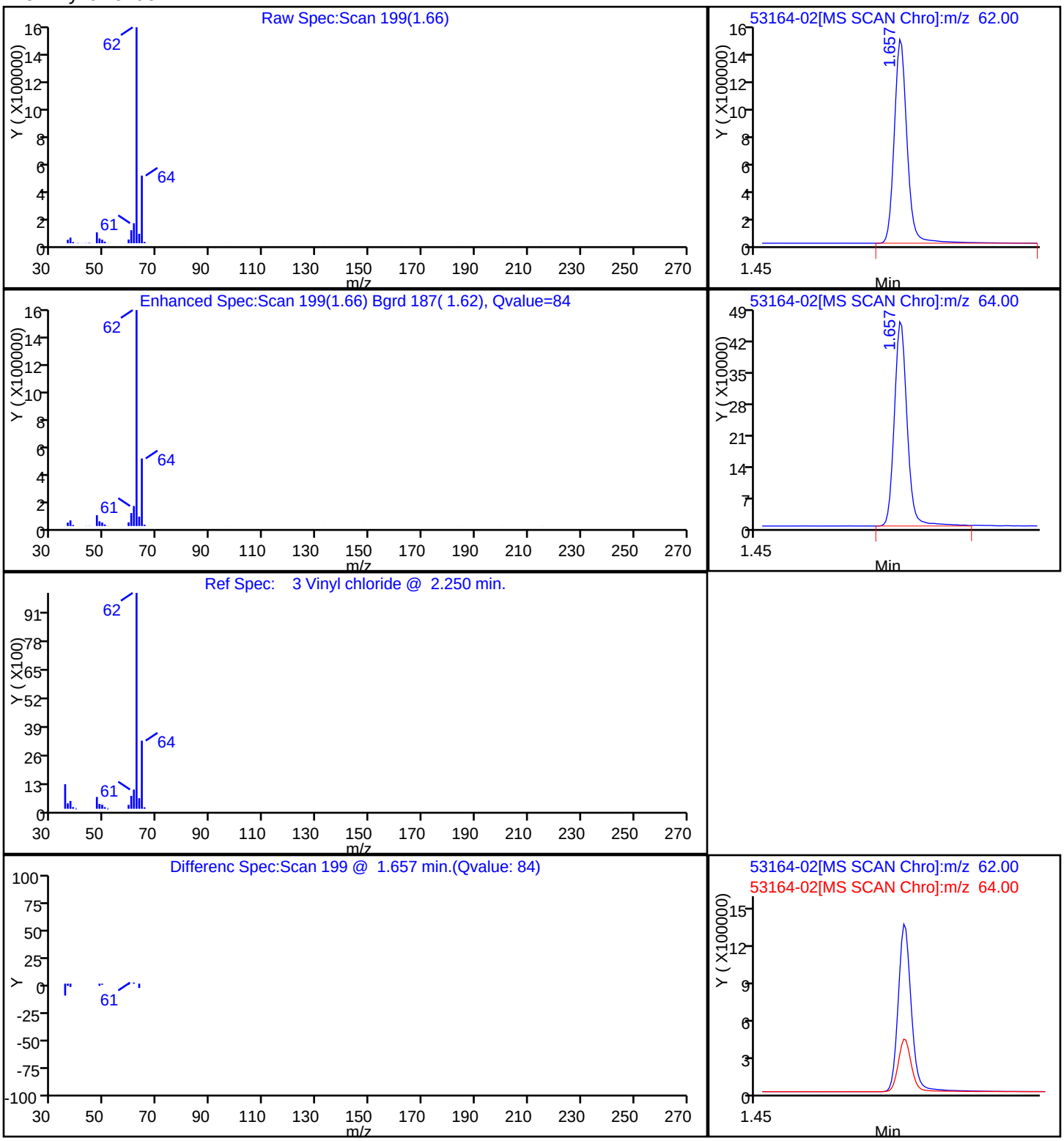


Report Date: 14-Dec-2012 15:20:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-02.D		
Injection Date:	13-Dec-2012 19:28:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6A	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	20
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

3 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-6A DL | Lab Sample ID: 500-53164-2 DL

Matrix: Water | Lab File ID: 53164-02A.D

Analysis Method: 8260B | Date Collected: 12/11/2012 10:11

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 19:54

Soil Aliquot Vol: | Dilution Factor: 200

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	12000		200	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-125
2037-26-5	Toluene-d8 (Surr)	100		75-120
460-00-4	4-Bromofluorobenzene (Surr)	94		75-120
1868-53-7	Dibromofluoromethane	99		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-02A.D		
Lims ID:	500-53164-G-2	Client ID:	VLF-MW-6A
Inject. Date:	13-Dec-2012 19:54:30	Dil. Factor:	200.0000
Sample Type:	Client		
Sample ID:	500-53164-G-2		
Misc. Info.:	500-0014364-021		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	21
Lims Batch ID:	172880	Lims Sample ID:	21
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	14-Dec-2012 15:21:08	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK022		

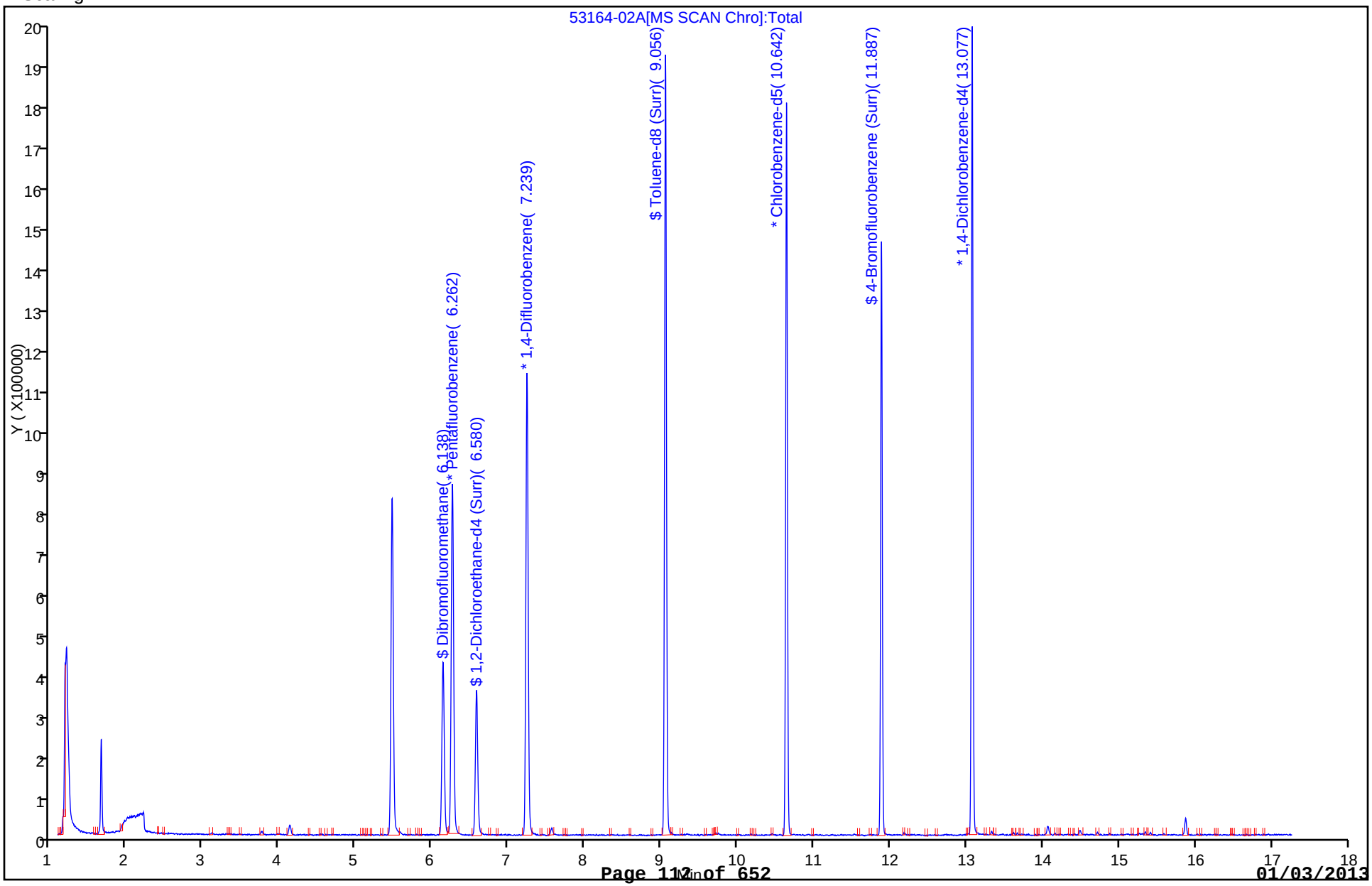
First Level Reviewer: alikpalae Date: 14-Dec-2012 15:21:08

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
29 cis-1,2-Dichloroethene	96	5.471	5.468	0.003	87	372817	58.5	
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	63	276876	49.6	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	92	699897	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	266450	48.4	
* 49 1,4-Difluorobenzene	114	7.239	7.236	0.003	95	985577	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	95	1169798	50.1	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	88	862589	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	405758	47.0	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	473698	50.0	

Report Date: 14-Dec-2012 15:21:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-02A.D		
Injection Date:	13-Dec-2012 19:54:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6A	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	21
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

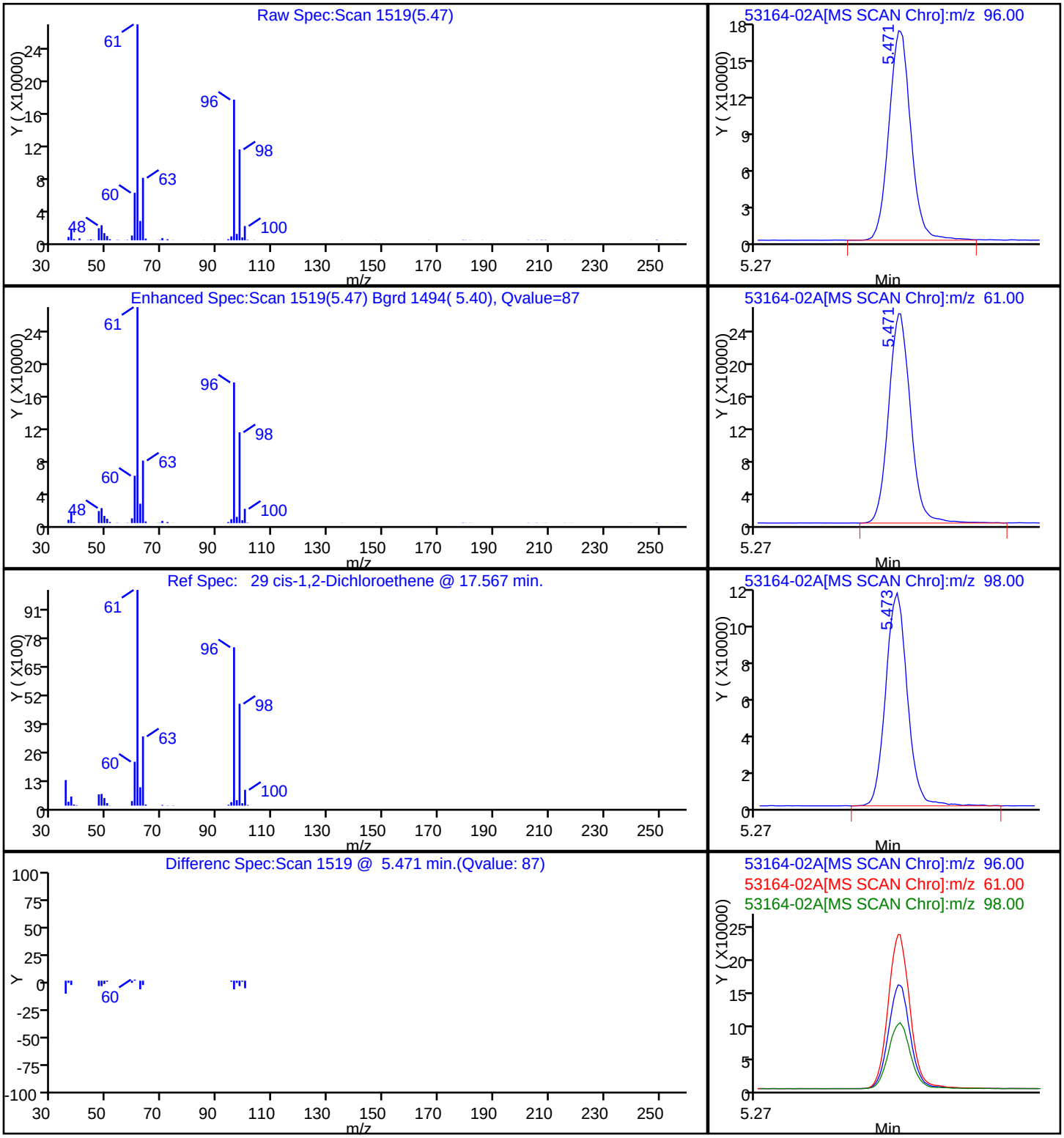


Report Date: 14-Dec-2012 15:21:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-02A.D		
Injection Date:	13-Dec-2012 19:54:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-6A	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	21
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

29 cis-1,2-Dichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-7 | Lab Sample ID: 500-53164-3

Matrix: Water | Lab File ID: 53164-03.D

Analysis Method: 8260B | Date Collected: 12/11/2012 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 17:17

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	0.25	U	1.0	0.25
156-59-2	cis-1,2-Dichloroethene	1.3		1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	0.19	U	0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	0.10	U	0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-125
2037-26-5	Toluene-d8 (Surr)	98		75-120
460-00-4	4-Bromofluorobenzene (Surr)	92		75-120
1868-53-7	Dibromofluoromethane	94		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-03.D		
Lims ID:	500-53164-F-3	Client ID:	VLF-MW-7
Inject. Date:	13-Dec-2012 17:17:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	500-53164-F-3		
Misc. Info.:	500-0014364-015		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	15
Lims Batch ID:	172880	Lims Sample ID:	15
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 17:43:21	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK011		

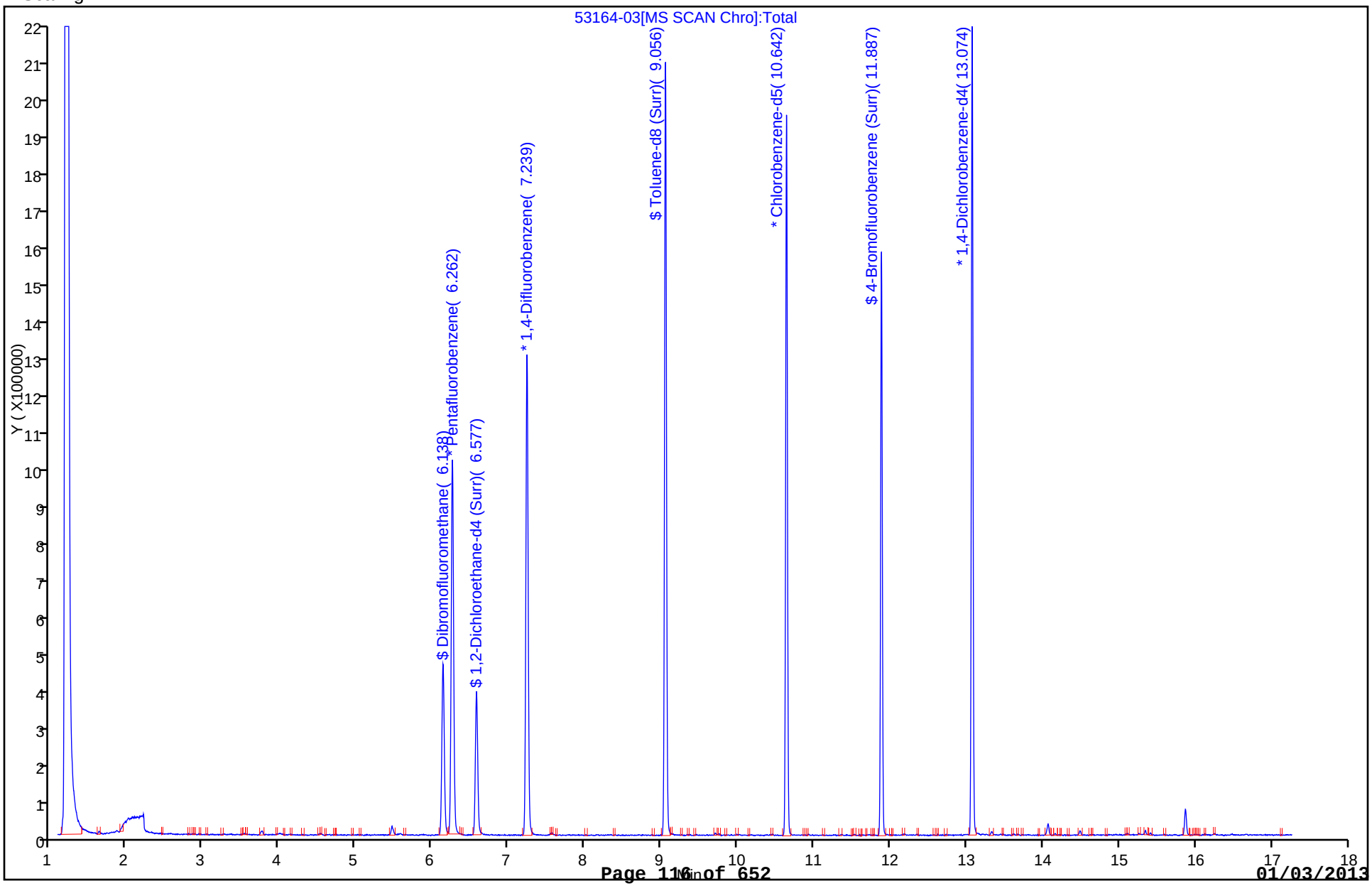
First Level Reviewer: alikpalae Date: 13-Dec-2012 17:44:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
29 cis-1,2-Dichloroethene	96	5.471	5.468	0.002	92	9525	1.30	
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	69	303933	47.2	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	92	807264	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	287685	46.2	
* 49 1,4-Difluorobenzene	114	7.239	7.236	0.003	95	1114691	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	85	1294469	49.1	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	948637	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	93	438559	46.2	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	526749	50.0	

Report Date: 13-Dec-2012 17:44:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-03.D		
Injection Date:	13-Dec-2012 17:17:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-7	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	15
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

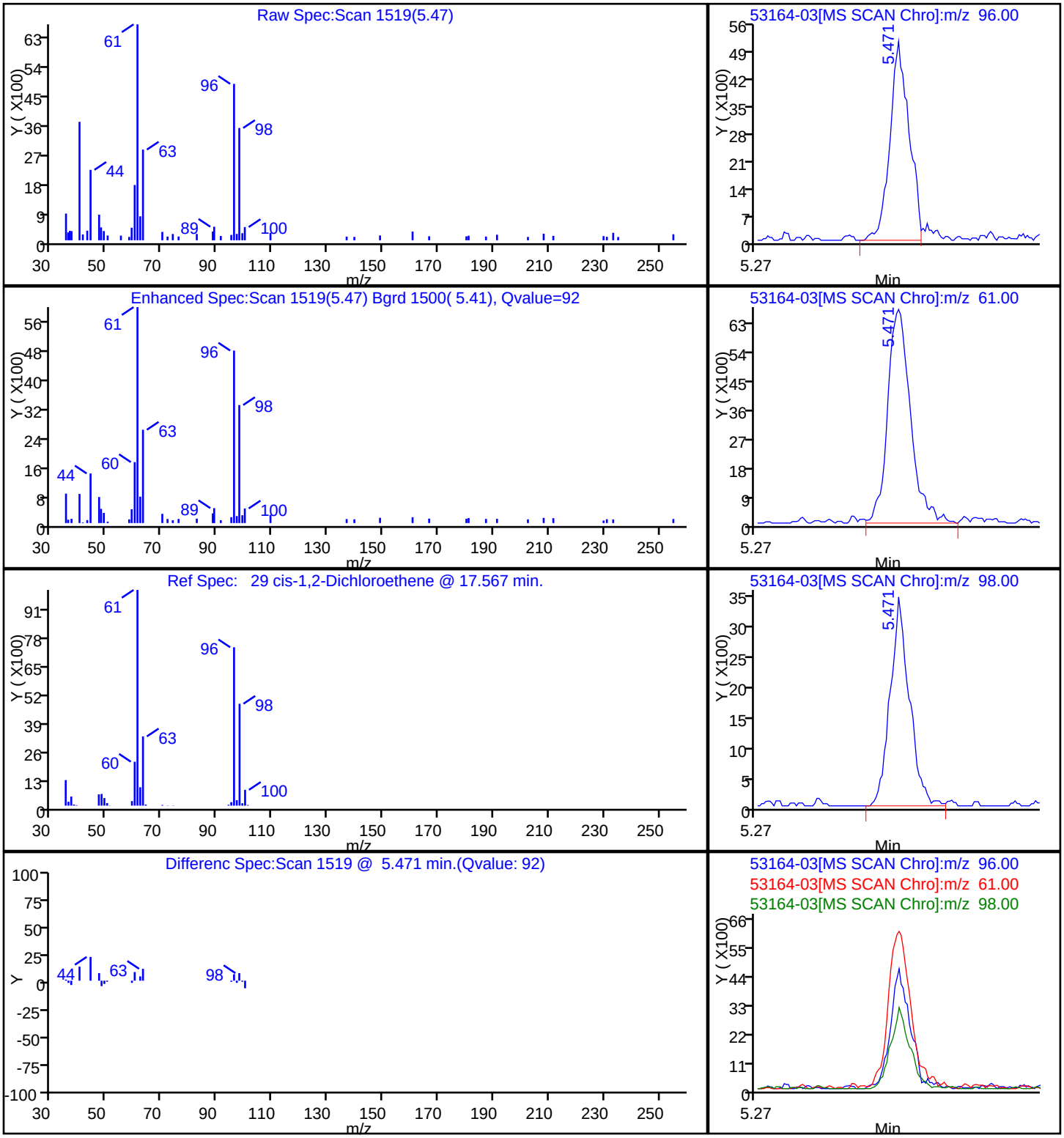


Report Date: 13-Dec-2012 17:44:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-03.D		
Injection Date:	13-Dec-2012 17:17:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-7	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	15
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

29 cis-1,2-Dichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-5 | Lab Sample ID: 500-53164-4

Matrix: Water | Lab File ID: 53164-04.D

Analysis Method: 8260B | Date Collected: 12/11/2012 12:23

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 17:43

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	0.25	U	1.0	0.25
156-59-2	cis-1,2-Dichloroethene	0.63	J	1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	0.19	U	0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	0.10	U	0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-125
2037-26-5	Toluene-d8 (Surr)	98		75-120
460-00-4	4-Bromofluorobenzene (Surr)	94		75-120
1868-53-7	Dibromofluoromethane	99		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-04.D		
Lims ID:	500-53164-F-4	Client ID:	VLF-MW-5
Inject. Date:	13-Dec-2012 17:43:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	500-53164-F-4		
Misc. Info.:	500-0014364-016		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	16
Lims Batch ID:	172880	Lims Sample ID:	16
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 23:34:32	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK022		

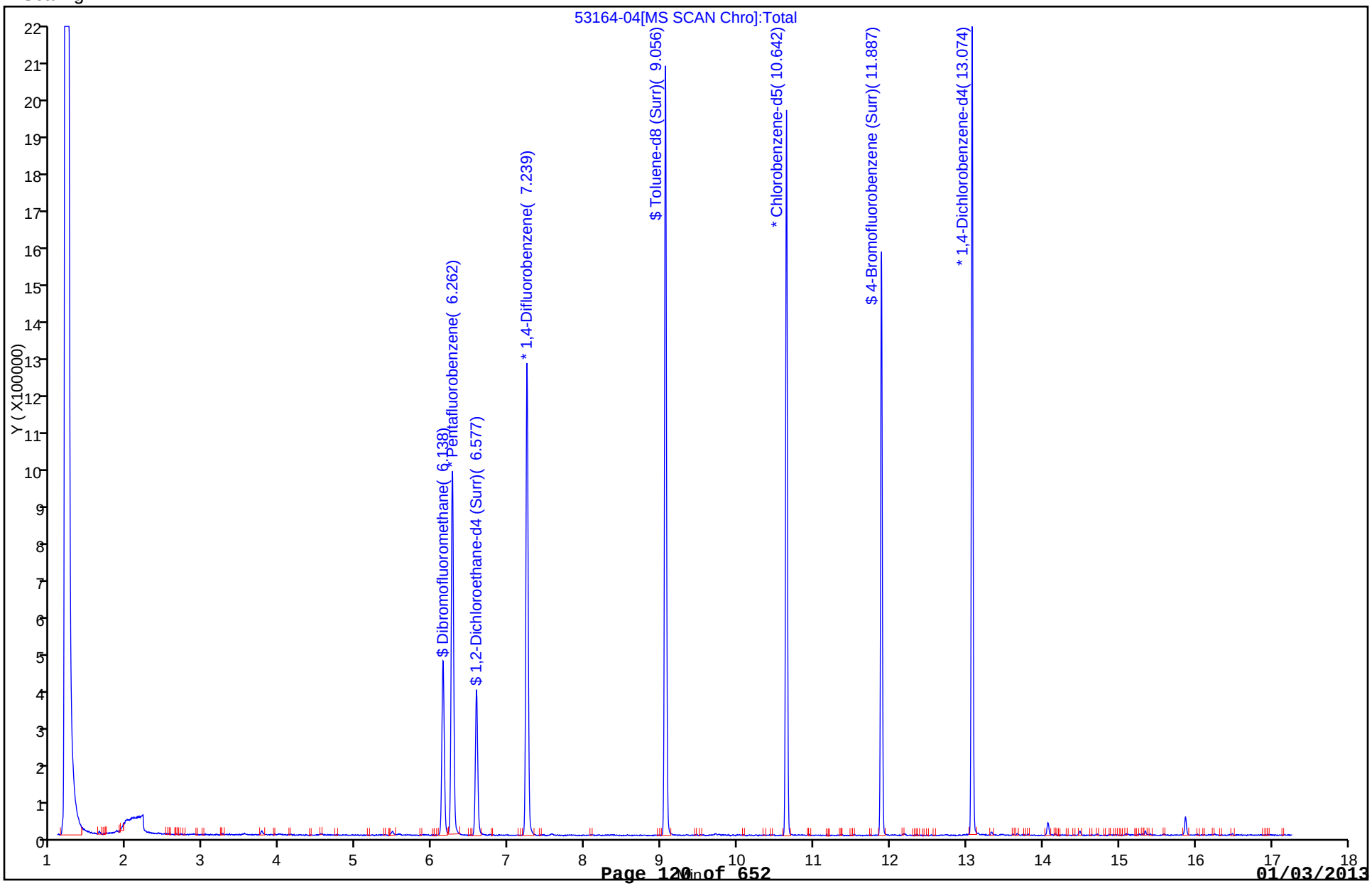
First Level Reviewer: alikpalae Date: 14-Dec-2012 15:17:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
29 cis-1,2-Dichloroethene	96	5.479	5.468	0.011	80	4499	0.6336	
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	65	306420	49.3	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	92	779549	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	286742	47.0	
* 49 1,4-Difluorobenzene	114	7.239	7.236	0.003	95	1092631	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	86	1271015	49.1	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	945367	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	92	445534	47.1	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	517518	50.0	

Report Date: 14-Dec-2012 15:17:39 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-04.D		
Injection Date:	13-Dec-2012 17:43:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-5	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	16
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

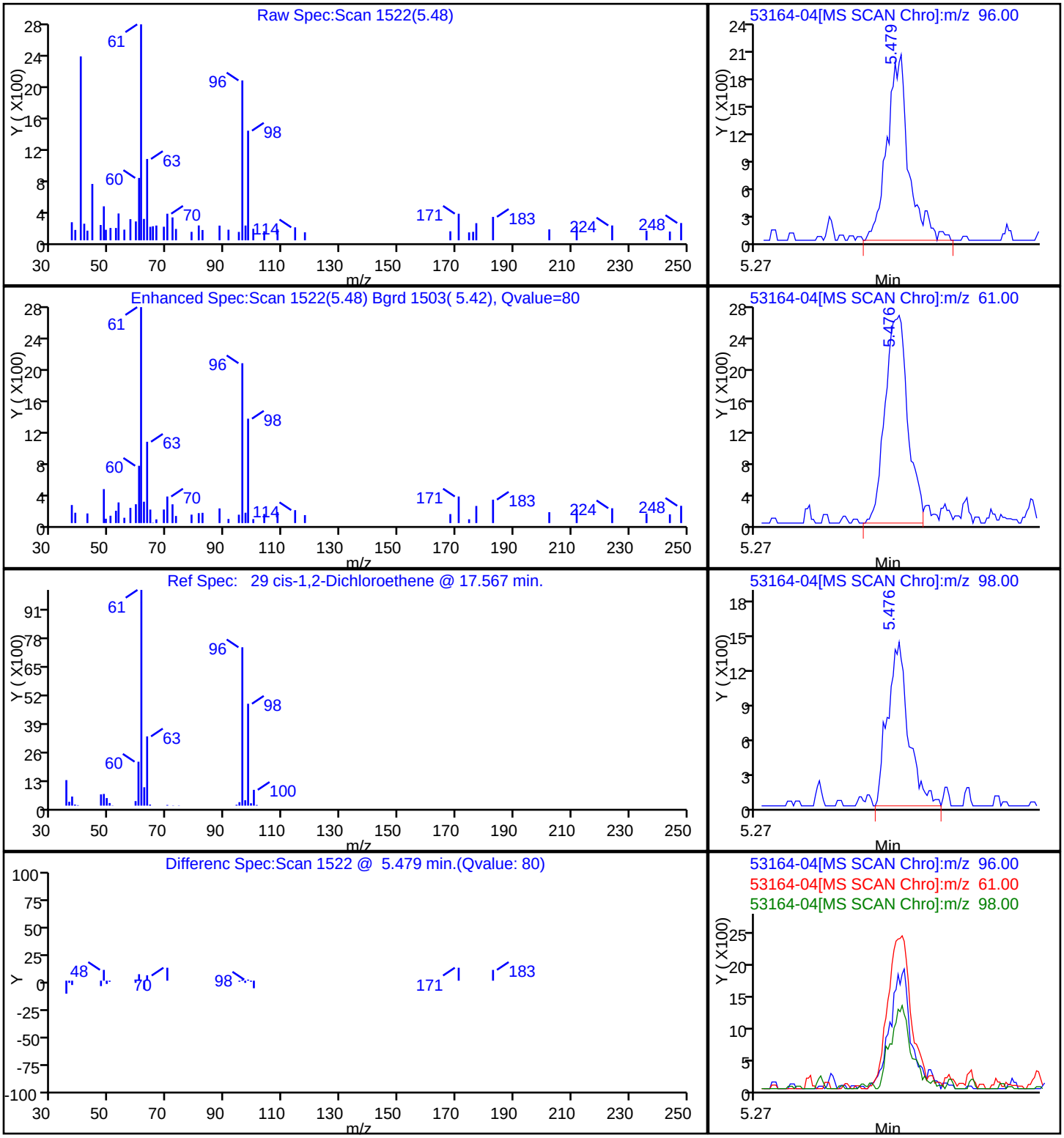


Report Date: 14-Dec-2012 15:17:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-04.D		
Injection Date:	13-Dec-2012 17:43:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-5	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	16
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

29 cis-1,2-Dichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-2 | Lab Sample ID: 500-53164-5

Matrix: Water | Lab File ID: 53164-05.D

Analysis Method: 8260B | Date Collected: 12/11/2012 14:20

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 18:09

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	0.25	U	1.0	0.25
156-59-2	cis-1,2-Dichloroethene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	0.56		0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	0.10	U	0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-125
2037-26-5	Toluene-d8 (Surr)	97		75-120
460-00-4	4-Bromofluorobenzene (Surr)	92		75-120
1868-53-7	Dibromofluoromethane	96		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-05.D		
Lims ID:	500-53164-F-5	Client ID:	VLF-MW-2
Inject. Date:	13-Dec-2012 18:09:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	500-53164-F-5		
Misc. Info.:	500-0014364-017		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	17
Lims Batch ID:	172880	Lims Sample ID:	17
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 23:34:32	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK022		

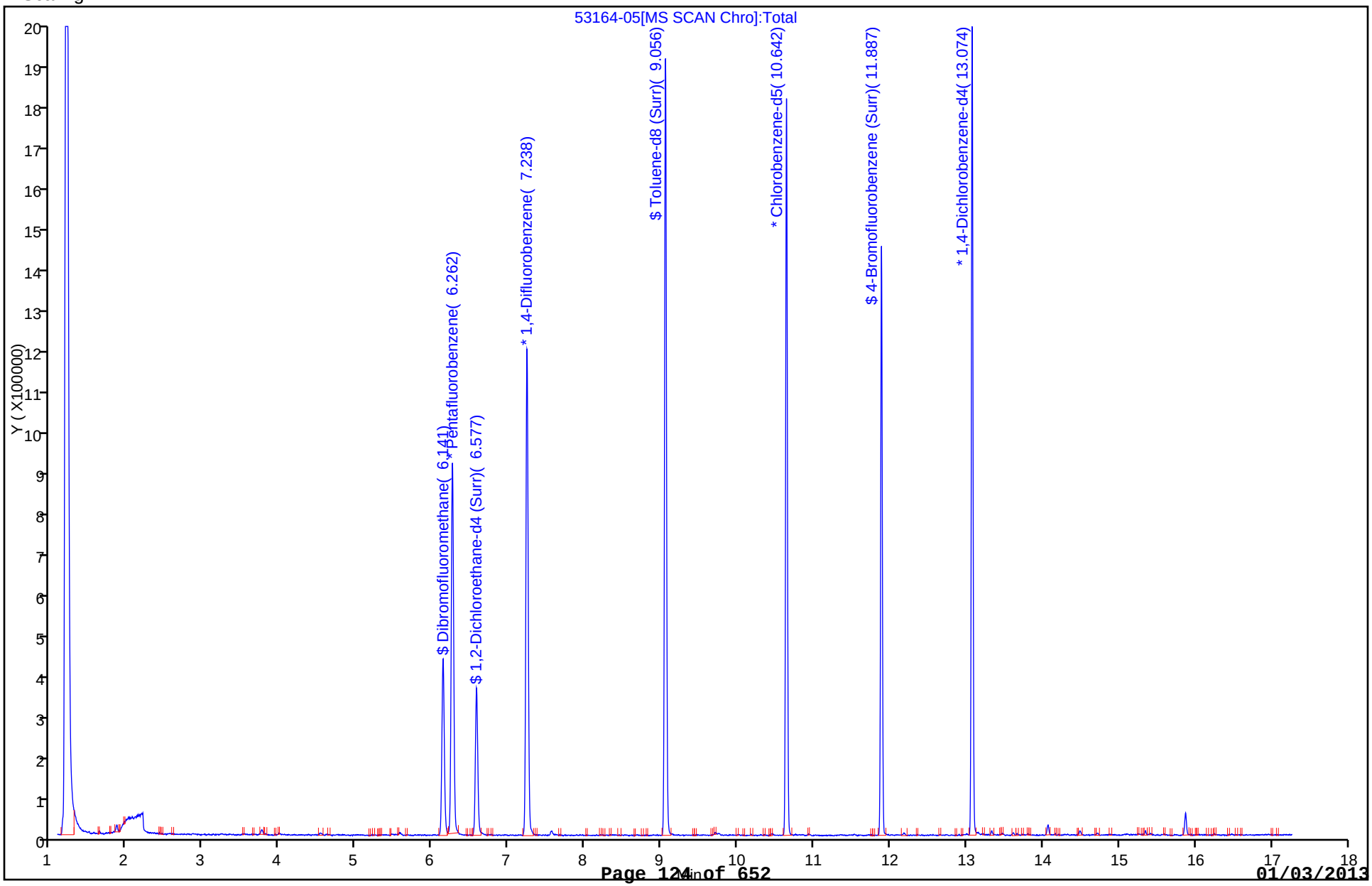
First Level Reviewer: alikpalae Date: 14-Dec-2012 15:18:01

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 37 Dibromofluoromethane	113	6.141	6.138	0.003	70	288985	48.2	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	92	751321	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	278084	47.2	
* 49 1,4-Difluorobenzene	114	7.238	7.236	0.002	96	1053863	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	53	4086	0.5619	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	85	1212822	48.6	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	888298	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	410854	46.2	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	487703	50.0	

Report Date: 14-Dec-2012 15:18:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-05.D		
Injection Date:	13-Dec-2012 18:09:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-2	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	17
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			

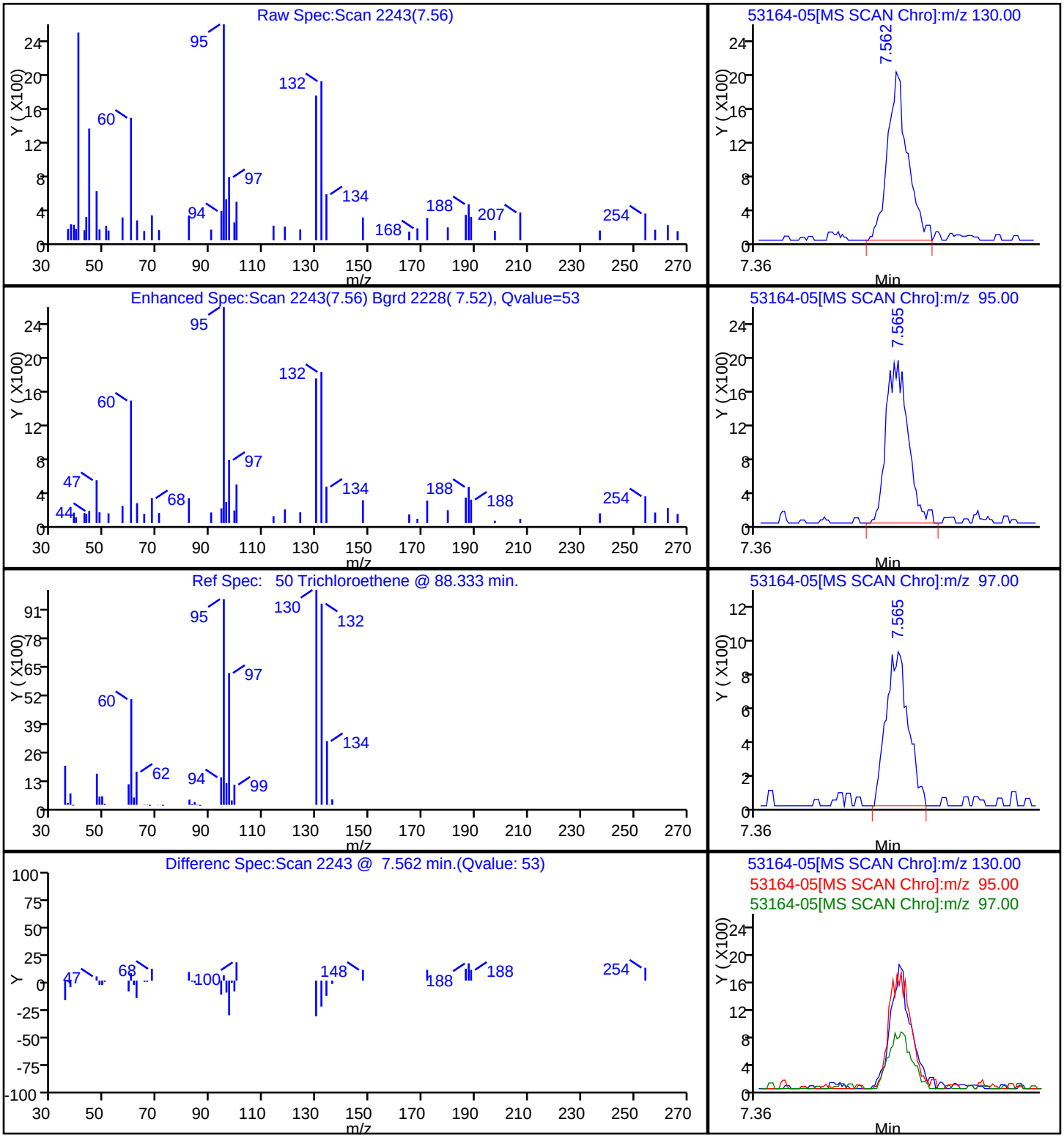


Report Date: 14-Dec-2012 15:18:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-05.D		
Injection Date:	13-Dec-2012 18:09:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-2	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	17
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

50 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 500-53164-6

Matrix: Water | Lab File ID: 53164-06.D

Analysis Method: 8260B | Date Collected: 12/11/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 13:50

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	0.25	U	1.0	0.25
156-59-2	cis-1,2-Dichloroethene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	0.19	U	0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	0.10	U	0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		75-125
2037-26-5	Toluene-d8 (Surr)	99		75-120
460-00-4	4-Bromofluorobenzene (Surr)	95		75-120
1868-53-7	Dibromofluoromethane	94		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-06.D		
Lims ID:	500-53164-G-6	Client ID:	TRIP BLANK
Inject. Date:	13-Dec-2012 13:50:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	500-53164-G-6		
Misc. Info.:	500-0014364-007		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	172880	Lims Sample ID:	7
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 13:11:10	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK011		

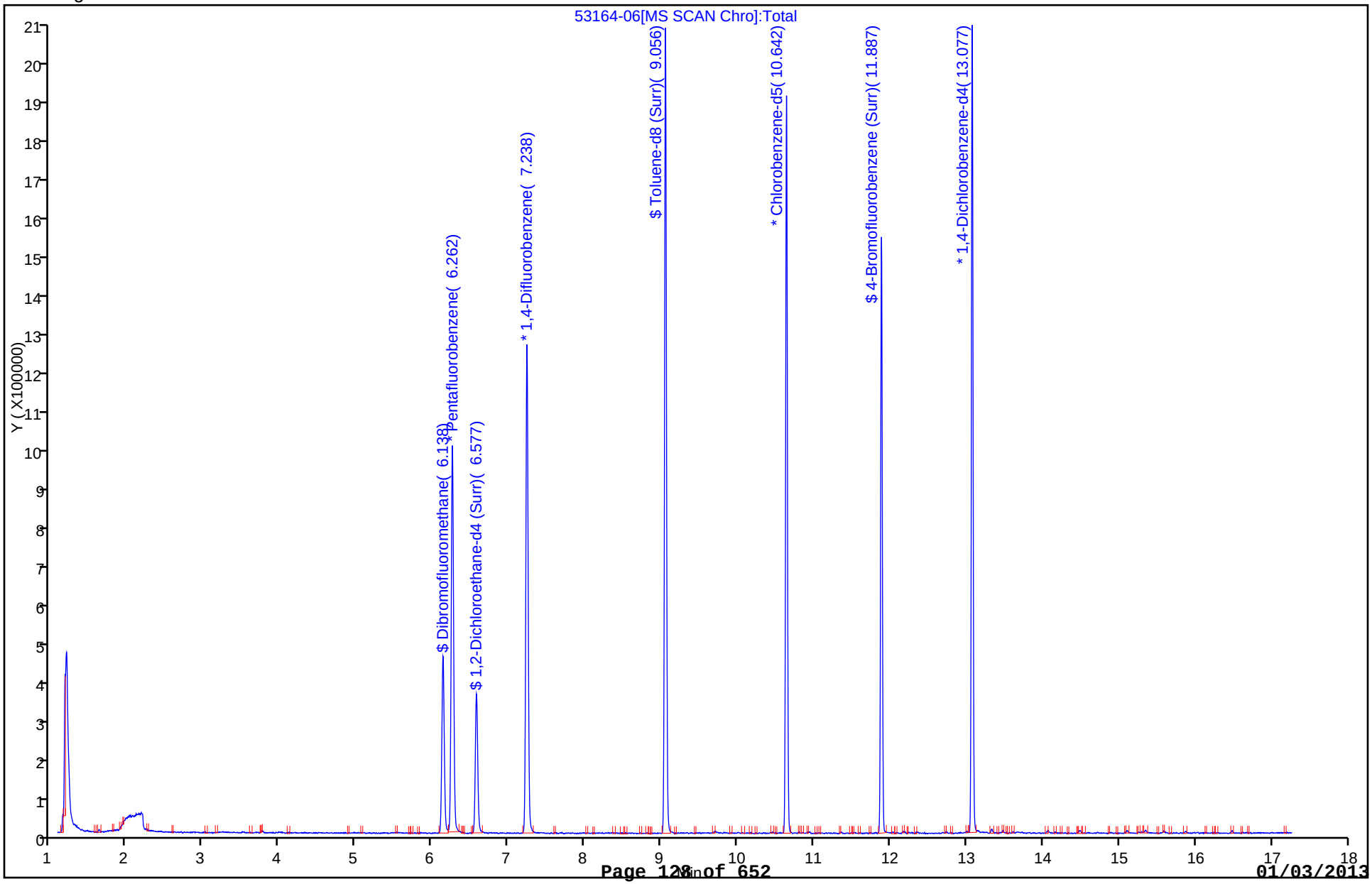
First Level Reviewer: alikpalae Date: 13-Dec-2012 14:20:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	66	304855	46.9	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	92	814359	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	276573	44.2	
* 49 1,4-Difluorobenzene	114	7.238	7.236	0.002	96	1120410	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	85	1306357	49.3	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	946779	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	450293	47.5	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	519888	50.0	

Report Date: 13-Dec-2012 14:20:12 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-06.D		
Injection Date:	13-Dec-2012 13:50:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	TRIP BLANK	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	7
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-172615/2	22I1211A.D
Level 2	STD02 500-172615/3	22I1211B.D
Level 3	STD03 500-172615/4	22I1211C.D
Level 4	STD04 500-172615/5	22I1211D.D
Level 5	STD05 500-172615/6	22I1211E.D
Level 6	STD06 500-172615/7	22I1211F.D
Level 7	STD07 500-172615/8	22I1211G.D
Level 8	STD08 500-172615/9	22I1211H.D
Level 9	STD09 500-172615/10	22I1211I.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		B	M1	M2								
Dichlorodifluoromethane	0.5798	0.6445 0.5632	0.5310 0.5150	0.4776 0.5364	0.4883	Ave		0.5420			0.0100	9.9		15.0			
Chloromethane	0.7182	0.8256 0.7230	0.7243 0.6810	0.6267 0.7012	0.6890	Ave		0.7111			0.1000	7.9		15.0			
Vinyl chloride	0.6665 0.6517	0.7420 0.6618	0.6103 0.6041	0.5612 0.6323	0.6130	Ave		0.6381			0.0100	8.0		15.0			
Bromomethane	0.2077	0.1659 0.2258	0.2203 0.2110	0.1716 0.2234	0.1726	Ave		0.1998			0.0100	13.0		15.0			
Chloroethane	0.3369	0.4113 0.3333	0.3289 0.3044	0.3175 0.3069	0.3315	Ave		0.3338			0.0100	10.0		15.0			
Dichlorofluoromethane	0.9817	1.1276 1.0066	1.0357 0.9437	0.9343 0.9571	1.0079	Ave		0.9993			0.0100	6.3		15.0			
Acetone	0.0614	+++++ 0.0672	+++++ 0.0690	0.0554 0.0671	0.0635	Ave		0.0639			0.0100	7.8		15.0			
Trichlorofluoromethane	0.8320	0.9712 0.8249	0.8348 0.7635	0.7738 0.7796	0.8319	Ave		0.8265			0.0100	7.9		15.0			
Acrolein	0.0392	0.0331 0.0429	0.0421 0.0450	0.0314 0.0450	0.0388	Ave		0.0397			0.0010	13.0		15.0			
1,1-Dichloroethene	0.3938	0.4212 0.3925	0.4280 0.3935	0.3669 0.4040	0.4008	Ave		0.4001			0.0100	4.7		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4739	0.5610 0.4784	0.4940 0.4696	0.4511 0.4829	0.4785	Ave		0.4862			0.0100	6.7		15.0			
Methylene Chloride	0.3719	+++++ 0.3777	0.4011 0.3682	0.3629 0.3859	0.4004	Ave		0.3812			0.0100	4.0		15.0			
Carbon disulfide	1.5313	1.5962 1.5882	1.3713 1.4767	1.3219 1.4979	1.4559	Ave		1.4799			0.0100	6.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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		B	M1	M2								
Acetonitrile	0.0262	0.0371 0.0281	0.0333 0.0299	0.0243 0.0295	0.0295	Ave		0.0297			0.0010	13.0		15.0			
Acrylonitrile	0.0764	0.0750 0.0821	0.0912 0.0846	0.0677 0.0849	0.0823	Ave		0.0805			0.0010	9.0		15.0			
trans-1,2-Dichloroethene	0.4456	0.4780 0.4511	0.4617 0.4430	0.4088 0.4552	0.4560	Ave		0.4499			0.0100	4.4		15.0			
2-Butanone (MEK)	0.0908	+++++ 0.0953	+++++ 0.0973	0.0823 0.0970	0.0919	Ave		0.0924			0.0100	6.1		15.0			
Methyl tert-butyl ether	0.7230	0.7977 0.7592	0.6853 0.7369	0.6794 0.7564	0.7577	Ave		0.7369			0.0100	5.4		15.0			
Vinyl acetate	0.6107	+++++ 0.6494	0.6129 0.6338	0.5650 0.6642	0.6423	Ave		0.6255			0.0100	5.2		15.0			
Tetrahydrofuran	0.0583	+++++ 0.0572	+++++ 0.0571	0.0538 0.0595	0.0611	Ave		0.0578			0.0100	4.2		15.0			
1,1-Dichloroethane	0.8749	0.9850 0.8925	0.8255 0.8704	0.8099 0.9084	0.9189	Ave		0.8857			0.1000	6.2		15.0			
2,2-Dichloropropane	0.7243	0.8126 0.7285	0.7184 0.7200	0.6702 0.7474	0.7515	Ave		0.7341			0.0100	5.5		15.0			
cis-1,2-Dichloroethene	0.4508	0.5106 0.4630	0.4202 0.4488	0.4186 0.4652	0.4663	Ave		0.4554			0.0100	6.4		15.0			
Propionitrile	0.0191	0.0230 0.0201	0.0200 0.0217	0.0163 0.0219	0.0205	Ave		0.0203			0.0010	10.0		15.0			
Bromochloromethane	0.1747	0.2191 0.1747	0.1652 0.1737	0.1606 0.1772	0.1825	Ave		0.1785			0.0100	10.0		15.0			
Chloroform	0.7195	0.7988 0.7370	0.7465 0.7200	0.6742 0.7434	0.7604	Ave		0.7375			0.0100	4.9		15.0			
1,1,1-Trichloroethane	0.7317	0.8087 0.7368	0.7248 0.7320	0.6839 0.7583	0.7390	Ave		0.7394			0.0100	4.7		15.0			
Carbon tetrachloride	0.4883	0.4978 0.4750	0.4990 0.4767	0.4486 0.4948	0.4871	Ave		0.4834			0.0100	3.4		15.0			
1,1-Dichloropropene	0.6479	0.7318 0.6478	0.5960 0.6435	0.5898 0.6685	0.6649	Ave		0.6488			0.0100	6.9		15.0			
Benzene	1.2306 1.2277	1.3508 1.2183	1.2179 1.1975	1.1306 1.2355	1.2550	Ave		1.2293			0.0100	4.7		15.0			
1,2-Dichloroethane	0.3558	0.3835 0.3552	0.3413 0.3521	0.3151 0.3644	0.3618	Ave		0.3536			0.0100	5.6		15.0			
4-Methyl-2-pentanone (MIBK)	0.1535	+++++ 0.1552	+++++ 0.1604	0.1384 0.1580	0.1561	Ave		0.1536			0.0100	5.1		15.0			
2-Hexanone	0.1220	+++++ 0.1257	+++++ 0.1256	0.1035 0.1271	0.1187	Ave		0.1204			0.0100	7.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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		B	M1	M2								
Trichloroethene	0.3583 0.3434	0.3824 0.3325	0.3356 0.3291	0.3315 0.3406	0.3516	Ave		0.3450			0.0100	4.9		15.0			
1,2-Dichloropropane	0.3130	0.3550 0.3110	0.3030 0.3089	0.2849 0.3197	0.3264	Ave		0.3152			0.0100	6.4		15.0			
Dibromomethane	0.1238	0.1457 0.1238	0.1306 0.1224	0.1153 0.1261	0.1288	Ave		0.1271			0.0100	6.9		15.0			
Bromodichloromethane	0.3533	0.3875 0.3599	0.3507 0.3552	0.3319 0.3686	0.3726	Ave		0.3600			0.0100	4.6		15.0			
2-Chloroethyl vinyl ether	0.1015	0.1052 0.1078	0.1095 0.1021	0.1020 0.1054	0.1096	Ave		0.1054			0.0100	3.2		15.0			
cis-1,3-Dichloropropene	0.4033	0.4257 0.4109	0.4102 0.4067	0.3731 0.4210	0.4222	Ave		0.4091			0.0100	4.1		15.0			
Toluene	0.9341 0.8023	0.8388 0.8060	0.7909 0.7995	0.7458 0.8258	0.8161	Ave		0.8177			0.0100	6.2		15.0			
trans-1,3-Dichloropropene	0.3304	0.3943 0.3383	0.3221 0.3448	0.2903 0.3521	0.3412	Ave		0.3392			0.0100	8.6		15.0			
1,1,2-Trichloroethane	0.1638	0.2014 0.1667	0.1786 0.1692	0.1581 0.1728	0.1681	Ave		0.1723			0.0100	7.7		15.0			
Tetrachloroethene	0.4446	0.5511 0.4384	0.4482 0.4251	0.4255 0.4400	0.4568	Ave		0.4537			0.0100	9.0		15.0			
1,3-Dichloropropane	0.3407	0.3703 0.3413	0.3719 0.3399	0.3207 0.3540	0.3542	Ave		0.3491			0.0100	4.9		15.0			
Dibromochloromethane	0.2630	0.2702 0.2690	0.2371 0.2675	0.2274 0.2786	0.2693	Ave		0.2603			0.0100	6.9		15.0			
1,2-Dibromoethane	0.1572	0.2035 0.1634	0.1624 0.1626	0.1445 0.1665	0.1607	Ave		0.1651			0.0100	10.0		15.0			
Chlorobenzene	0.9949	1.1305 0.9884	1.0221 0.9670	0.9605 0.9960	1.0363	Ave		1.0120			0.3000	5.3		15.0			
1-Chlorohexane	0.6765	0.7176 0.6760	0.7070 0.6835	0.6491 0.6837	0.6984	Ave		0.6865			0.0100	3.1		15.0			
1,1,1,2-Tetrachloroethane	0.3425	0.3425 0.3461	0.3396 0.3458	0.3001 0.3585	0.3448	Ave		0.3400			0.0100	5.0		15.0			
Ethylbenzene	0.5881 0.5801	0.6023 0.5769	0.5743 0.5619	0.5326 0.5822	0.5796	Ave		0.5753			0.0100	3.4		15.0			
m&p-Xylene	1.4425 1.4534	1.5227 1.4554	1.3904 1.3960	1.3052 1.3942	1.4876	Ave		1.4275			0.0100	4.5		15.0			
o-Xylene	1.4661 1.4493	1.5830 1.4706	1.3934 1.4590	1.2932 1.5151	1.4780	Ave		1.4564			0.0100	5.5		15.0			
Styrene	1.1318	1.1505 1.1478	1.0719 1.1460	0.9871 1.1845	1.1405	Ave		1.1200			0.0100	5.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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		B	M1	M2								
Bromoform	0.1546	0.1602 0.1600	0.1366 0.1660	0.1243 0.1720	0.1553	Ave		0.1536			0.1000	10.0		15.0			
Isopropylbenzene	3.1927	3.8233 3.1639	3.3535 3.1360	3.0653 3.2790	3.4816	Ave		3.3119			0.0100	7.4		15.0			
Bromobenzene	0.6922	0.8632 0.7028	0.7552 0.6972	0.6812 0.7345	0.7730	Ave		0.7374			0.0100	8.2		15.0			
1,1,2,2-Tetrachloroethane	0.3542	0.3977 0.3640	0.4200 0.3676	0.3757 0.3874	0.4089	Ave		0.3844			0.3000	6.0		15.0			
1,2,3-Trichloropropane	0.2704	0.2771 0.2691	0.3098 0.2728	0.2652 0.2923	0.3046	Ave		0.2827			0.0100	6.1		15.0			
N-Propylbenzene	3.8858	4.4856 3.8875	4.0360 3.7881	3.6439 3.8936	4.1493	Ave		3.9712			0.0100	6.5		15.0			
4-Chlorotoluene	2.1662	2.5653 2.2029	2.2332 2.1653	2.0176 2.2760	2.3065	Ave		2.2416			0.0100	7.0		15.0			
1,3,5-Trimethylbenzene	2.6929	3.0323 2.7638	2.6976 2.7107	2.4978 2.8237	2.9026	Ave		2.7652			0.0100	5.8		15.0			
2-Chlorotoluene	2.5627	3.0140 2.6413	2.6145 2.6089	2.4222 2.7193	2.7174	Ave		2.6625			0.0100	6.4		15.0			
tert-Butylbenzene	2.4553	2.9534 2.4418	2.5783 2.4420	2.3626 2.5773	2.6552	Ave		2.5582			0.0100	7.3		15.0			
1,2,4-Trimethylbenzene	2.6381	2.9651 2.7234	2.7353 2.6840	2.3710 2.8189	2.7710	Ave		2.7134			0.0100	6.3		15.0			
sec-Butylbenzene	3.6796	4.2594 3.6591	3.7758 3.6577	3.5493 3.7738	3.9075	Ave		3.7828			0.0100	5.8		15.0			
1,3-Dichlorobenzene	1.4814	1.8548 1.5187	1.6516 1.5128	1.4214 1.5667	1.5907	Ave		1.5748			0.0100	8.4		15.0			
p-Isopropyltoluene	3.1719	3.7168 3.2121	3.3643 3.1807	2.9943 3.2836	3.3705	Ave		3.2868			0.0100	6.4		15.0			
1,4-Dichlorobenzene	1.4798	1.7715 1.5043	1.6564 1.4758	1.4603 1.5340	1.5651	Ave		1.5559			0.0100	6.9		15.0			
1,2-Dichlorobenzene	1.2786	1.4806 1.2876	1.3414 1.2674	1.2093 1.3183	1.4033	Ave		1.3233			0.0100	6.4		15.0			
n-Butylbenzene	2.8772	3.1126 2.9149	2.8700 2.9548	2.6461 3.0267	2.9480	Ave		2.9188			0.0100	4.7		15.0			
1,2-Dibromo-3-Chloropropane	0.0613	0.0631 0.0622	0.0851 0.0635	0.0599 0.0659	0.0678	Ave		0.0661			0.0100	12.0		15.0			
1,2,4-Trichlorobenzene	0.8675	0.9867 0.9149	0.8758 0.9059	0.8191 0.9063	0.8999	Ave		0.8970			0.0100	5.3		15.0			
Hexachlorobutadiene	0.7318	0.9143 0.6946	0.7960 0.7407	0.7318 0.7100	0.7351	Ave		0.7568			0.0100	9.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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		B	M1	M2								
Naphthalene	0.9350	1.0319 0.9776	0.9651 1.0179	0.8910 1.0659	1.0003	Ave		0.9856			0.0100	5.7		15.0			
1,2,3-Trichlorobenzene	0.6972	0.7942 0.7092	0.6905 0.7197	0.6629 0.7238	0.7392	Ave		0.7171			0.0100	5.4		15.0			
Dibromofluoromethane	0.3747	0.4105	0.3974	0.4034	0.4088	Ave		0.3990			0.0100	3.6		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2681	0.2786	0.2783	0.2818	0.2898	Ave		0.2793			0.0100	2.8		15.0			
Toluene-d8 (Surr)	1.1353	1.2008	1.1689	1.1817	1.2317	Ave		1.1837			0.0100	3.0		15.0			
4-Bromofluorobenzene (Surr)	0.4792	0.5117	0.5010	0.5085	0.5022	Ave		0.5005			0.0100	2.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-172615/2	22I1211A.D
Level 2	STD02 500-172615/3	22I1211B.D
Level 3	STD03 500-172615/4	22I1211C.D
Level 4	STD04 500-172615/5	22I1211D.D
Level 5	STD05 500-172615/6	22I1211E.D
Level 6	STD06 500-172615/7	22I1211F.D
Level 7	STD07 500-172615/8	22I1211G.D
Level 8	STD08 500-172615/9	22I1211H.D
Level 9	STD09 500-172615/10	22I1211I.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	PFB	Ave	408706	8283 762307	14019 1110898	34084 1572519	128973	50.0	1.00 100	2.00 150	5.00 200	20.0
Chloromethane	PFB	Ave	506217	10611 978702	19121 1468998	44725 2055922	181982	50.0	1.00 100	2.00 150	5.00 200	20.0
Vinyl chloride	PFB	Ave	2072 459341	9537 895799	16111 1302949	40052 1853836	161885	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
Bromomethane	PFB	Ave	146376	2132 305638	5817 455210	12250 654905	45578	50.0	1.00 100	2.00 150	5.00 200	20.0
Chloroethane	PFB	Ave	237436	5286 451232	8684 656528	22657 899737	87550	50.0	1.00 100	2.00 150	5.00 200	20.0
Dichlorofluoromethane	PFB	Ave	691989	14493 1362610	27342 2035639	66676 2806119	266205	50.0	1.00 100	2.00 150	5.00 200	20.0
Acetone	PFB	Ave	43292	+++++ 90934	+++++ 148822	3957 196769	16764	50.0	+++++ 100	+++++ 150	5.00 200	20.0
Trichlorofluoromethane	PFB	Ave	586466	12483 1116585	22039 1646914	55227 2285626	219705	50.0	1.00 100	2.00 150	5.00 200	20.0
Acrolein	PFB	Ave	1104663	16997 2325112	44508 3885554	89671 5276134	410157	2000	40.0 4000	80.0 6000	200 8000	800
1,1-Dichloroethene	PFB	Ave	277562	5414 531364	11300 848798	26186 1184587	105858	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	PFB	Ave	334028	7210 647515	13042 1013020	32193 1415755	126370	50.0	1.00 100	2.00 150	5.00 200	20.0
Methylene Chloride	PFB	Ave	262156	+++++ 511318	10588 794285	25901 1131397	105736	50.0	+++++ 100	2.00 150	5.00 200	20.0
Carbon disulfide	PFB	Ave	1079379	20516 2149891	36202 3185269	94343 4391617	384523	50.0	1.00 100	2.00 150	5.00 200	20.0
Acetonitrile	PFB	Ave	147511	3815 304606	7023 515971	13902 692080	62328	400	8.00 800	16.0 1200	40.0 1600	160

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Acrylonitrile	PFB	Ave	430688	7715 889127	19252 1460725	38635 1990459	173831	400	8.00 800	16.0 1200	40.0 1600	160
trans-1,2-Dichloroethene	PFB	Ave	314119	6143 610637	12190 955652	29175 1334459	120435	50.0	1.00 100	2.00 150	5.00 200	20.0
2-Butanone (MEK)	PFB	Ave	64002	+++++ 128968	+++++ 209900	5877 284336	24272	50.0	+++++ 100	+++++ 150	5.00 200	20.0
Methyl tert-butyl ether	PFB	Ave	509651	10253 1027632	18092 1589481	48485 2217547	200118	50.0	1.00 100	2.00 150	5.00 200	20.0
Vinyl acetate	PFB	Ave	430488	+++++ 879019	16181 1367143	40320 1947324	169641	50.0	+++++ 100	2.00 150	5.00 200	20.0
Tetrahydrofuran	PFB	Ave	41123	+++++ 77379	+++++ 123251	3843 174315	16127	50.0	+++++ 100	+++++ 150	5.00 200	20.0
1,1-Dichloroethane	PFB	Ave	616675	12660 1208102	21793 1877461	57801 2663163	242674	50.0	1.00 100	2.00 150	5.00 200	20.0
2,2-Dichloropropane	PFB	Ave	510518	10444 986077	18966 1552961	47829 2191135	198464	50.0	1.00 100	2.00 150	5.00 200	20.0
cis-1,2-Dichloroethene	PFB	Ave	317732	6562 626799	11093 968176	29875 1363967	123154	50.0	1.00 100	2.00 150	5.00 200	20.0
Propionitrile	DFB	Ave	150541	3274 311165	5826 533857	13049 726579	61580	400	8.00 800	16.0 1200	40.0 1600	160
Bromochloromethane	PFB	Ave	123109	2816 236461	4362 374570	11462 519660	48207	50.0	1.00 100	2.00 150	5.00 200	20.0
Chloroform	PFB	Ave	507134	10267 997634	19708 1553050	48119 2179601	200834	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1,1-Trichloroethane	PFB	Ave	515733	10394 997347	19135 1578989	48811 2223267	195166	50.0	1.00 100	2.00 150	5.00 200	20.0
Carbon tetrachloride	DFB	Ave	481514	8845 918644	18161 1463204	44839 2051034	182447	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1-Dichloropropene	PFB	Ave	456667	9406 876844	15734 1388026	42090 1960009	175593	50.0	1.00 100	2.00 150	5.00 200	20.0
Benzene	DFB	Ave	5292 1210657	24000 2356179	44324 3675431	113004 5120985	470128	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dichloroethane	DFB	Ave	350802	6813 686980	12420 1080708	31493 1510261	135519	50.0	1.00 100	2.00 150	5.00 200	20.0
4-Methyl-2-pentanone (MIBK)	DFB	Ave	151375	+++++ 300182	+++++ 492445	13833 654734	58466	50.0	+++++ 100	+++++ 150	5.00 200	20.0
2-Hexanone	CBZ	Ave	101953	+++++ 206593	+++++ 337483	8872 453433	37503	50.0	+++++ 100	+++++ 150	5.00 200	20.0
Trichloroethene	DFB	Ave	1541 338598	6794 643029	12213 1009984	33134 1411923	131705	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dichloropropane	DFB	Ave	308626	6308 601403	11028 948132	28481 1325238	122258	50.0	1.00 100	2.00 150	5.00 200	20.0

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dibromomethane	DFB	Ave	122106	2589 239384	4753 375807	11529 522887	48251	50.0	1.00 100	2.00 150	5.00 200	20.0
Bromodichloromethane	DFB	Ave	348406	6884 696059	12765 1090230	33178 1527793	139566	50.0	1.00 100	2.00 150	5.00 200	20.0
2-Chloroethyl vinyl ether	DFB	Ave	100134	1869 208398	3984 313500	10192 436785	41067	50.0	1.00 100	2.00 150	5.00 200	20.0
cis-1,3-Dichloropropene	DFB	Ave	397656	7564 794708	14930 1248175	37294 1745247	158135	50.0	1.00 100	2.00 150	5.00 200	20.0
Toluene	DFB	Ave	4017 791155	14904 1558816	28786 2453857	74548 3422834	305710	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
trans-1,3-Dichloropropene	DFB	Ave	325796	7005 654311	11724 1058276	29021 1459268	127802	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1,2-Trichloroethane	DFB	Ave	161526	3579 322360	6500 519398	15804 716065	62968	50.0	1.00 100	2.00 150	5.00 200	20.0
Tetrachloroethene	CBZ	Ave	371408	8289 720453	14024 1142505	36478 1570157	144290	50.0	1.00 100	2.00 150	5.00 200	20.0
1,3-Dichloropropane	CBZ	Ave	284612	5569 560890	11637 913572	27497 1263367	111881	50.0	1.00 100	2.00 150	5.00 200	20.0
Dibromochloromethane	CBZ	Ave	219735	4064 442108	7418 718959	19500 994298	85045	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dibromoethane	DFB	Ave	154974	3616 316106	5912 499079	14445 690159	60214	50.0	1.00 100	2.00 150	5.00 200	20.0
Chlorobenzene	CBZ	Ave	831189	17003 1624419	31983 2599260	82345 3554021	327328	50.0	1.00 100	2.00 150	5.00 200	20.0
1-Chlorohexane	PFB	Ave	476816	9223 915102	18665 1474279	46324 2004578	184447	50.0	1.00 100	2.00 150	5.00 200	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	286131	5151 568808	10625 929412	25733 1279270	108914	50.0	1.00 100	2.00 150	5.00 200	20.0
Ethylbenzene	CBZ	Ave	2120 484613	9059 948132	17971 1510230	45661 2077566	183060	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
m&p-Xylene	CBZ	Ave	10400 2428374	45804 4783893	87017 7504852	223793 9950024	939704	0.500 100	2.00 200	4.00 300	10.0 400	40.0
o-Xylene	CBZ	Ave	5285 1210753	23810 2416819	43602 3921614	110873 5406441	466833	0.250 50.0	1.00 100	2.00 150	5.00 200	20.0
Styrene	CBZ	Ave	945512	17304 1886331	33541 3080454	84628 4226631	360216	50.0	1.00 100	2.00 150	5.00 200	20.0
Bromoform	CBZ	Ave	129169	2410 263003	4275 446109	10660 613724	49043	50.0	1.00 100	2.00 150	5.00 200	20.0
Isopropylbenzene	DCB	Ave	1601454	31324 3109566	57244 5106365	148746 6881199	610310	50.0	1.00 100	2.00 150	5.00 200	20.0
Bromobenzene	DCB	Ave	347188	7072 690763	12892 1135272	33053 1541345	135512	50.0	1.00 100	2.00 150	5.00 200	20.0

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1,2,2-Tetrachloroethane	DCB	Ave	177658	3258 357760	7169 598529	18231 812983	71670	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2,3-Trichloropropane	DCB	Ave	135614	2270 264488	5288 444171	12868 613409	53399	50.0	1.00 100	2.00 150	5.00 200	20.0
N-Propylbenzene	DCB	Ave	1949080	36750 3820722	68894 6168362	176823 8171167	727359	50.0	1.00 100	2.00 150	5.00 200	20.0
4-Chlorotoluene	DCB	Ave	1086544	21017 2165096	38120 3525867	97903 4776401	404326	50.0	1.00 100	2.00 150	5.00 200	20.0
1,3,5-Trimethylbenzene	DCB	Ave	1350744	24843 2716376	46048 4413867	121204 5925708	508814	50.0	1.00 100	2.00 150	5.00 200	20.0
2-Chlorotoluene	DCB	Ave	1285442	24693 2595965	44629 4248167	117536 5706737	476349	50.0	1.00 100	2.00 150	5.00 200	20.0
tert-Butylbenzene	DCB	Ave	1231564	24197 2399839	44012 3976419	114646 5408653	465442	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2,4-Trimethylbenzene	DCB	Ave	1323232	24293 2676625	46692 4370483	115053 5915680	485753	50.0	1.00 100	2.00 150	5.00 200	20.0
sec-Butylbenzene	DCB	Ave	1845685	34897 3596271	64452 5955880	172232 7919600	684971	50.0	1.00 100	2.00 150	5.00 200	20.0
1,3-Dichlorobenzene	DCB	Ave	743079	15196 1492625	28192 2463360	68974 3287950	278836	50.0	1.00 100	2.00 150	5.00 200	20.0
p-Isopropyltoluene	DCB	Ave	1590983	30451 3156888	57429 5179163	145300 6891004	590843	50.0	1.00 100	2.00 150	5.00 200	20.0
1,4-Dichlorobenzene	DCB	Ave	742273	14514 1478508	28274 2403110	70862 3219268	274358	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dichlorobenzene	DCB	Ave	641352	12130 1265519	22897 2063725	58683 2766492	245994	50.0	1.00 100	2.00 150	5.00 200	20.0
n-Butylbenzene	DCB	Ave	1443162	25501 2864857	48990 4811328	128404 6351852	516775	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	30736	517 61117	1453 103368	2909 138335	11888	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2,4-Trichlorobenzene	DCB	Ave	435120	8084 899145	14950 1475044	39749 1901927	157753	50.0	1.00 100	2.00 150	5.00 200	20.0
Hexachlorobutadiene	DCB	Ave	367053	7491 682660	13587 1206171	35512 1489923	128859	50.0	1.00 100	2.00 150	5.00 200	20.0
Naphthalene	DCB	Ave	469003	8454 960821	16474 1657420	43237 2236810	175344	50.0	1.00 100	2.00 150	5.00 200	20.0
1,2,3-Trichlorobenzene	DCB	Ave	349729	6507 697002	11786 1171916	32167 1518870	129572	50.0	1.00 100	2.00 150	5.00 200	20.0
Dibromofluoromethane	PFB	Ave	264099	555702	857139	1182785	107966	50.0	100	150	200	20.0
1,2-Dichloroethane-d4 (Surr)	DFB	Ave	264333	538799	854290	1167924	108560	50.0	100	150	200	20.0

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

Lab Name: TestAmerica Chicago Job No.: 500-53164-1 Analy Batch No.: 172615

SDG No.:

Instrument ID: CMS22 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 14:23 Calibration End Date: 12/11/2012 18:09 Calibration ID: 10830

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Toluene-d8 (Surr)	DFB	Ave	1119518	2322467	3587473	4898132	461399	50.0	100	150	200	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	400320	840950	1346757	1814509	158632	50.0	100	150	200	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211A.D		
Lims ID:	STD01	Client ID:	
Inject. Date:	11-Dec-2012 14:23:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	STD01		
Misc. Info.:	500-0014322-002		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	172615	Lims Sample ID:	2
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:36:48	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:36:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.663	1.657	0.006	48	2072	0.2612	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	621710	50.0	
45 Benzene	78	6.658	6.658	0.0	76	5292	0.2503	
* 49 1,4-Difluorobenzene	114	7.239	7.239	0.0	96	860102	50.0	
50 Trichloroethene	130	7.551	7.562	-0.011	18	1541	0.2597	M
62 Toluene	92	9.131	9.131	0.0	65	4017	0.2856	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	90	720952	50.0	
75 Ethylbenzene	106	10.809	10.809	0.0	78	2120	0.2556	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	10400	0.5053	
77 o-Xylene	91	11.347	11.349	-0.002	79	5285	0.2517	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	391654	50.0	
S 114 Xylenes, Total	100				0		0.7569	

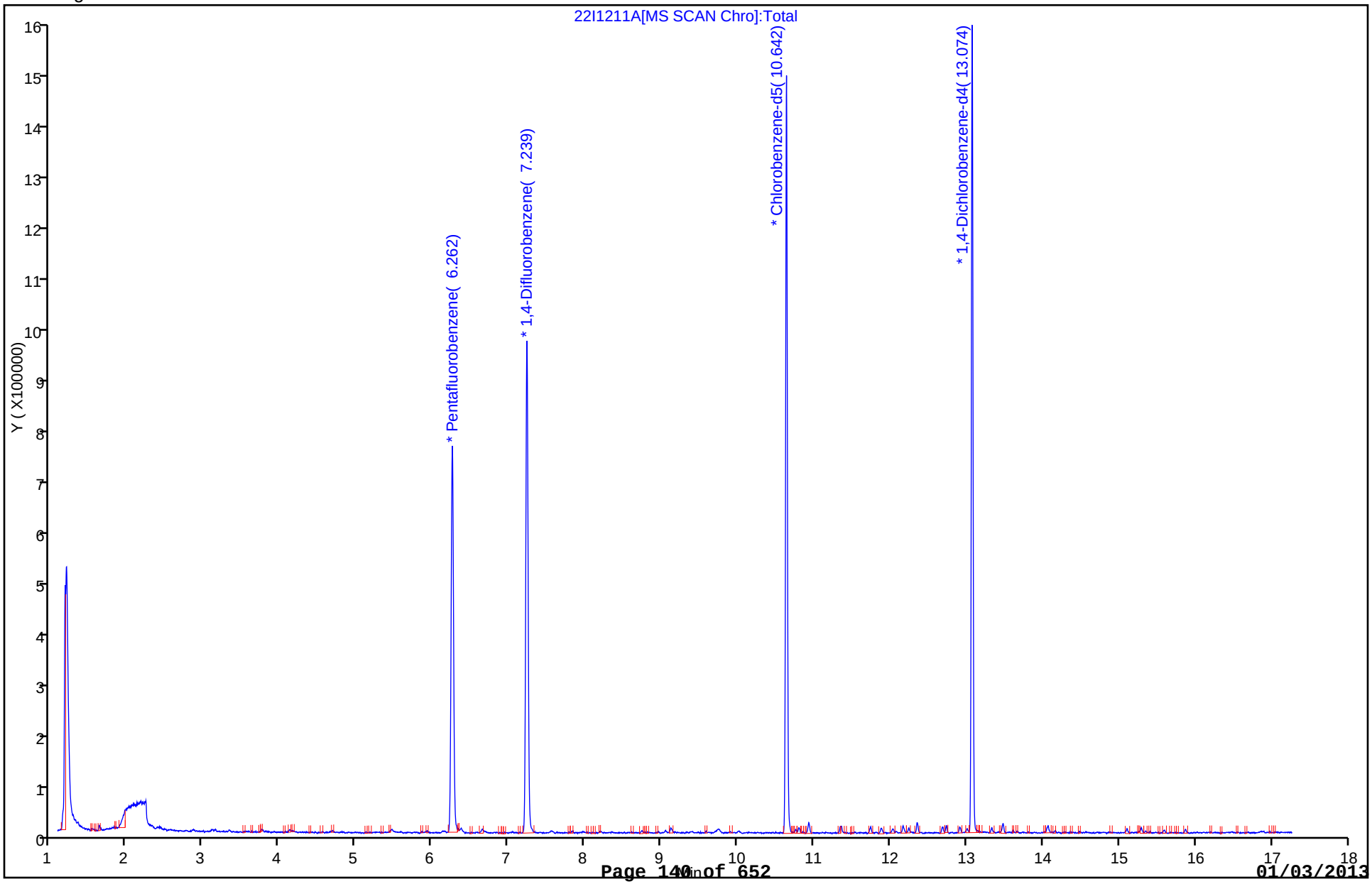
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 12-Dec-2012 11:36:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211A.D		
Injection Date:	11-Dec-2012 14:23:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	2
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



Report Date: 12-Dec-2012 11:36:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

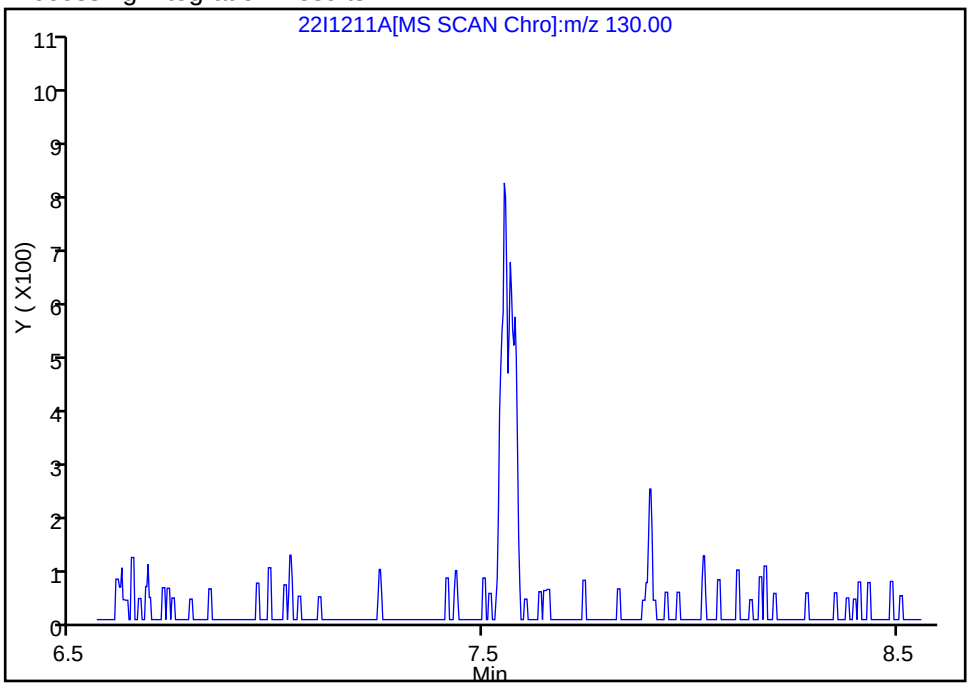
TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211A.D		
Injection Date:	11-Dec-2012 14:23:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	2
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

50 Trichloroethene, Signal: 1, m/z: 130.0 Type: quant, RT: 7.56

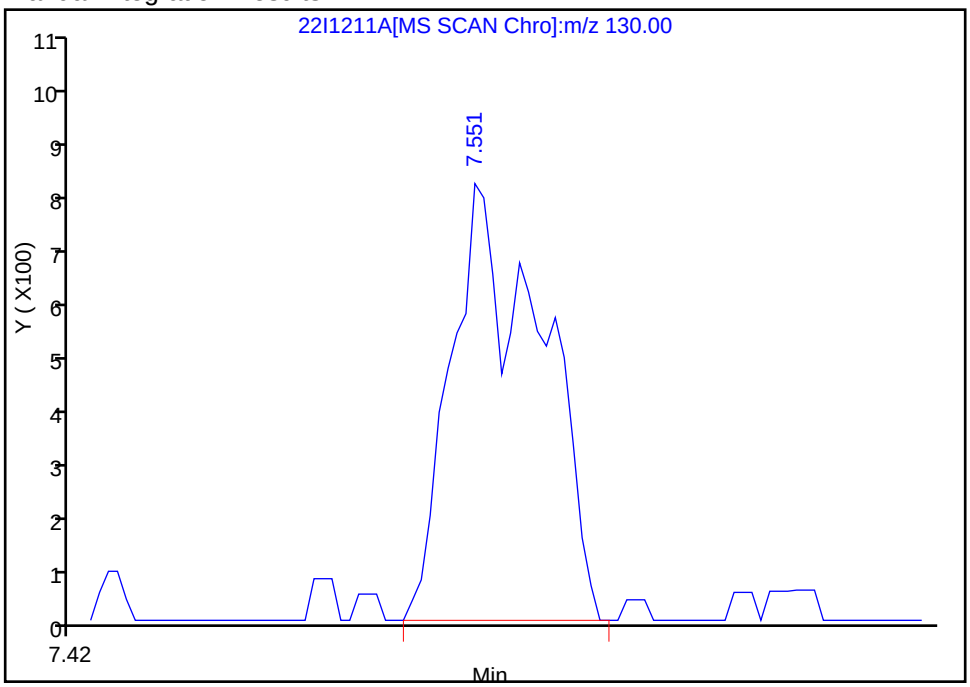
Processing Integration Results

Not Detected
Expected RT: 7.56



Manual Integration Results

RT: 7.55
Response: 1541
Amount: 0.259664



Reviewer: alikpalae, 11-Dec-2012 19:50:01
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Lims ID:	STD02	Client ID:	
Inject. Date:	11-Dec-2012 14:51:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	STD02		
Misc. Info.:	500-0014322-003		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	172615	Lims Sample ID:	3
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:36:54	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:36:54

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	81	8283	1.19	
2 Chloromethane	50	1.536	1.536	0.0	97	10611	1.16	
3 Vinyl chloride	62	1.657	1.657	0.0	93	9537	1.16	
5 Bromomethane	94	2.007	2.007	0.0	67	2132	0.8303	M
6 Chloroethane	64	2.125	2.122	0.003	64	5286	1.23	
7 Dichlorofluoromethane	67	2.408	2.405	0.003	83	14493	1.13	
8 Trichlorofluoromethane	101	2.440	2.443	-0.003	92	12483	1.18	
10 Acrolein	56	3.009	3.009	0.0	95	16997	33.3	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	80	5414	1.05	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.148	3.157	-0.008	72	7210	1.15	
15 Carbon disulfide	76	3.344	3.341	0.003	87	20516	1.08	
16 Acetonitrile	41	3.593	3.578	0.015	70	3815	9.98	M
20 Acrylonitrile	53	4.101	4.095	0.006	83	7715	7.46	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	84	6143	1.06	
22 Methyl tert-butyl ether	73	4.170	4.171	0.0	83	10253	1.08	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	68	12660	1.11	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	71	10444	1.11	
29 cis-1,2-Dichloroethene	96	5.468	5.473	-0.005	77	6562	1.12	
31 Propionitrile	54	5.589	5.580	0.009	87	3274	9.06	
34 Chlorobromomethane	128	5.788	5.783	0.005	75	2816	1.23	
36 Chloroform	83	5.930	5.927	0.003	72	10267	1.08	
38 1,1,1-Trichloroethane	97	6.144	6.149	-0.005	82	10394	1.09	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	93	642634	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	75	8845	1.03	
42 1,1-Dichloropropene	75	6.381	6.383	-0.003	80	9406	1.13	
45 Benzene	78	6.655	6.658	-0.003	92	24000	1.10	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	75	6813	1.08	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 49 1,4-Difluorobenzene	114	7.239	7.239	-0.001	96	888368	50.0	
50 Trichloroethene	130	7.556	7.562	-0.006	72	6794	1.11	
53 1,2-Dichloropropane	63	7.842	7.837	0.005	76	6308	1.13	
54 Dibromomethane	93	7.969	7.975	-0.006	47	2589	1.15	
56 Dichlorobromomethane	83	8.201	8.201	0.0	73	6884	1.08	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	40	1869	1.00	
59 cis-1,3-Dichloropropene	75	8.744	8.747	-0.003	69	7564	1.04	
62 Toluene	92	9.131	9.131	0.0	79	14904	1.03	
63 trans-1,3-Dichloropropene	75	9.397	9.394	0.003	80	7005	1.16	
65 1,1,2-Trichloroethane	97	9.593	9.590	0.003	62	3579	1.17	
66 Tetrachloroethene	166	9.749	9.749	0.0	70	8289	1.21	M
67 1,3-Dichloropropane	76	9.766	9.769	-0.003	89	5569	1.06	
69 Chlorodibromomethane	129	10.012	10.012	0.0	63	4064	1.04	
70 Ethylene Dibromide	107	10.122	10.122	0.0	67	3616	1.23	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	88	752039	50.0	
72 Chlorobenzene	112	10.671	10.673	-0.002	77	17003	1.12	
73 1-Chlorohexane	91	10.679	10.682	-0.003	54	9223	1.05	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	62	5151	1.01	
75 Ethylbenzene	106	10.803	10.809	-0.006	95	9059	1.05	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	45804	2.13	
77 o-Xylene	91	11.347	11.349	-0.002	93	23810	1.09	
78 Styrene	104	11.358	11.361	-0.003	87	17304	1.03	
79 Bromoform	173	11.534	11.534	0.0	68	2410	1.04	
80 Isopropylbenzene	105	11.742	11.742	0.0	93	31324	1.15	
84 Bromobenzene	156	12.034	12.034	0.0	78	7072	1.17	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	52	3258	1.03	
86 1,2,3-Trichloropropane	75	12.075	12.077	-0.002	40	2270	0.9803	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	36750	1.13	
90 4-Chlorotoluene	91	12.245	12.245	0.0	89	21017	1.14	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	85	24843	1.10	
89 2-Chlorotoluene	91	12.355	12.358	-0.003	79	24693	1.13	
92 tert-Butylbenzene	119	12.690	12.690	0.0	85	24197	1.15	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	73	24293	1.09	
95 sec-Butylbenzene	105	12.915	12.915	0.0	91	34897	1.13	
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	78	15196	1.18	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	49	30451	1.13	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	409643	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	29	14514	1.14	
100 1,2-Dichlorobenzene	146	13.473	13.476	-0.003	84	12130	1.12	
101 n-Butylbenzene	91	13.484	13.481	0.003	88	25501	1.07	
105 1,2-Dibromo-3-Chloropropane	75	14.264	14.259	0.005	1	517	0.9546	
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	80	8084	1.10	
109 Hexachlorobutadiene	225	15.293	15.296	-0.003	72	7491	1.21	
110 Naphthalene	128	15.351	15.348	0.003	91	8454	1.05	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	75	6507	1.11	
S 113 1,2-Dichloroethene, Total	96				0		2.18	
S 114 Xylenes, Total	100				0		3.22	
S 115 1,3-Dichloropropene, Total	1				0		2.20	
S 116 Trihalomethanes, Total	1				0		4.24	
S 117 Trimethylbenzene, Total	1				0		2.19	

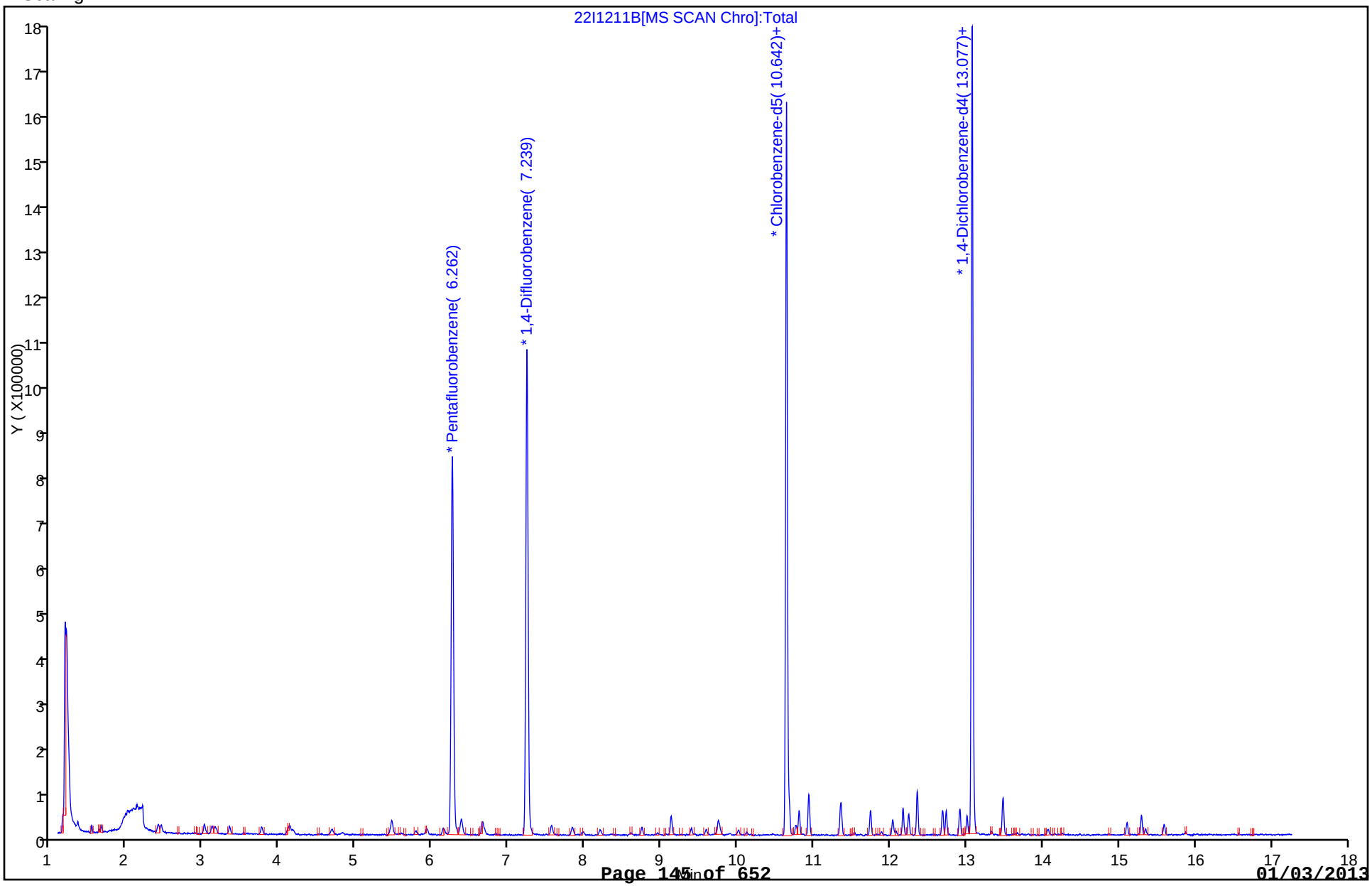
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 12-Dec-2012 11:36:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Injection Date:	11-Dec-2012 14:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



Manual Integration/User Assign Peak Report

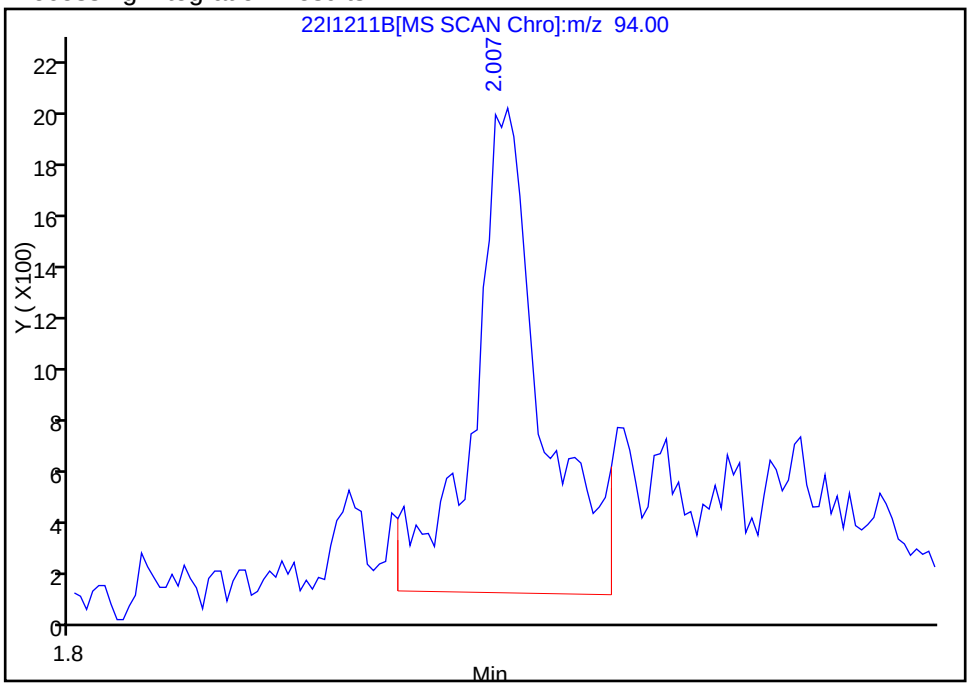
TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Injection Date:	11-Dec-2012 14:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

5 Bromomethane, Signal: 1, m/z: 94.0 Type: quant, RT: 2.01

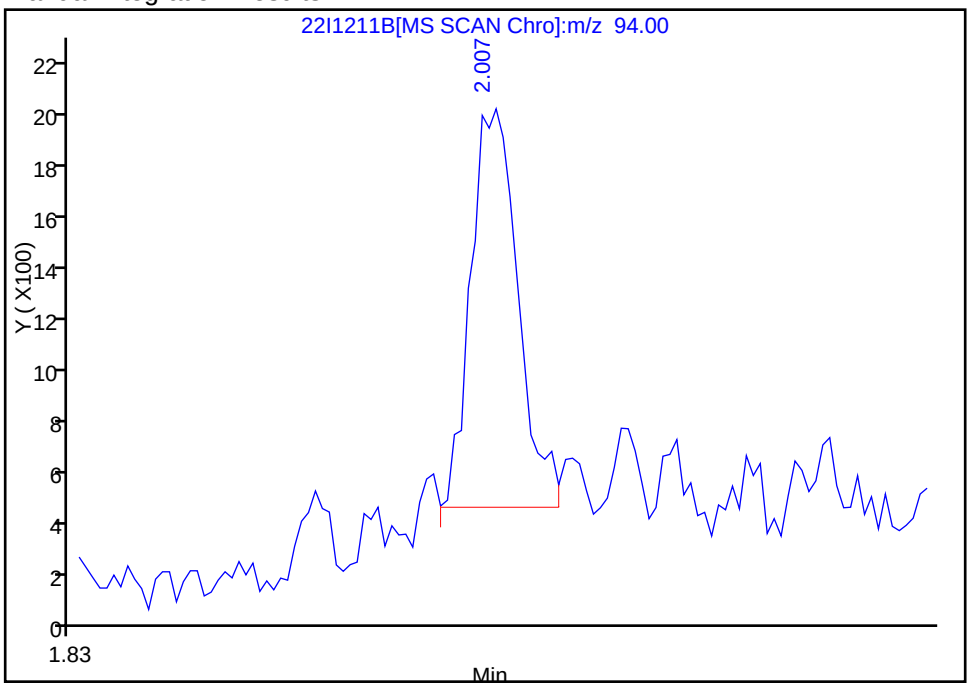
Processing Integration Results

RT: 2.01
Response: 4320
Amount: 1.455596



Manual Integration Results

RT: 2.01
Response: 2132
Amount: 0.830280



Reviewer: alikpalae, 11-Dec-2012 19:54:33
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

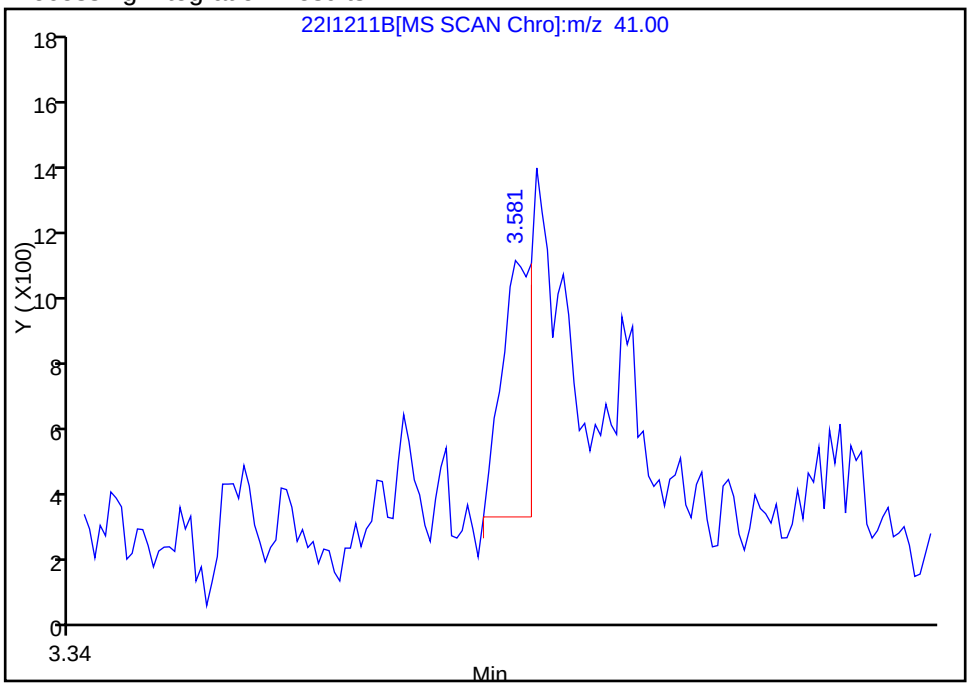
TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Injection Date:	11-Dec-2012 14:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

16 Acetonitrile, Signal: 1, m/z: 41.0 Type: quant, RT: 3.58

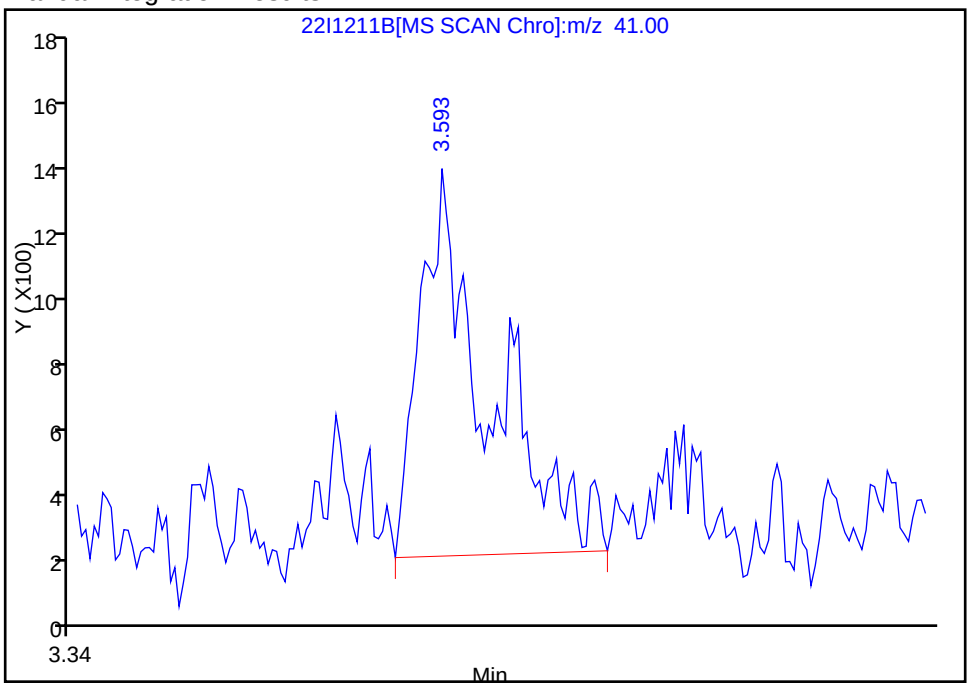
Processing Integration Results

RT: 3.58
Response: 888
Amount: 6.029633



Manual Integration Results

RT: 3.59
Response: 3815
Amount: 9.981547



Reviewer: alikpalae, 11-Dec-2012 19:54:33
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

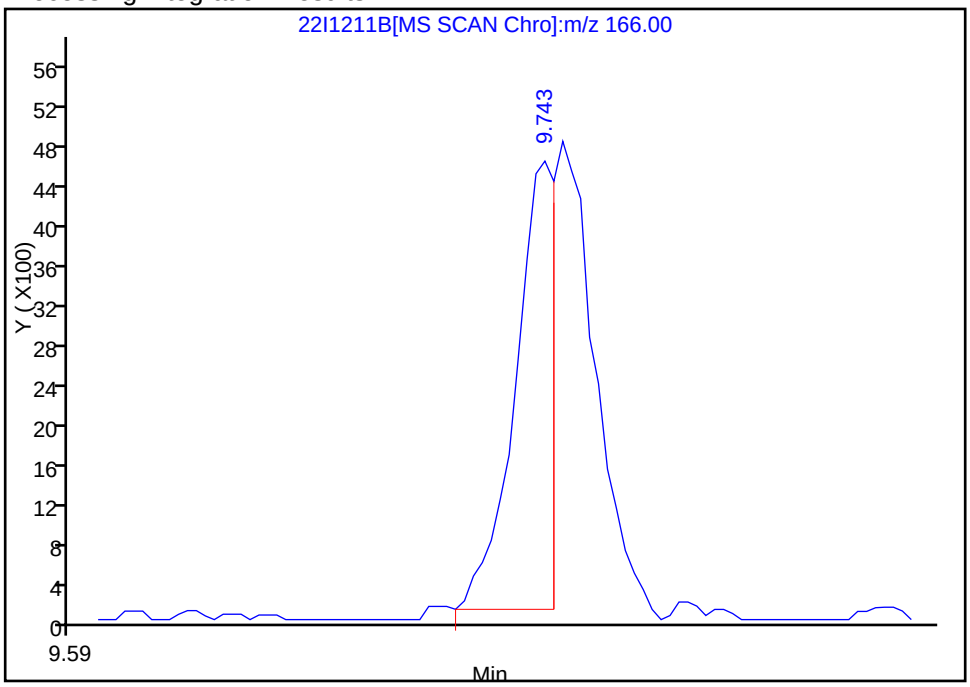
TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211B.D		
Injection Date:	11-Dec-2012 14:51:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

66 Tetrachloroethene, Signal: 1, m/z: 166.0 Type: quant, RT: 9.75

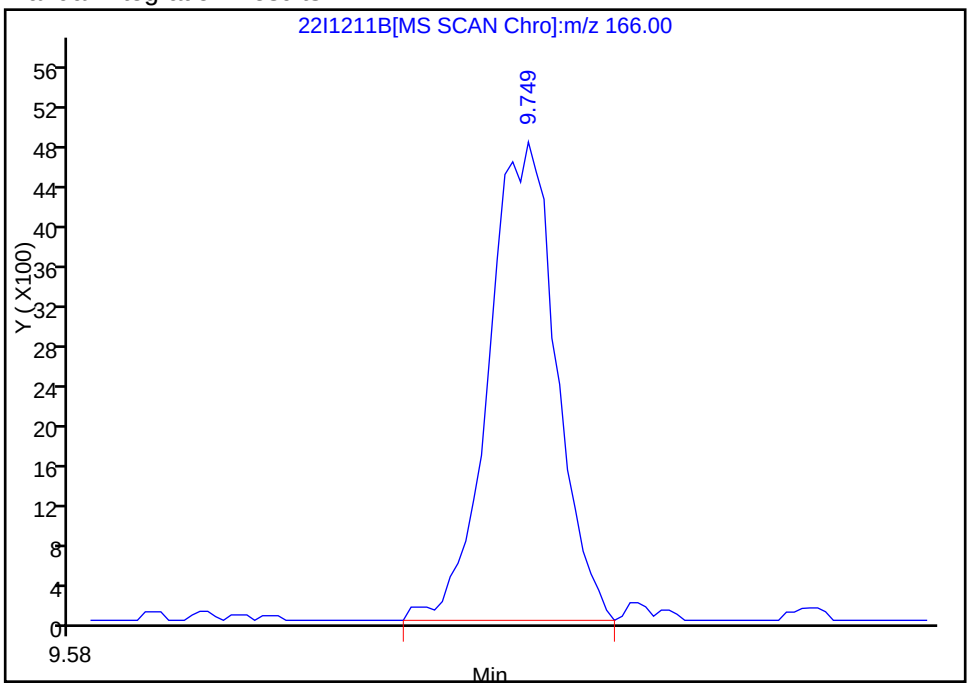
Processing Integration Results

RT: 9.74
Response: 4046
Amount: 0.642870



Manual Integration Results

RT: 9.75
Response: 8289
Amount: 1.214679



Reviewer: alikpalae, 11-Dec-2012 19:54:33
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211C.D		
Lims ID:	STD03	Client ID:	
Inject. Date:	11-Dec-2012 15:20:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	STD03		
Misc. Info.:	500-0014322-004		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	172615	Lims Sample ID:	4
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:00	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:00

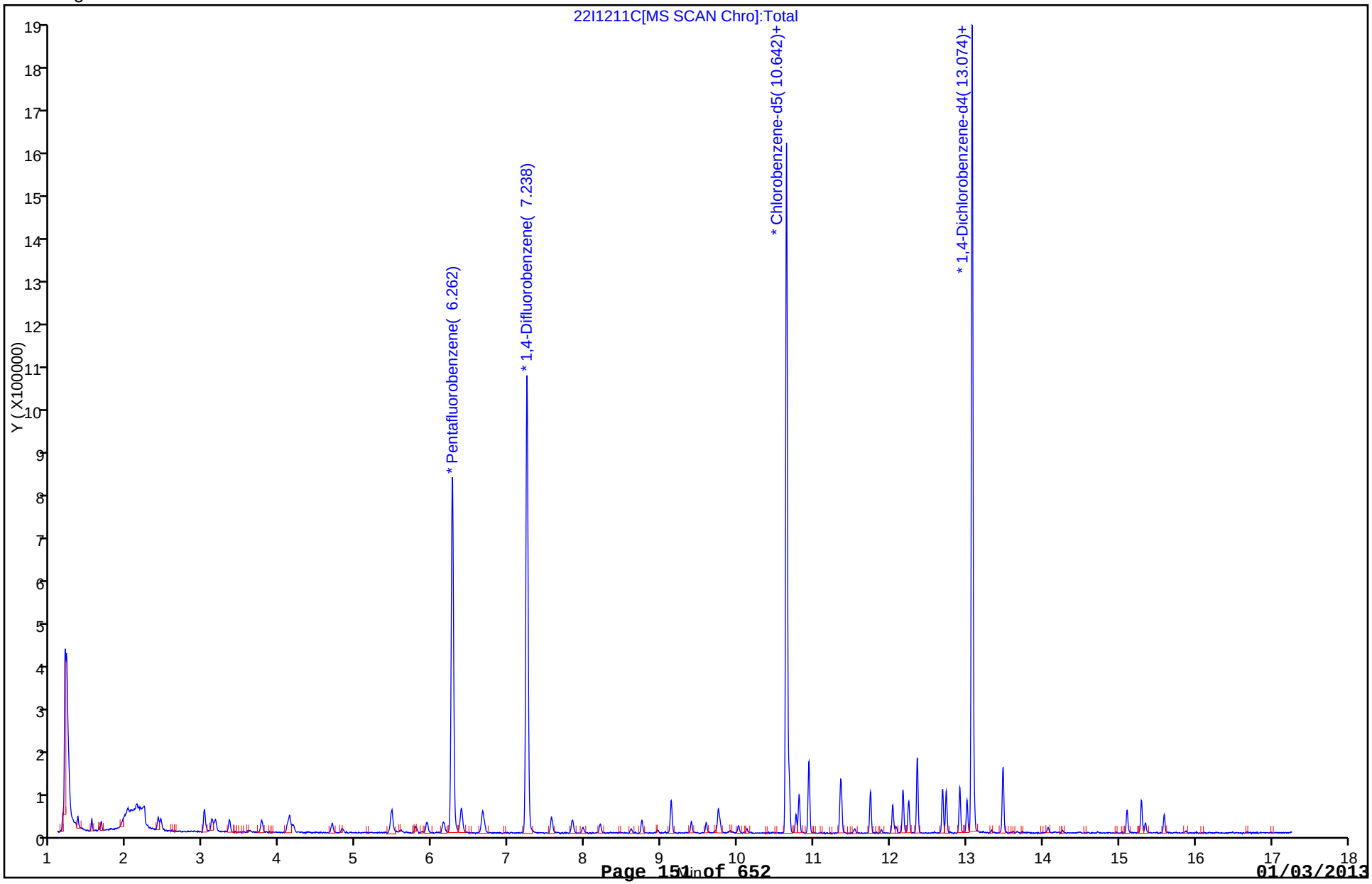
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	87	14019	1.96	
2 Chloromethane	50	1.533	1.536	-0.003	84	19121	2.04	
3 Vinyl chloride	62	1.660	1.657	0.003	78	16111	1.91	
5 Bromomethane	94	2.007	2.007	0.0	76	5817	2.21	
6 Chloroethane	64	2.122	2.122	0.0	90	8684	1.97	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	78	27342	2.07	
8 Trichlorofluoromethane	101	2.440	2.443	-0.003	76	22039	2.02	
10 Acrolein	56	3.012	3.009	0.003	92	44508	84.9	
11 1,1-Dichloroethene	96	3.116	3.110	0.006	82	11300	2.14	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.156	3.157	0.0	77	13042	2.03	
15 Carbon disulfide	76	3.338	3.341	-0.003	97	36202	1.85	
16 Acetonitrile	41	3.598	3.578	0.020	90	7023	17.9	
19 Methylene Chloride	84	3.760	3.763	-0.003	92	10588	2.10	
20 Acrylonitrile	53	4.101	4.095	0.006	96	19252	18.1	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	82	12190	2.05	
22 Methyl tert-butyl ether	73	4.179	4.171	0.009	81	18092	1.86	
24 1,1-Dichloroethane	63	4.682	4.682	0.0	81	21793	1.86	
25 Vinyl acetate	43	4.812	4.815	-0.003	99	16181	1.96	
28 2,2-Dichloropropane	77	5.459	5.462	-0.003	82	18966	1.96	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	79	11093	1.85	
31 Propionitrile	54	5.589	5.580	0.009	80	5826	15.7	
34 Chlorobromomethane	128	5.779	5.783	-0.004	84	4362	1.85	
36 Chloroform	83	5.930	5.927	0.003	73	19708	2.02	
38 1,1,1-Trichloroethane	97	6.144	6.149	-0.005	71	19135	1.96	
* 39 Pentafluorobenzene	168	6.265	6.262	0.003	91	660013	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	74	18161	2.06	
42 1,1-Dichloropropene	75	6.380	6.383	-0.003	79	15734	1.84	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
45 Benzene	78	6.658	6.658	0.0	98	44324	1.98	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	92	12420	1.93	
* 49 1,4-Difluorobenzene	114	7.238	7.239	-0.001	96	909881	50.0	
50 Trichloroethene	130	7.559	7.562	-0.003	84	12213	1.95	
53 1,2-Dichloropropane	63	7.836	7.837	-0.001	79	11028	1.92	
54 Dibromomethane	93	7.972	7.975	-0.003	76	4753	2.06	
56 Dichlorobromomethane	83	8.200	8.201	-0.001	83	12765	1.95	
58 2-Chloroethyl vinyl ether	63	8.608	8.602	0.006	67	3984	2.08	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	73	14930	2.01	
62 Toluene	92	9.131	9.131	0.0	93	28786	1.93	
63 trans-1,3-Dichloropropene	75	9.396	9.394	0.002	87	11724	1.90	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	69	6500	2.07	
66 Tetrachloroethene	166	9.746	9.749	-0.003	96	14024	1.98	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	89	11637	2.13	
69 Chlorodibromomethane	129	10.015	10.012	0.003	68	7418	1.82	
70 Ethylene Dibromide	107	10.127	10.122	0.005	79	5912	1.97	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	782279	50.0	
72 Chlorobenzene	112	10.670	10.673	-0.003	92	31983	2.02	
73 1-Chlorohexane	91	10.682	10.682	0.0	65	18665	2.06	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	77	10625	2.00	
75 Ethylbenzene	106	10.806	10.809	-0.003	98	17971	2.00	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	87017	3.90	
77 o-Xylene	91	11.349	11.349	0.0	91	43602	1.91	
78 Styrene	104	11.361	11.361	0.0	86	33541	1.91	
79 Bromoform	173	11.534	11.534	0.0	83	4275	1.78	
80 Isopropylbenzene	105	11.745	11.742	0.003	96	57244	2.03	
84 Bromobenzene	156	12.031	12.034	-0.003	85	12892	2.05	
85 1,1,2,2-Tetrachloroethane	83	12.046	12.043	0.003	54	7169	2.18	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	37	5288	2.19	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	68894	2.03	
90 4-Chlorotoluene	91	12.242	12.245	-0.003	89	38120	1.99	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	85	46048	1.95	
89 2-Chlorotoluene	91	12.358	12.358	0.0	89	44629	1.96	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	91	44012	2.02	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	58	46692	2.02	
95 sec-Butylbenzene	105	12.912	12.915	-0.003	94	64452	2.00	
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	91	28192	2.10	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	53	57429	2.05	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	426748	50.0	
99 1,4-Dichlorobenzene	146	13.097	13.100	-0.003	76	28274	2.13	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	74	22897	2.03	
101 n-Butylbenzene	91	13.481	13.481	0.0	96	48990	1.97	
105 1,2-Dibromo-3-Chloropropane	75	14.261	14.259	0.002	4	1453	2.58	
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	86	14950	1.95	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	87	13587	2.10	
110 Naphthalene	128	15.345	15.348	-0.003	93	16474	1.96	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	89	11786	1.93	
S 113 1,2-Dichloroethene, Total	96				0		3.90	
S 114 Xylenes, Total	100				0		5.81	
S 115 1,3-Dichloropropene, Total	1				0		3.90	
S 116 Trihalomethanes, Total	1				0		7.57	
S 117 Trimethylbenzene, Total	1				0		3.97	

Report Date: 12-Dec-2012 11:37:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211C.D		
Injection Date:	11-Dec-2012 15:20:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	4
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211D.D		
Lims ID:	STD04	Client ID:	
Inject. Date:	11-Dec-2012 15:48:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	STD04		
Misc. Info.:	500-0014322-005		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	172615	Lims Sample ID:	5
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:07	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	86	34084	4.41	
2 Chloromethane	50	1.536	1.536	0.0	88	44725	4.41	
3 Vinyl chloride	62	1.660	1.657	0.003	98	40052	4.40	
5 Bromomethane	94	2.004	2.007	-0.003	87	12250	4.30	
6 Chloroethane	64	2.122	2.122	0.0	92	22657	4.75	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	79	66676	4.67	
8 Trichlorofluoromethane	101	2.443	2.443	0.0	79	55227	4.68	
10 Acrolein	56	3.009	3.009	0.0	93	89671	158.2	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	85	26186	4.59	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.156	3.157	0.0	82	32193	4.64	
13 Acetone	43	3.258	3.232	0.026	70	3957	4.34	
15 Carbon disulfide	76	3.338	3.341	-0.003	100	94343	4.47	
16 Acetonitrile	41	3.593	3.578	0.015	93	13902	32.8	
19 Methylene Chloride	84	3.766	3.763	0.003	94	25901	4.76	
20 Acrylonitrile	53	4.101	4.095	0.006	90	38635	33.6	
21 trans-1,2-Dichloroethene	96	4.127	4.130	-0.003	87	29175	4.54	
22 Methyl tert-butyl ether	73	4.173	4.171	0.003	90	48485	4.61	
24 1,1-Dichloroethane	63	4.682	4.682	0.0	97	57801	4.57	
25 Vinyl acetate	43	4.815	4.815	0.0	99	40320	4.52	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	79	47829	4.56	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	86	29875	4.60	
30 2-Butanone (MEK)	43	5.537	5.523	0.014	73	5877	4.45	
31 Propionitrile	54	5.580	5.580	0.0	80	13049	32.1	
34 Chlorobromomethane	128	5.777	5.783	-0.006	83	11462	4.50	
35 Tetrahydrofuran	42	5.863	5.858	0.005	82	3843	4.66	
36 Chloroform	83	5.930	5.927	0.003	82	48119	4.57	
38 1,1,1-Trichloroethane	97	6.144	6.149	-0.005	89	48811	4.62	

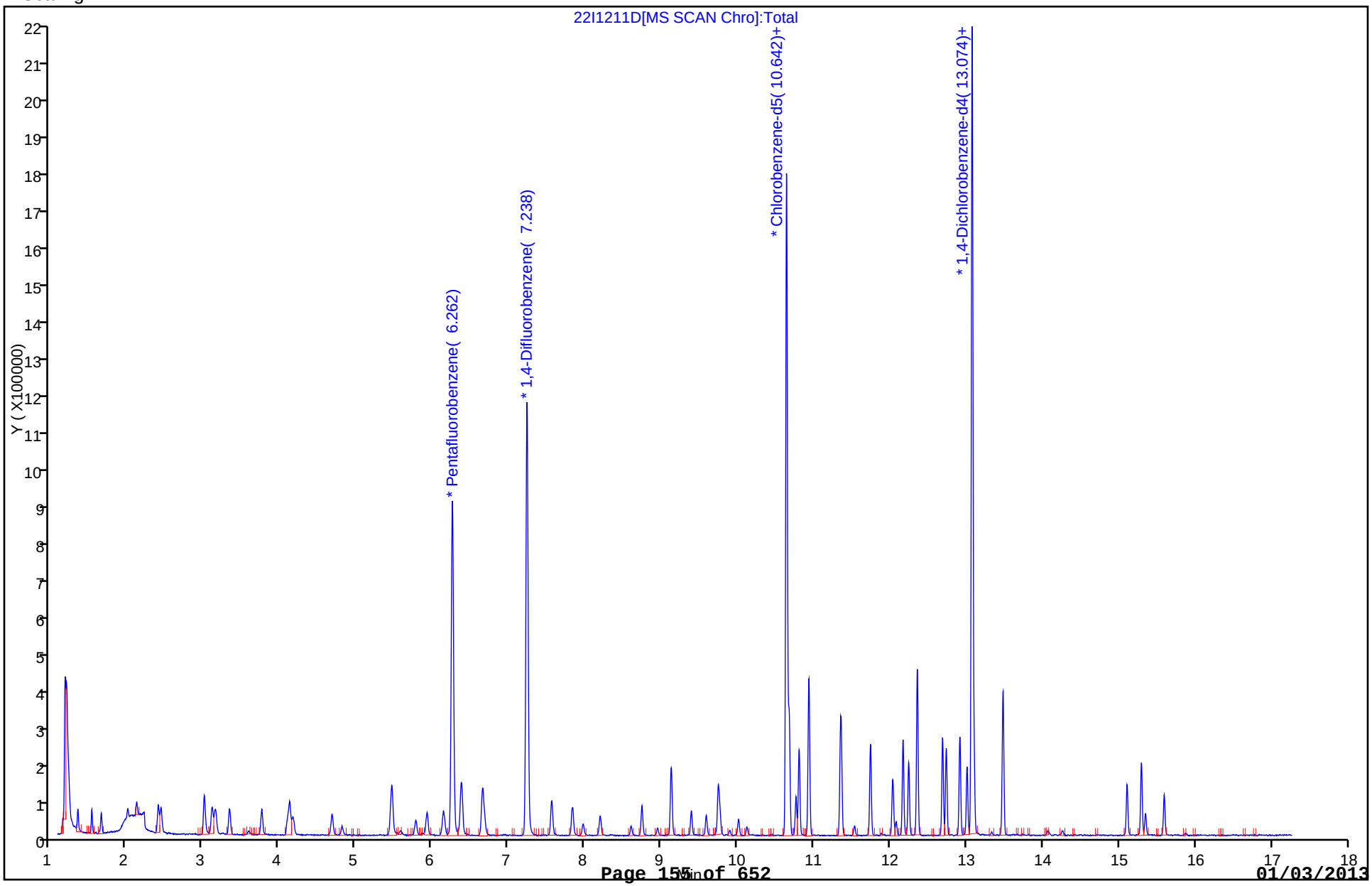
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	92	713682	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	76	44839	4.64	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	85	42090	4.55	
45 Benzene	78	6.658	6.658	0.0	98	113004	4.60	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	87	31493	4.45	
* 49 1,4-Difluorobenzene	114	7.238	7.239	-0.001	96	999528	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	95	33134	4.80	
53 1,2-Dichloropropane	63	7.834	7.837	-0.003	86	28481	4.52	
54 Dibromomethane	93	7.975	7.975	0.0	85	11529	4.54	
56 Dichlorobromomethane	83	8.198	8.201	-0.003	88	33178	4.61	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	84	10192	4.84	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	80	37294	4.56	
60 4-Methyl-2-pentanone (MIBK)	43	8.949	8.952	-0.003	81	13833	4.51	
62 Toluene	92	9.131	9.131	0.0	91	74548	4.56	
63 trans-1,3-Dichloropropene	75	9.396	9.394	0.002	86	29021	4.28	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	93	15804	4.59	
66 Tetrachloroethene	166	9.746	9.749	-0.003	84	36478	4.69	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	91	27497	4.59	
68 2-Hexanone	43	9.896	9.896	0.0	85	8872	4.30	
69 Chlorodibromomethane	129	10.012	10.012	0.0	87	19500	4.37	
70 Ethylene Dibromide	107	10.122	10.122	0.0	94	14445	4.38	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	857342	50.0	
72 Chlorobenzene	112	10.671	10.673	-0.003	79	82345	4.75	
73 1-Chlorohexane	91	10.679	10.682	-0.003	77	46324	4.73	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	82	25733	4.41	
75 Ethylbenzene	106	10.809	10.809	0.0	97	45661	4.63	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	223793	9.14	
77 o-Xylene	91	11.349	11.349	0.0	90	110873	4.44	
78 Styrene	104	11.361	11.361	0.0	90	84628	4.41	
79 Bromoform	173	11.534	11.534	0.0	90	10660	4.05	
80 Isopropylbenzene	105	11.742	11.742	0.0	97	148746	4.63	
84 Bromobenzene	156	12.034	12.034	0.0	86	33053	4.62	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	72	18231	4.89	
86 1,2,3-Trichloropropane	75	12.077	12.077	0.0	43	12868	4.69	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	176823	4.59	
90 4-Chlorotoluene	91	12.245	12.245	0.0	94	97903	4.50	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	87	121204	4.52	
89 2-Chlorotoluene	91	12.355	12.358	-0.003	94	117536	4.55	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	91	114646	4.62	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	64	115053	4.37	
95 sec-Butylbenzene	105	12.915	12.915	0.0	94	172232	4.69	
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	73	68974	4.51	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	62	145300	4.56	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	95	485251	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	84	70862	4.69	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	78	58683	4.57	
101 n-Butylbenzene	91	13.481	13.481	0.0	95	128404	4.53	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	32	2909	4.53	
108 1,2,4-Trichlorobenzene	180	15.105	15.108	-0.003	92	39749	4.57	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	91	35512	4.84	
110 Naphthalene	128	15.348	15.348	0.0	97	43237	4.52	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	92	32167	4.62	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
S 113 1,2-Dichloroethene, Total	96				0		9.14	
S 114 Xylenes, Total	100				0		13.6	
S 115 1,3-Dichloropropene, Total	1				0		8.84	
S 116 Trihalomethanes, Total	1				0		17.6	
S 117 Trimethylbenzene, Total	1				0		8.89	

Report Date: 12-Dec-2012 11:37:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211D.D		
Injection Date:	11-Dec-2012 15:48:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	5
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211E.D		
Lims ID:	STD05	Client ID:	
Inject. Date:	11-Dec-2012 16:16:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	STD05		
Misc. Info.:	500-0014322-006		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	172615	Lims Sample ID:	6
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:13	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:13

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	86	128973	18.0	
2 Chloromethane	50	1.536	1.536	0.0	89	181982	19.4	
3 Vinyl chloride	62	1.657	1.657	0.0	84	161885	19.2	
5 Bromomethane	94	2.007	2.007	0.0	91	45578	17.3	
6 Chloroethane	64	2.122	2.122	0.0	97	87550	19.9	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	83	266205	20.2	
8 Trichlorofluoromethane	101	2.440	2.443	-0.003	97	219705	20.1	
10 Acrolein	56	3.009	3.009	0.0	96	410157	782.4	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	86	105858	20.0	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.154	3.157	-0.002	82	126370	19.7	
13 Acetone	43	3.237	3.232	0.005	86	16764	19.9	
15 Carbon disulfide	76	3.338	3.341	-0.003	98	384523	19.7	
16 Acetonitrile	41	3.581	3.578	0.003	96	62328	158.7	
19 Methylene Chloride	84	3.760	3.763	-0.003	94	105736	21.0	
20 Acrylonitrile	53	4.098	4.095	0.003	98	173831	163.5	
21 trans-1,2-Dichloroethene	96	4.127	4.130	-0.003	91	120435	20.3	
22 Methyl tert-butyl ether	73	4.173	4.171	0.003	87	200118	20.6	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	242674	20.7	
25 Vinyl acetate	43	4.815	4.815	0.0	98	169641	20.5	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	77	198464	20.5	
29 cis-1,2-Dichloroethene	96	5.473	5.473	0.0	86	123154	20.5	
30 2-Butanone (MEK)	43	5.523	5.523	-0.001	88	24272	19.9	
31 Propionitrile	54	5.577	5.580	-0.003	95	61580	161.6	
34 Chlorobromomethane	128	5.783	5.783	-0.001	94	48207	20.5	
35 Tetrahydrofuran	42	5.869	5.858	0.011	84	16127	21.1	
36 Chloroform	83	5.930	5.927	0.003	83	200834	20.6	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.0	60	107966	20.5	

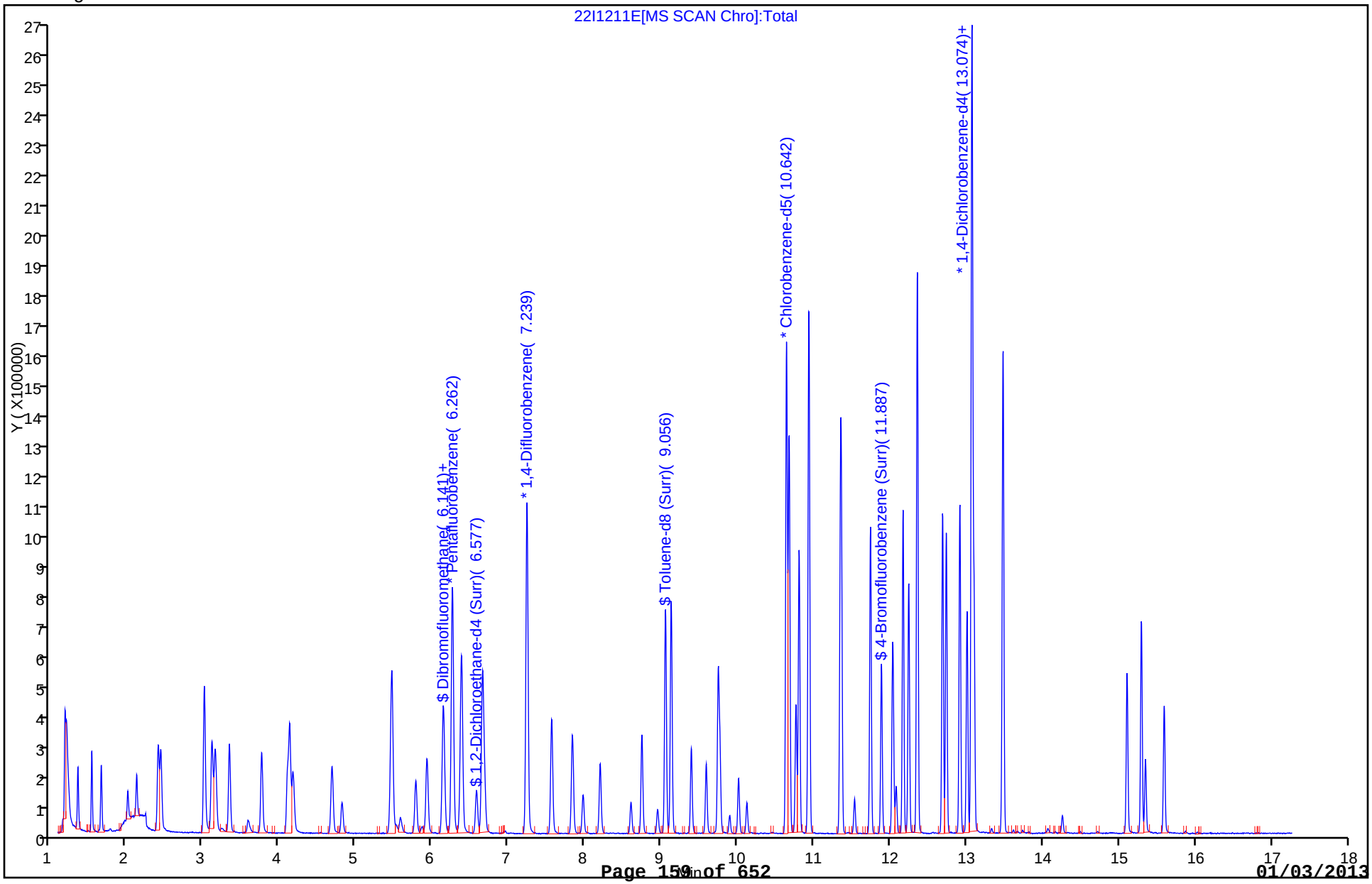
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.147	6.149	-0.003	91	195166	20.0	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	91	660265	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	83	182447	20.2	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	84	175593	20.5	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	108560	20.8	
45 Benzene	78	6.658	6.658	0.0	96	470128	20.4	
46 1,2-Dichloroethane	62	6.687	6.684	0.003	88	135519	20.5	
* 49 1,4-Difluorobenzene	114	7.239	7.239	0.0	95	936473	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	97	131705	20.4	
53 1,2-Dichloropropane	63	7.834	7.837	-0.003	88	122258	20.7	
54 Dibromomethane	93	7.975	7.975	0.0	86	48251	20.3	
56 Dichlorobromomethane	83	8.201	8.201	0.0	96	139566	20.7	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	41067	20.8	
59 cis-1,3-Dichloropropene	75	8.747	8.747	0.0	84	158135	20.6	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	92	58466	20.3	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	90	461399	20.8	
62 Toluene	92	9.131	9.131	0.0	94	305710	20.0	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	127802	20.1	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	88	62968	19.5	
66 Tetrachloroethene	166	9.746	9.749	-0.003	95	144290	20.1	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	97	111881	20.3	
68 2-Hexanone	43	9.896	9.896	0.0	95	37503	19.7	
69 Chlorodibromomethane	129	10.012	10.012	0.0	90	85045	20.7	
70 Ethylene Dibromide	107	10.122	10.122	0.0	99	60214	19.5	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	85	789618	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	92	327328	20.5	
73 1-Chlorohexane	91	10.679	10.682	-0.003	91	184447	20.3	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	84	108914	20.3	
75 Ethylbenzene	106	10.806	10.809	-0.003	97	183060	20.1	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	939704	41.7	
77 o-Xylene	91	11.349	11.349	0.0	91	466833	20.3	
78 Styrene	104	11.361	11.361	0.0	90	360216	20.4	
79 Bromoform	173	11.534	11.534	0.0	96	49043	20.2	
80 Isopropylbenzene	105	11.742	11.742	0.0	99	610310	21.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.884	11.887	-0.003	88	158632	20.1	
84 Bromobenzene	156	12.034	12.034	0.0	82	135512	21.0	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	73	71670	21.3	
86 1,2,3-Trichloropropane	75	12.077	12.077	0.0	57	53399	21.6	
88 N-Propylbenzene	91	12.170	12.170	0.0	99	727359	20.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	92	404326	20.6	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	87	508814	21.0	
89 2-Chlorotoluene	91	12.358	12.358	0.0	92	476349	20.4	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	90	465442	20.8	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	66	485753	20.4	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	684971	20.7	
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	78	278836	20.2	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	91	590843	20.5	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	93	438241	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	81	274358	20.1	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	77	245994	21.2	
101 n-Butylbenzene	91	13.481	13.481	0.0	97	516775	20.2	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	58	11888	20.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	94	157753	20.1	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	128859	19.4	
110 Naphthalene	128	15.348	15.348	0.0	99	175344	20.3	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	129572	20.6	
S 113 1,2-Dichloroethene, Total	96				0		40.7	
S 114 Xylenes, Total	100				0		62.0	
S 115 1,3-Dichloropropene, Total	1				0		40.8	
S 116 Trihalomethanes, Total	1				0		82.2	
S 117 Trimethylbenzene, Total	1				0		41.4	

Report Date: 12-Dec-2012 11:37:14 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211E.D		
Injection Date:	11-Dec-2012 16:16:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	6
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211F.D		
Lims ID:	STD06	Client ID:	
Inject. Date:	11-Dec-2012 16:44:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	6
Sample ID:	STD06		
Misc. Info.:	500-0014322-007		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	172615	Lims Sample ID:	7
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:19	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:19

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	88	408706	53.5	
2 Chloromethane	50	1.536	1.536	0.0	89	506217	50.5	
3 Vinyl chloride	62	1.657	1.657	0.0	84	459341	51.1	
5 Bromomethane	94	2.007	2.007	0.0	91	146376	52.0	
6 Chloroethane	64	2.122	2.122	0.0	97	237436	50.5	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	84	691989	49.1	
8 Trichlorofluoromethane	101	2.443	2.443	0.0	80	586466	50.3	
10 Acrolein	56	3.009	3.009	0.0	96	1104663	1973.9	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	85	277562	49.2	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.157	3.157	0.0	82	334028	48.7	
13 Acetone	43	3.232	3.232	0.0	98	43292	48.0	
15 Carbon disulfide	76	3.341	3.341	0.0	99	1079379	51.7	
16 Acetonitrile	41	3.578	3.578	0.0	99	147511	351.9	
19 Methylene Chloride	84	3.763	3.763	0.0	94	262156	48.8	
20 Acrylonitrile	53	4.095	4.095	0.0	98	430688	379.4	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	91	314119	49.5	
22 Methyl tert-butyl ether	73	4.171	4.171	0.0	88	509651	49.1	
24 1,1-Dichloroethane	63	4.682	4.682	0.0	86	616675	49.4	
25 Vinyl acetate	43	4.815	4.815	0.0	100	430488	48.8	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	79	510518	49.3	
29 cis-1,2-Dichloroethene	96	5.473	5.473	0.0	83	317732	49.5	
30 2-Butanone (MEK)	43	5.523	5.523	0.0	83	64002	49.1	
31 Propionitrile	54	5.580	5.580	0.0	97	150541	375.2	
34 Chlorobromomethane	128	5.783	5.783	0.0	90	123109	48.9	
35 Tetrahydrofuran	42	5.858	5.858	0.0	91	41123	50.4	
36 Chloroform	83	5.927	5.927	0.0	83	507134	48.8	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.0	69	264099	47.0	

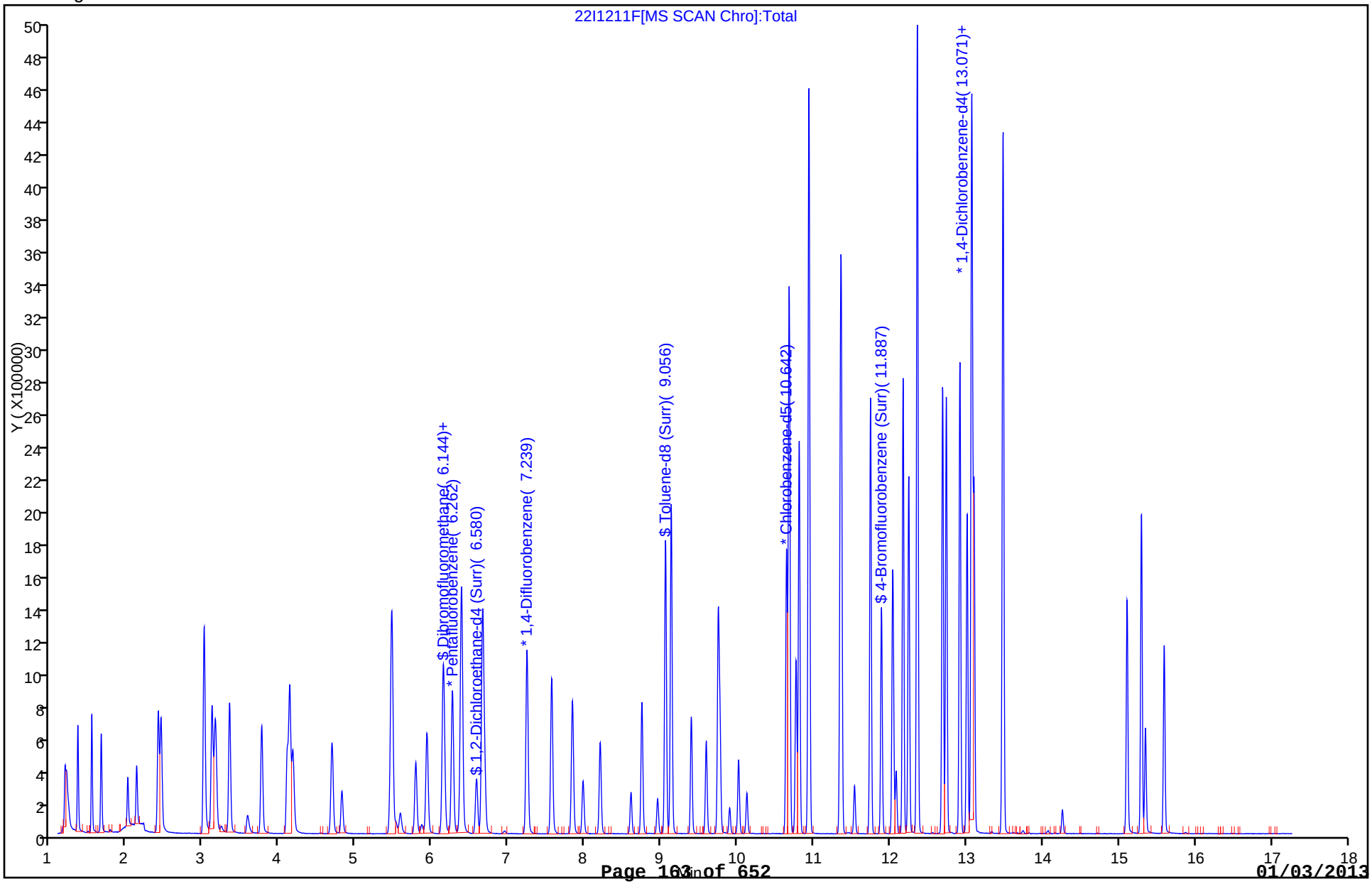
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.149	6.149	0.0	90	515733	49.5	
* 39 Pentafluorobenzene	168	6.265	6.265	0.0	91	704869	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	77	481514	50.5	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	84	456667	49.9	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	264333	48.0	
45 Benzene	78	6.658	6.658	0.0	97	1210657	49.9	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	82	350802	50.3	
* 49 1,4-Difluorobenzene	114	7.239	7.239	0.0	96	986088	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	89	338598	49.8	
53 1,2-Dichloropropane	63	7.837	7.837	0.0	88	308626	49.6	
54 Dibromomethane	93	7.975	7.975	0.0	86	122106	48.7	
56 Dichlorobromomethane	83	8.201	8.201	0.0	92	348406	49.1	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	100134	48.2	
59 cis-1,3-Dichloropropene	75	8.747	8.747	0.0	85	397656	49.3	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	96	151375	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	79	1119518	48.0	
62 Toluene	92	9.131	9.131	0.0	95	791155	49.1	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	325796	48.7	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	88	161526	47.5	
66 Tetrachloroethene	166	9.749	9.749	0.0	90	371408	49.0	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	97	284612	48.8	
68 2-Hexanone	43	9.896	9.896	0.0	97	101953	50.7	
69 Chlorodibromomethane	129	10.012	10.012	0.0	87	219735	50.5	
70 Ethylene Dibromide	107	10.122	10.122	0.0	99	154974	47.6	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	83	835432	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	93	831189	49.2	
73 1-Chlorohexane	91	10.682	10.682	0.0	85	476816	49.3	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	89	286131	50.4	
75 Ethylbenzene	106	10.809	10.809	0.0	98	484613	50.4	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2428374	101.8	
77 o-Xylene	91	11.349	11.349	0.0	92	1210753	49.8	
78 Styrene	104	11.361	11.361	0.0	89	945512	50.5	
79 Bromoform	173	11.534	11.534	0.0	98	129169	50.3	
80 Isopropylbenzene	105	11.742	11.742	0.0	98	1601454	48.2	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	400320	47.9	
84 Bromobenzene	156	12.034	12.034	0.0	91	347188	46.9	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	77	177658	46.1	
86 1,2,3-Trichloropropane	75	12.077	12.077	0.0	54	135614	47.8	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	1949080	48.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	92	1086544	48.3	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	86	1350744	48.7	
89 2-Chlorotoluene	91	12.358	12.358	0.0	94	1285442	48.1	
92 tert-Butylbenzene	119	12.690	12.690	0.0	87	1231564	48.0	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	69	1323232	48.6	
95 sec-Butylbenzene	105	12.915	12.915	0.0	94	1845685	48.6	
96 1,3-Dichlorobenzene	146	13.011	13.011	0.0	83	743079	47.0	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	93	1590983	48.3	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	89	501593	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	742273	47.6	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	75	641352	48.3	
101 n-Butylbenzene	91	13.481	13.481	0.0	95	1443162	49.3	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	55	30736	46.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	93	435120	48.4	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	367053	48.3	
110 Naphthalene	128	15.348	15.348	0.0	97	469003	47.4	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	349729	48.6	
S 113 1,2-Dichloroethene, Total	96				0		99.0	
S 114 Xylenes, Total	100				0		151.6	
S 115 1,3-Dichloropropene, Total	1				0		98.0	
S 116 Trihalomethanes, Total	1				0		198.7	
S 117 Trimethylbenzene, Total	1				0		97.3	

Report Date: 12-Dec-2012 11:37:19 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211F.D		
Injection Date:	11-Dec-2012 16:44:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	7
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211G.D		
Lims ID:	STD07	Client ID:	
Inject. Date:	11-Dec-2012 17:13:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	STD07		
Misc. Info.:	500-0014322-008		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	8
Lims Batch ID:	172615	Lims Sample ID:	8
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:24	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	87	762307	103.9	
2 Chloromethane	50	1.536	1.536	0.0	89	978702	101.7	
3 Vinyl chloride	62	1.660	1.657	0.003	84	895799	103.7	
5 Bromomethane	94	2.007	2.007	0.0	92	305638	113.0	
6 Chloroethane	64	2.122	2.122	0.0	97	451232	99.9	
7 Dichlorofluoromethane	67	2.408	2.405	0.003	84	1362610	100.7	
8 Trichlorofluoromethane	101	2.446	2.443	0.003	81	1116585	99.8	
10 Acrolein	56	3.009	3.009	0.0	96	2325112	4326.8	
11 1,1-Dichloroethene	96	3.113	3.110	0.003	87	531364	98.1	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.153	3.157	-0.003	83	647515	98.4	
13 Acetone	43	3.229	3.232	-0.003	84	90934	105.1	
15 Carbon disulfide	76	3.341	3.341	0.0	99	2149891	107.3	
16 Acetonitrile	41	3.572	3.578	-0.006	99	304606	756.7	
19 Methylene Chloride	84	3.763	3.763	0.0	94	511318	99.1	
20 Acrylonitrile	53	4.095	4.095	0.0	98	889127	815.8	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	90	610637	100.3	
22 Methyl tert-butyl ether	73	4.170	4.171	0.0	94	1027632	103.0	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	86	1208102	100.8	
25 Vinyl acetate	43	4.815	4.815	0.0	100	879019	103.8	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	79	986077	99.2	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	83	626799	101.7	
30 2-Butanone (MEK)	43	5.522	5.523	-0.001	76	128968	103.1	
31 Propionitrile	54	5.577	5.580	-0.003	98	311165	790.8	
34 Chlorobromomethane	128	5.782	5.783	-0.001	89	236461	97.9	
35 Tetrahydrofuran	42	5.857	5.858	-0.001	85	77379	98.8	
36 Chloroform	83	5.927	5.927	0.0	84	997634	99.9	
$ 37 Dibromofluoromethane	113	6.138	6.141	-0.003	63	555702	102.9	

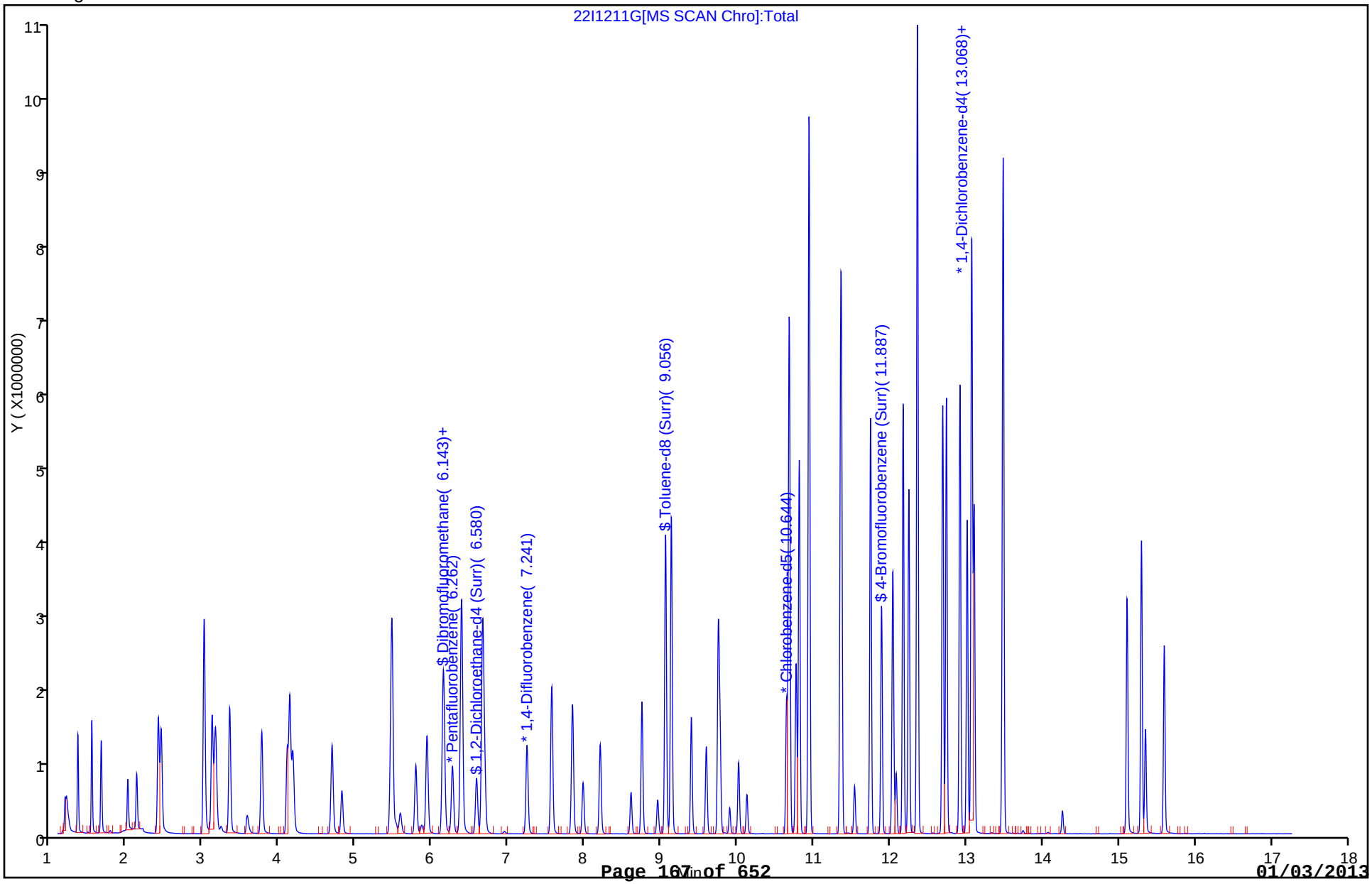
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.146	6.149	-0.003	89	997347	99.6	
* 39 Pentafluorobenzene	168	6.262	6.265	-0.003	91	676821	50.0	
41 Carbon tetrachloride	117	6.375	6.378	-0.003	80	918644	98.3	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	84	876844	99.8	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	538799	99.7	
45 Benzene	78	6.658	6.658	0.0	96	2356179	99.1	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	83	686980	100.4	
* 49 1,4-Difluorobenzene	114	7.241	7.239	0.002	95	967012	50.0	
50 Trichloroethene	130	7.565	7.562	0.003	90	643029	96.4	
53 1,2-Dichloropropane	63	7.836	7.837	-0.001	88	601403	98.6	
54 Dibromomethane	93	7.975	7.975	0.0	91	239384	97.4	
56 Dichlorobromomethane	83	8.200	8.201	-0.001	92	696059	100.0	
58 2-Chloroethyl vinyl ether	63	8.605	8.602	0.003	88	208398	102.2	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	86	794708	100.4	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	96	300182	101.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	82	2322467	101.4	
62 Toluene	92	9.131	9.131	0.0	94	1558816	98.6	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	93	654311	99.7	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	88	322360	96.7	
66 Tetrachloroethene	166	9.749	9.749	0.0	89	720453	96.6	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	95	560890	97.8	
68 2-Hexanone	43	9.896	9.896	0.0	98	206593	104.4	
69 Chlorodibromomethane	129	10.015	10.012	0.003	88	442108	103.4	
70 Ethylene Dibromide	107	10.122	10.122	0.0	99	316106	99.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	73	821734	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	95	1624419	97.7	
73 1-Chlorohexane	91	10.682	10.682	0.0	88	915102	98.5	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	89	568808	101.8	
75 Ethylbenzene	106	10.809	10.809	0.0	98	948132	100.3	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	4783893	203.9	
77 o-Xylene	91	11.349	11.349	0.0	93	2416819	101.0	
78 Styrene	104	11.364	11.361	0.003	91	1886331	102.5	
79 Bromoform	173	11.534	11.534	0.0	98	263003	104.2	
80 Isopropylbenzene	105	11.745	11.742	0.003	98	3109566	95.5	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	840950	102.2	
84 Bromobenzene	156	12.034	12.034	0.0	85	690763	95.3	
85 1,1,2,2-Tetrachloroethane	83	12.046	12.043	0.003	80	357760	94.7	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	54	264488	95.2	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	3820722	97.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	92	2165096	98.3	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	85	2716376	100.0	
89 2-Chlorotoluene	91	12.358	12.358	0.0	94	2595965	99.2	
92 tert-Butylbenzene	119	12.690	12.690	0.0	91	2399839	95.4	
94 1,2,4-Trimethylbenzene	105	12.739	12.736	0.003	69	2676625	100.4	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	3596271	96.7	
96 1,3-Dichlorobenzene	146	13.010	13.011	-0.001	96	1492625	96.4	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	92	3156888	97.7	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	64	491412	50.0	
99 1,4-Dichlorobenzene	146	13.103	13.100	0.003	93	1478508	96.7	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	79	1265519	97.3	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	2864857	99.9	
105 1,2-Dibromo-3-Chloropropane	75	14.258	14.259	-0.001	61	61117	94.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	94	899145	102.0	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	94	682660	91.8	
110 Naphthalene	128	15.348	15.348	0.0	99	960821	99.2	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	91	697002	98.9	
S 113 1,2-Dichloroethene, Total	96				0		201.9	
S 114 Xylenes, Total	100				0		304.9	
S 115 1,3-Dichloropropene, Total	1				0		200.2	
S 116 Trihalomethanes, Total	1				0		407.4	
S 117 Trimethylbenzene, Total	1				0		200.3	

Report Date: 12-Dec-2012 11:37:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211G.D		
Injection Date:	11-Dec-2012 17:13:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	8
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211H.D		
Lims ID:	STD08	Client ID:	
Inject. Date:	11-Dec-2012 17:41:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	STD08		
Misc. Info.:	500-0014322-009		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	9
Lims Batch ID:	172615	Lims Sample ID:	9
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:31	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	88	1110898	142.5	
2 Chloromethane	50	1.536	1.536	0.0	88	1468998	143.7	
3 Vinyl chloride	62	1.660	1.657	0.003	84	1302949	142.0	
5 Bromomethane	94	2.007	2.007	0.0	92	455210	158.4	
6 Chloroethane	64	2.125	2.122	0.003	97	656528	136.8	
7 Dichlorofluoromethane	67	2.408	2.405	0.003	84	2035639	141.7	
8 Trichlorofluoromethane	101	2.443	2.443	0.0	81	1646914	138.6	
10 Acrolein	56	3.009	3.009	0.0	95	3885554	6806.3	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	86	848798	147.5	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.156	3.157	0.0	86	1013020	144.9	
13 Acetone	43	3.232	3.232	0.0	94	148822	161.9	
15 Carbon disulfide	76	3.341	3.341	0.0	99	3185269	149.7	
16 Acetonitrile	41	3.572	3.578	-0.006	99	515971	1206.6	
19 Methylene Chloride	84	3.763	3.763	0.0	94	794285	144.9	
20 Acrylonitrile	53	4.098	4.095	0.003	98	1460725	1261.6	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	89	955652	147.7	
22 Methyl tert-butyl ether	73	4.170	4.171	0.0	97	1589481	150.0	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	86	1877461	147.4	
25 Vinyl acetate	43	4.815	4.815	0.0	100	1367143	152.0	
28 2,2-Dichloropropane	77	5.465	5.462	0.003	77	1552961	147.1	
29 cis-1,2-Dichloroethene	96	5.473	5.473	0.0	84	968176	147.8	
30 2-Butanone (MEK)	43	5.525	5.523	0.002	87	209900	157.9	
31 Propionitrile	54	5.583	5.580	0.003	98	533857	1282.4	
34 Chlorobromomethane	128	5.785	5.783	0.002	79	374570	146.0	
35 Tetrahydrofuran	42	5.860	5.858	0.002	89	123251	148.2	
36 Chloroform	83	5.930	5.927	0.003	84	1553050	146.4	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.0	61	857139	149.4	

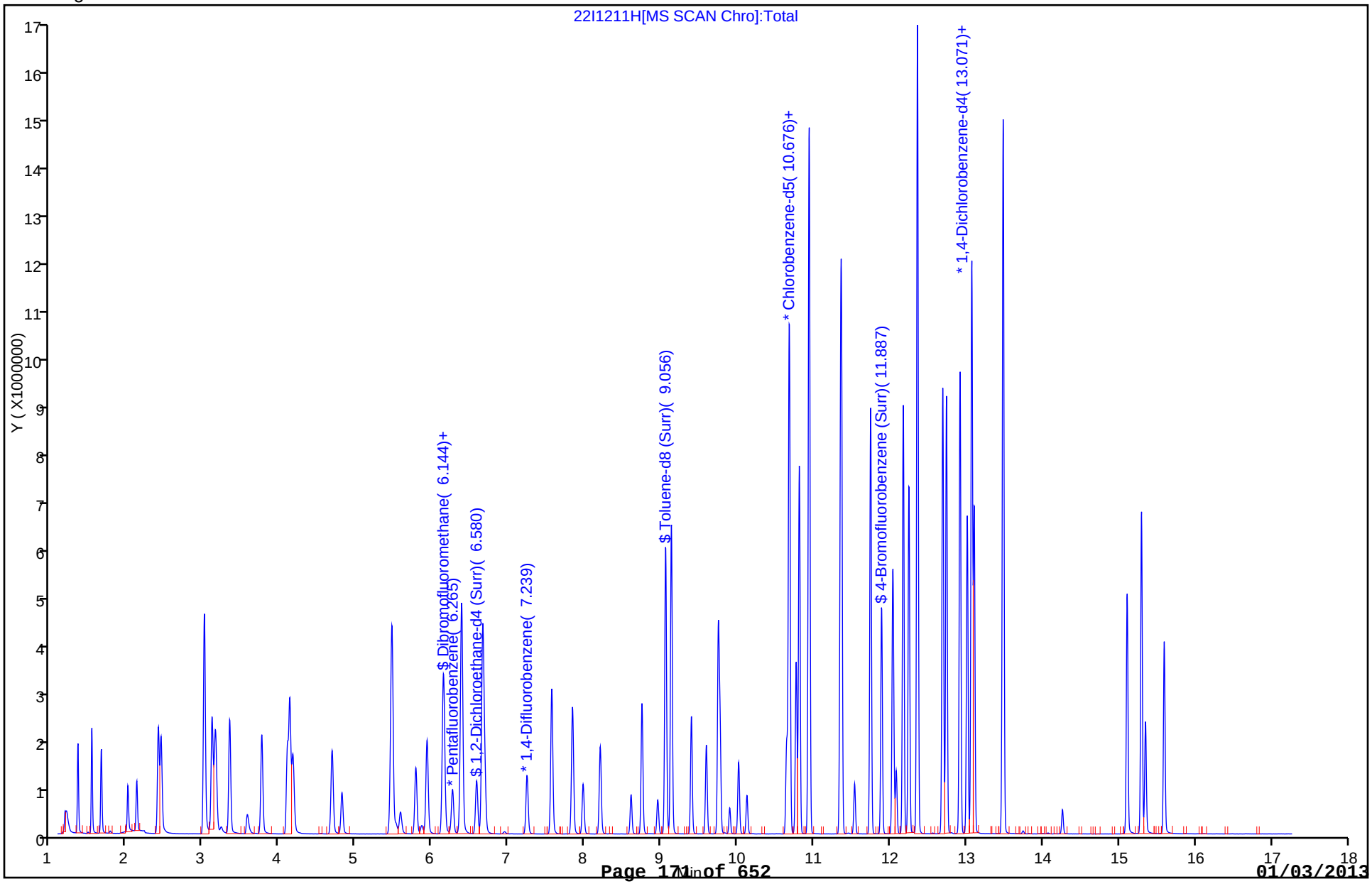
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.147	6.149	-0.003	88	1578989	148.5	
* 39 Pentafluorobenzene	168	6.262	6.265	-0.003	90	719006	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	76	1463204	147.9	
42 1,1-Dichloropropene	75	6.386	6.383	0.003	84	1388026	148.8	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	854290	149.5	
45 Benzene	78	6.661	6.658	0.003	96	3675431	146.1	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	84	1080708	149.4	
* 49 1,4-Difluorobenzene	114	7.241	7.239	0.002	95	1023073	50.0	
50 Trichloroethene	130	7.565	7.562	0.003	89	1009984	143.1	
53 1,2-Dichloropropane	63	7.837	7.837	-0.001	87	948132	147.0	
54 Dibromomethane	93	7.975	7.975	0.0	90	375807	144.5	
56 Dichlorobromomethane	83	8.201	8.201	-0.001	91	1090230	148.0	
58 2-Chloroethyl vinyl ether	63	8.605	8.602	0.003	92	313500	145.4	
59 cis-1,3-Dichloropropene	75	8.747	8.747	0.0	86	1248175	149.1	
60 4-Methyl-2-pentanone (MIBK)	43	8.955	8.952	0.003	96	492445	156.7	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	82	3587473	148.1	
62 Toluene	92	9.134	9.131	0.003	93	2453857	146.7	
63 trans-1,3-Dichloropropene	75	9.397	9.394	0.003	95	1058276	152.5	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	89	519398	147.3	
66 Tetrachloroethene	166	9.749	9.749	0.0	89	1142505	140.5	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	95	913572	146.0	
68 2-Hexanone	43	9.896	9.896	0.0	97	337483	156.4	
69 Chlorodibromomethane	129	10.015	10.012	0.003	87	718959	154.2	
70 Ethylene Dibromide	107	10.122	10.122	0.0	100	499079	147.7	
* 71 Chlorobenzene-d5	117	10.645	10.642	0.003	87	895970	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	95	2599260	143.3	
73 1-Chlorohexane	91	10.682	10.682	0.0	87	1474279	149.3	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	90	929412	152.6	
75 Ethylbenzene	106	10.809	10.809	0.0	98	1510230	146.5	
76 m-Xylene & p-Xylene	91	10.939	10.936	0.003	0	7504852	293.4	
77 o-Xylene	91	11.349	11.349	0.0	93	3921614	150.3	
78 Styrene	104	11.364	11.361	0.003	89	3080454	153.5	
79 Bromoform	173	11.534	11.534	0.0	98	446109	162.0	
80 Isopropylbenzene	105	11.745	11.742	0.003	98	5106365	142.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	1346757	150.2	
84 Bromobenzene	156	12.034	12.034	0.0	94	1135272	141.8	
85 1,1,2,2-Tetrachloroethane	83	12.046	12.043	0.003	78	598529	143.4	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	57	444171	144.8	
88 N-Propylbenzene	91	12.173	12.170	0.003	98	6168362	143.1	
90 4-Chlorotoluene	91	12.248	12.245	0.003	92	3525867	144.9	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	85	4413867	147.0	
89 2-Chlorotoluene	91	12.358	12.358	0.0	94	4248167	147.0	
92 tert-Butylbenzene	119	12.690	12.690	0.0	87	3976419	143.2	
94 1,2,4-Trimethylbenzene	105	12.739	12.736	0.003	66	4370483	148.4	
95 sec-Butylbenzene	105	12.918	12.915	0.003	83	5955880	145.0	
96 1,3-Dichlorobenzene	146	13.011	13.011	0.0	96	2463360	144.1	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	94	5179163	145.2	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	57	542777	50.0	
99 1,4-Dichlorobenzene	146	13.103	13.100	0.003	94	2403110	142.3	
100 1,2-Dichlorobenzene	146	13.479	13.476	0.003	71	2063725	143.7	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	4811328	151.8	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	61	103368	144.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	93	1475044	151.5	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	95	1206171	146.8	
110 Naphthalene	128	15.348	15.348	0.0	98	1657420	154.9	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	93	1171916	150.5	
S 113 1,2-Dichloroethene, Total	96				0		295.5	
S 114 Xylenes, Total	100				0		443.7	
S 115 1,3-Dichloropropene, Total	1				0		301.6	
S 116 Trihalomethanes, Total	1				0		610.7	
S 117 Trimethylbenzene, Total	1				0		295.4	

Report Date: 12-Dec-2012 11:37:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211H.D		
Injection Date:	11-Dec-2012 17:41:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	9
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211I.D		
Lims ID:	STD09	Client ID:	
Inject. Date:	11-Dec-2012 18:09:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	STD09		
Misc. Info.:	500-0014322-010		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	10
Lims Batch ID:	172615	Lims Sample ID:	10
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:37:36	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:37:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	88	1572519	197.9	
2 Chloromethane	50	1.533	1.536	-0.003	88	2055922	197.2	
3 Vinyl chloride	62	1.657	1.657	0.0	84	1853836	198.2	
5 Bromomethane	94	2.007	2.007	0.0	92	654905	223.6	
6 Chloroethane	64	2.122	2.122	0.0	93	899737	183.9	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	84	2806119	191.5	
8 Trichlorofluoromethane	101	2.443	2.443	0.0	81	2285626	188.7	
10 Acrolein	56	3.012	3.009	0.003	96	5276134	9066.2	
11 1,1-Dichloroethene	96	3.113	3.110	0.003	86	1184587	202.0	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.157	3.157	0.001	84	1415755	198.7	
13 Acetone	43	3.232	3.232	0.0	93	196769	209.9	
15 Carbon disulfide	76	3.341	3.341	0.0	99	4391617	202.4	
16 Acetonitrile	41	3.573	3.578	-0.005	100	692080	1587.6	
19 Methylene Chloride	84	3.763	3.763	0.0	93	1131397	202.5	
20 Acrylonitrile	53	4.098	4.095	0.003	98	1990459	1686.4	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	90	1334459	202.3	
22 Methyl tert-butyl ether	73	4.171	4.171	0.001	94	2217547	205.3	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	2663163	205.1	
25 Vinyl acetate	43	4.815	4.815	0.0	100	1947324	212.4	
28 2,2-Dichloropropane	77	5.465	5.462	0.003	76	2191135	203.6	
29 cis-1,2-Dichloroethene	96	5.473	5.473	0.0	84	1363967	204.3	
30 2-Butanone (MEK)	43	5.523	5.523	0.0	76	284336	209.8	
31 Propionitrile	54	5.580	5.580	0.0	99	726579	1723.2	
34 Chlorobromomethane	128	5.783	5.783	0.0	77	519660	198.6	
35 Tetrahydrofuran	42	5.858	5.858	0.0	89	174315	205.6	
36 Chloroform	83	5.927	5.927	0.0	85	2179601	201.6	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.0	67	1182785	202.2	

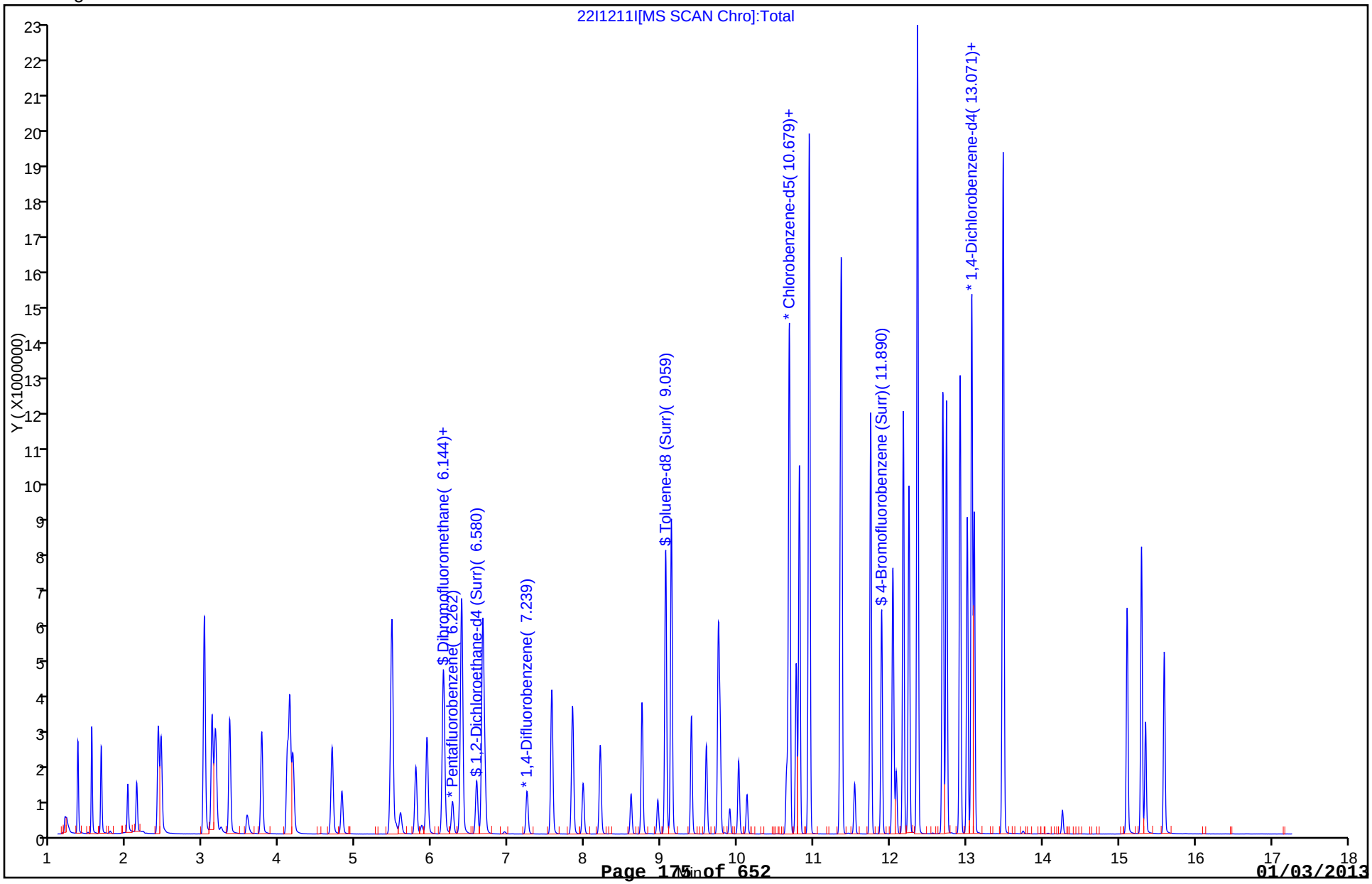
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.147	6.149	-0.002	90	2223267	205.1	
* 39 Pentafluorobenzene	168	6.265	6.265	0.0	74	732965	50.0	
41 Carbon tetrachloride	117	6.378	6.378	0.0	80	2051034	204.7	
42 1,1-Dichloropropene	75	6.386	6.383	0.003	85	1960009	206.1	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	1167924	201.8	
45 Benzene	78	6.661	6.658	0.003	96	5120985	201.0	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	82	1510261	206.1	
* 49 1,4-Difluorobenzene	114	7.239	7.239	0.0	95	1036247	50.0	
50 Trichloroethene	130	7.565	7.562	0.003	90	1411923	197.5	
53 1,2-Dichloropropane	63	7.837	7.837	0.0	85	1325238	202.8	
54 Dibromomethane	93	7.975	7.975	0.0	92	522887	198.5	
56 Dichlorobromomethane	83	8.201	8.201	0.0	91	1527793	204.8	
58 2-Chloroethyl vinyl ether	63	8.605	8.602	0.003	93	436785	200.0	
59 cis-1,3-Dichloropropene	75	8.749	8.747	0.002	86	1745247	205.8	
60 4-Methyl-2-pentanone (MIBK)	43	8.955	8.952	0.003	83	654734	205.7	
$ 61 Toluene-d8 (Surr)	98	9.059	9.056	0.003	75	4898132	199.7	
62 Toluene	92	9.134	9.131	0.003	95	3422834	202.0	
63 trans-1,3-Dichloropropene	75	9.397	9.394	0.003	92	1459268	207.6	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	90	716065	200.5	
66 Tetrachloroethene	166	9.749	9.749	0.0	89	1570157	194.0	
67 1,3-Dichloropropane	76	9.772	9.769	0.003	96	1263367	202.8	
68 2-Hexanone	43	9.896	9.896	0.0	98	453433	211.0	
69 Chlorodibromomethane	129	10.015	10.012	0.003	89	994298	214.1	
70 Ethylene Dibromide	107	10.125	10.122	0.003	99	690159	201.7	
* 71 Chlorobenzene-d5	117	10.645	10.642	0.003	74	892089	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	95	3554021	196.8	
73 1-Chlorohexane	91	10.682	10.682	0.0	88	2004578	199.2	
74 1,1,1,2-Tetrachloroethane	131	10.769	10.769	0.0	87	1279270	210.9	
75 Ethylbenzene	106	10.812	10.809	0.003	98	2077566	202.4	
76 m-Xylene & p-Xylene	91	10.939	10.936	0.003	0	9950024	390.7	
77 o-Xylene	91	11.352	11.349	0.003	91	5406441	208.1	
78 Styrene	104	11.364	11.361	0.003	88	4226631	211.5	
79 Bromoform	173	11.534	11.534	0.0	97	613724	223.9	
80 Isopropylbenzene	105	11.745	11.742	0.003	98	6881199	198.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	89	1814509	203.2	
84 Bromobenzene	156	12.034	12.034	0.0	94	1541345	199.2	
85 1,1,2,2-Tetrachloroethane	83	12.046	12.043	0.003	81	812983	201.5	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	54	613409	206.8	
88 N-Propylbenzene	91	12.173	12.170	0.003	97	8171167	196.1	
90 4-Chlorotoluene	91	12.248	12.245	0.003	92	4776401	203.1	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	85	5925708	204.2	
89 2-Chlorotoluene	91	12.361	12.358	0.003	94	5706737	204.3	
92 tert-Butylbenzene	119	12.693	12.690	0.003	86	5408653	201.5	
94 1,2,4-Trimethylbenzene	105	12.739	12.736	0.003	69	5915680	207.8	
95 sec-Butylbenzene	105	12.918	12.915	0.003	96	7919600	199.5	
96 1,3-Dichlorobenzene	146	13.011	13.011	0.0	96	3287950	199.0	
97 4-Isopropyltoluene	119	13.068	13.068	0.0	92	6891004	199.8	
* 98 1,4-Dichlorobenzene-d4	152	13.080	13.077	0.003	56	524649	50.0	
99 1,4-Dichlorobenzene	146	13.103	13.100	0.003	93	3219268	197.2	
100 1,2-Dichlorobenzene	146	13.479	13.476	0.003	71	2766492	199.2	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	6351852	207.4	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.259	0.0	61	138335	199.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.108	15.108	0.0	93	1901927	202.1	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	1489923	187.6	
110 Naphthalene	128	15.348	15.348	0.0	98	2236810	216.3	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	92	1518870	201.9	
S 113 1,2-Dichloroethene, Total	96				0		406.6	
S 114 Xylenes, Total	100				0		598.7	
S 115 1,3-Dichloropropene, Total	1				0		413.4	
S 116 Trihalomethanes, Total	1				0		844.4	
S 117 Trimethylbenzene, Total	1				0		412.0	

Report Date: 12-Dec-2012 11:37:37 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22I1211I.D		
Injection Date:	11-Dec-2012 18:09:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	10
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: ICV 500-172615/23 Calibration Date: 12/12/2012 00:17

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22S1211.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	0.5420	0.4239	0.0100	39.1	50.0	-21.8	25.0
Chloromethane	Ave	0.7111	0.5561	0.1000	39.1	50.0	-21.8	25.0
Vinyl chloride	Ave	0.6381	0.5920	0.0100	46.4	50.0	-7.2	25.0
Bromomethane	Ave	0.1998	0.1541	0.0100	38.6	50.0	-22.9	25.0
Chloroethane	Ave	0.3338	0.2911	0.0100	43.6	50.0	-12.8	25.0
Dichlorofluoromethane	Ave	0.999	0.8378	0.0100	41.9	50.0	-16.2	25.0
Trichlorofluoromethane	Ave	0.8265	0.7409	0.0100	44.8	50.0	-10.4	25.0
Acrolein	Ave	0.0397	0.0406	0.0010	2040	2000	2.2	25.0
1,1-Dichloroethene	Ave	0.4001	0.3815	0.0100	47.7	50.0	-4.7	25.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4862	0.4598	0.0100	47.3	50.0	-5.4	25.0
Acetone	Ave	0.0639	0.0621	0.0100	48.5	50.0	-2.9	25.0
Carbon disulfide	Ave	1.480	1.369	0.0100	46.3	50.0	-7.5	25.0
Acetonitrile	Ave	0.0297	0.0292	0.0010	393	400	-1.7	25.0
Methylene Chloride	Ave	0.3812	0.3602	0.0100	47.2	50.0	-5.5	25.0
Acrylonitrile	Ave	0.0805	0.0797	0.0010	396	400	-1.0	25.0
trans-1,2-Dichloroethene	Ave	0.4499	0.4398	0.0100	48.9	50.0	-2.3	25.0
Methyl tert-butyl ether	Ave	0.7369	0.6905	0.0100	46.8	50.0	-6.3	25.0
1,1-Dichloroethane	Ave	0.8857	0.8456	0.1000	47.7	50.0	-4.5	25.0
Vinyl acetate	Ave	0.6255	0.6214	0.0100	49.7	50.0	-0.6	25.0
2,2-Dichloropropane	Ave	0.7341	0.6853	0.0100	46.7	50.0	-6.6	25.0
cis-1,2-Dichloroethene	Ave	0.4554	0.4436	0.0100	48.7	50.0	-2.6	25.0
2-Butanone (MEK)	Ave	0.0924	0.0837	0.0100	45.3	50.0	-9.4	25.0
Propionitrile	Ave	0.0203	0.0211	0.0010	414	400	3.5	25.0
Bromochloromethane	Ave	0.1785	0.1638	0.0100	45.9	50.0	-8.2	25.0
Tetrahydrofuran	Ave	0.0578	0.0548	0.0100	47.3	50.0	-5.3	25.0
Chloroform	Ave	0.7375	0.7135	0.0100	48.4	50.0	-3.3	25.0
1,1,1-Trichloroethane	Ave	0.7394	0.7299	0.0100	49.4	50.0	-1.3	25.0
Carbon tetrachloride	Ave	0.4834	0.4652	0.0100	48.1	50.0	-3.8	25.0
1,1-Dichloropropene	Ave	0.6488	0.6138	0.0100	47.3	50.0	-5.4	25.0
Benzene	Ave	1.229	1.148	0.0100	46.7	50.0	-6.6	25.0
1,2-Dichloroethane	Ave	0.3536	0.3244	0.0100	45.9	50.0	-8.3	25.0
Trichloroethene	Ave	0.3450	0.3212	0.0100	46.6	50.0	-6.9	25.0
1,2-Dichloropropane	Ave	0.3152	0.2970	0.0100	47.1	50.0	-5.8	25.0
Dibromomethane	Ave	0.1271	0.1149	0.0100	45.2	50.0	-9.6	25.0
Bromodichloromethane	Ave	0.3600	0.3216	0.0100	44.7	50.0	-10.7	25.0
2-Chloroethyl vinyl ether	Ave	0.1054	0.0957	0.0100	45.4	50.0	-9.2	25.0
cis-1,3-Dichloropropene	Ave	0.4091	0.3814	0.0100	50.1	53.8	-6.8	25.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1536	0.1404	0.0100	45.7	50.0	-8.6	25.0
Toluene	Ave	0.8177	0.7569	0.0100	46.3	50.0	-7.4	25.0
trans-1,3-Dichloropropene	Ave	0.3392	0.3107	0.0100	44.5	48.6	-8.4	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: ICV 500-172615/23 Calibration Date: 12/12/2012 00:17

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22S1211.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
1,1,2-Trichloroethane	Ave	0.1723	0.1573	0.0100	45.6	50.0	-8.7	25.0
Tetrachloroethene	Ave	0.4537	0.4260	0.0100	47.0	50.0	-6.1	25.0
1,3-Dichloropropane	Ave	0.3491	0.3223	0.0100	46.2	50.0	-7.7	25.0
2-Hexanone	Ave	0.1204	0.1135	0.0100	47.1	50.0	-5.7	25.0
Dibromochloromethane	Ave	0.2603	0.2454	0.0100	47.1	50.0	-5.7	25.0
1,2-Dibromoethane	Ave	0.1651	0.1486	0.0100	45.0	50.0	-10.0	25.0
Chlorobenzene	Ave	1.012	0.9004	0.3000	44.5	50.0	-11.0	25.0
1-Chlorohexane	Ave	0.6865	0.6546	0.0100	47.7	50.0	-4.6	25.0
1,1,1,2-Tetrachloroethane	Ave	0.3400	0.3297	0.0100	48.5	50.0	-3.0	25.0
Ethylbenzene	Ave	0.5753	0.5498	0.0100	47.8	50.0	-4.4	25.0
m&p-Xylene	Ave	1.427	1.339	0.0100	93.8	100	-6.2	25.0
o-Xylene	Ave	1.456	1.295	0.0100	44.5	50.0	-11.1	25.0
Styrene	Ave	1.120	1.076	0.0100	48.0	50.0	-3.9	25.0
Bromoform	Ave	0.1536	0.1521	0.1000	49.5	50.0	-1.0	25.0
Isopropylbenzene	Ave	3.312	2.951	0.0100	44.6	50.0	-10.9	25.0
Bromobenzene	Ave	0.7374	0.6901	0.0100	46.8	50.0	-6.4	25.0
1,1,2,2-Tetrachloroethane	Ave	0.3844	0.3650	0.3000	47.5	50.0	-5.1	25.0
1,2,3-Trichloropropane	Ave	0.2827	0.2697	0.0100	47.7	50.0	-4.6	25.0
N-Propylbenzene	Ave	3.971	3.489	0.0100	43.9	50.0	-12.2	25.0
4-Chlorotoluene	Ave	2.242	2.042	0.0100	45.5	50.0	-8.9	25.0
1,3,5-Trimethylbenzene	Ave	2.765	2.737	0.0100	49.5	50.0	-1.0	25.0
2-Chlorotoluene	Ave	2.663	2.355	0.0100	44.2	50.0	-11.6	25.0
tert-Butylbenzene	Ave	2.558	2.302	0.0100	45.0	50.0	-10.0	25.0
1,2,4-Trimethylbenzene	Ave	2.713	2.637	0.0100	48.6	50.0	-2.8	25.0
sec-Butylbenzene	Ave	3.783	3.418	0.0100	45.2	50.0	-9.6	25.0
1,3-Dichlorobenzene	Ave	1.575	1.369	0.0100	43.5	50.0	-13.1	25.0
p-Isopropyltoluene	Ave	3.287	2.935	0.0100	44.6	50.0	-10.7	25.0
1,4-Dichlorobenzene	Ave	1.556	1.454	0.0100	46.7	50.0	-6.6	25.0
1,2-Dichlorobenzene	Ave	1.323	1.190	0.0100	45.0	50.0	-10.1	25.0
n-Butylbenzene	Ave	2.919	2.736	0.0100	46.9	50.0	-6.3	25.0
1,2-Dibromo-3-Chloropropane	Ave	0.0661	0.0567	0.0100	42.9	50.0	-14.2	25.0
1,2,4-Trichlorobenzene	Ave	0.8970	0.7803	0.0100	43.5	50.0	-13.0	25.0
Hexachlorobutadiene	Ave	0.7568	0.6904	0.0100	45.6	50.0	-8.8	25.0
Naphthalene	Ave	0.9856	0.8667	0.0100	44.0	50.0	-12.1	25.0
1,2,3-Trichlorobenzene	Ave	0.7171	0.6586	0.0100	45.9	50.0	-8.2	25.0
Dibromofluoromethane	Ave	0.3990	0.3761	0.0100	47.1	50.0	-5.7	25.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2793	0.2556	0.0100	45.8	50.0	-8.5	25.0
Toluene-d8 (Surr)	Ave	1.184	1.117	0.0100	47.2	50.0	-5.6	25.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.4730	0.0100	47.3	50.0	-5.5	25.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22S1211.D
Lims ID: ICV
Client ID:
Inject. Date: 12-Dec-2012 00:17:30
Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 500-0014322-023
Operator: EA
Instrument ID: CMS22
Purge Vol: 5.000 mL
ALS Bottle#: 23
Lims Batch ID: 172615
Lims Sample ID: 23
Sublist:
Raw Data: Smoothed
Detector: MS SCAN

Method: \\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m
Method Label: TESTAMERICA CHICAGO GC/MS VOA REPORT
Last Update: 12-Dec-2012 11:47:33
Calib Date: 11-Dec-2012 23:48:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D
Limit Group: MSVOA_8260_ICAL_WATER
Integrator: RTE
ID Type: RT Order ID
Column Type:
Column Dia:
Process Host: XAWRK026

First Level Reviewer: alikpalae
Date: 12-Dec-2012 11:47:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	88	327371	39.1	
2 Chloromethane	50	1.533	1.536	-0.003	89	429476	39.1	
3 Vinyl chloride	62	1.660	1.657	0.003	84	457199	46.4	
5 Bromomethane	94	2.010	2.007	0.003	91	118985	38.6	
6 Chloroethane	64	2.122	2.122	0.0	97	224822	43.6	
7 Dichlorofluoromethane	67	2.402	2.405	-0.003	84	647027	41.9	
8 Trichlorofluoromethane	101	2.434	2.443	-0.009	81	572179	44.8	
9 Ethyl ether	59	2.885	2.882	0.003	97	194347	48.3	
10 Acrolein	56	3.015	3.009	0.006	94	1253247	2043.9	
11 1,1-Dichloroethene	96	3.107	3.110	-0.003	86	294602	47.7	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.151	3.157	-0.005	86	355074	47.3	
13 Acetone	43	3.249	3.232	0.017	51	47923	48.5	
14 Iodomethane	142	3.272	3.275	-0.003	99	531238	52.8	
15 Carbon disulfide	76	3.336	3.341	-0.005	99	1057386	46.3	
16 Acetonitrile	41	3.590	3.578	0.012	100	180674	393.4	
18 Methyl acetate	43	3.682	3.677	0.005	96	111996	34.1	
19 Methylene Chloride	84	3.763	3.763	0.0	93	278131	47.2	
20 Acrylonitrile	53	4.104	4.095	0.009	96	492418	396.0	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	91	339636	48.9	
22 Methyl tert-butyl ether	73	4.176	4.171	0.006	88	533228	46.8	
23 Hexane	57	4.534	4.535	-0.001	95	696527	51.5	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	653007	47.7	
25 Vinyl acetate	43	4.818	4.815	0.003	100	479921	49.7	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	77	529268	46.7	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	84	342564	48.7	
30 2-Butanone (MEK)	43	5.528	5.523	0.005	85	64652	45.3	
31 Propionitrile	54	5.583	5.580	0.003	97	185190	413.8	

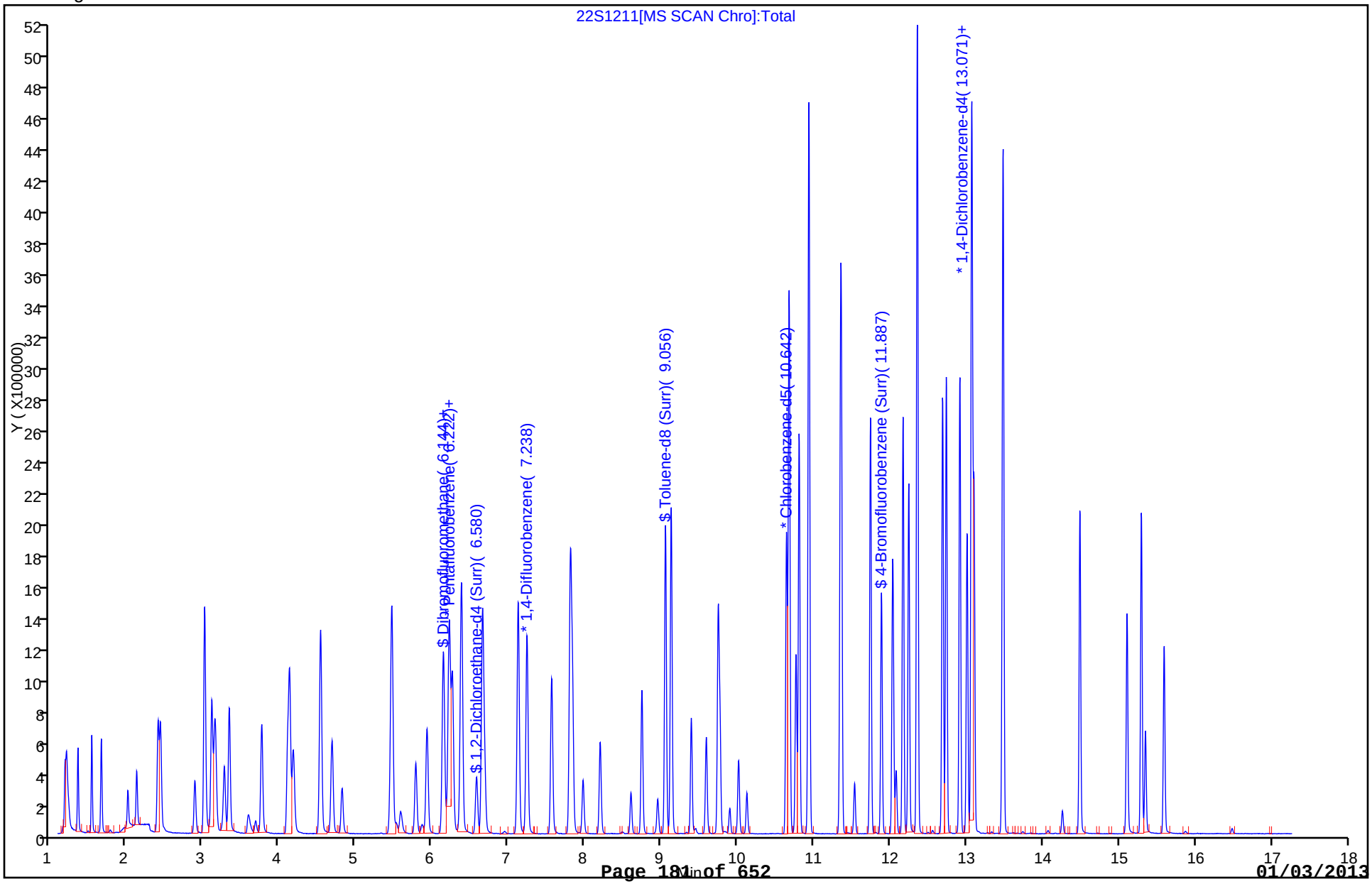
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
34 Chlorobromomethane	128	5.782	5.783	-0.001	76	126505	45.9	
35 Tetrahydrofuran	42	5.866	5.858	0.008	91	42284	47.3	
36 Chloroform	83	5.930	5.927	0.003	84	551023	48.4	
$ 37 Dibromofluoromethane	113	6.138	6.141	-0.003	44	290466	47.1	
38 1,1,1-Trichloroethane	97	6.146	6.149	-0.003	77	563647	49.4	
40 Cyclohexane	56	6.222	6.225	-0.003	92	816640	49.4	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	62	772269	50.0	
41 Carbon tetrachloride	117	6.375	6.378	-0.003	78	511673	48.1	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	86	473999	47.3	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	281098	45.8	
45 Benzene	78	6.658	6.658	0.0	97	1262249	46.7	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	83	356731	45.9	
48 n-Heptane	43	7.123	7.123	0.0	97	761325	47.1	
* 49 1,4-Difluorobenzene	114	7.238	7.239	-0.001	95	1099840	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	90	353263	46.6	
52 Methylcyclohexane	83	7.808	7.808	0.0	94	667465	50.8	
53 1,2-Dichloropropane	63	7.836	7.837	-0.001	83	326604	47.1	
54 Dibromomethane	93	7.975	7.975	0.0	90	126374	45.2	
56 Dichlorobromomethane	83	8.200	8.201	-0.001	97	353685	44.7	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	105254	45.4	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	86	450911	50.1	
60 4-Methyl-2-pentanone (MIBK)	43	8.954	8.952	0.002	82	154455	45.7	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	93	1228760	47.2	
62 Toluene	92	9.131	9.131	0.0	94	832480	46.3	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	332310	44.5	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	86	173032	45.6	
66 Tetrachloroethene	166	9.746	9.749	-0.003	90	396917	47.0	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	96	300236	46.2	
68 2-Hexanone	43	9.899	9.896	0.003	95	105755	47.1	
69 Chlorodibromomethane	129	10.015	10.012	0.003	88	228615	47.1	
70 Ethylene Dibromide	107	10.122	10.122	0.0	97	163389	45.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	89	931671	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	92	838873	44.5	
73 1-Chlorohexane	91	10.679	10.682	-0.003	90	505561	47.7	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	86	307157	48.5	
75 Ethylbenzene	106	10.806	10.809	-0.003	98	512187	47.8	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2494369	93.8	
77 o-Xylene	91	11.349	11.349	0.0	91	1206401	44.5	
78 Styrene	104	11.361	11.361	0.0	90	1002482	48.0	
79 Bromoform	173	11.534	11.534	0.0	97	141710	49.5	
80 Isopropylbenzene	105	11.742	11.742	0.0	98	1599752	44.6	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	440718	47.3	
84 Bromobenzene	156	12.034	12.034	0.0	83	374069	46.8	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	72	197825	47.5	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	54	146202	47.7	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	1891101	43.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	93	1106731	45.5	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	87	1483533	49.5	
89 2-Chlorotoluene	91	12.358	12.358	0.0	92	1276480	44.2	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	90	1248053	45.0	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	69	1429502	48.6	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	1852835	45.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	88	741813	43.5	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	96	1590958	44.6	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	93	542063	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	788140	46.7	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	74	645203	45.0	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	1483109	46.9	
105 1,2-Dibromo-3-Chloropropane	75	14.258	14.259	-0.001	64	30751	42.9	
107 1,3,5-Trichlorobenzene	180	14.487	14.490	-0.003	95	618064	46.5	
108 1,2,4-Trichlorobenzene	180	15.105	15.108	-0.003	93	422987	43.5	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	374244	45.6	
110 Naphthalene	128	15.348	15.348	0.0	97	469783	44.0	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	356979	45.9	
S 113 1,2-Dichloroethene, Total	96				0		97.6	
S 114 Xylenes, Total	100				0		138.2	

Report Date: 12-Dec-2012 11:47:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22S1211.D		
Injection Date:	12-Dec-2012 00:17:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	23
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: ICV 500-172615/23 Calibration Date: 12/12/2012 00:17

Instrument ID: CMS22 Calib Start Date: 12/11/2012 19:06

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 23:48

Lab File ID: 22S1211.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
Ethyl ether	Ave	0.2603	0.2517	0.0100	48.3	50.0	-3.3	25.0
Iodomethane	Lin1		0.6879	0.0100	52.8	50.0	5.6	25.0
Methyl acetate	Ave	0.2127	0.1450	0.0100	34.1	50.0	-31.8*	25.0
Hexane	Ave	0.8764	0.9019	0.0100	51.5	50.0	2.9	25.0
Cyclohexane	Lin1		1.057	0.0100	49.4	50.0	-1.2	25.0
Heptane	Ave	0.7351	0.6922	0.0100	47.1	50.0	-5.8	25.0
Methylcyclohexane	Ave	0.5969	0.6069	0.0100	50.8	50.0	1.7	25.0
1,3,5-Trichlorobenzene	Ave	1.226	1.140	0.0100	46.5	50.0	-7.0	25.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22S1211.D
Lims ID: ICV Client ID:
Inject. Date: 12-Dec-2012 00:17:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 500-0014322-023
Operator: EA Instrument ID: CMS22
Purge Vol: 5.000 mL ALS Bottle#: 23
Lims Batch ID: 172615 Lims Sample ID: 23
Sublist:
Raw Data: Smoothed
Detector: MS SCAN

Method: \\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m
Method Label: TESTAMERICA CHICAGO GC/MS VOA REPORT
Last Update: 12-Dec-2012 11:47:33 Calib Date: 11-Dec-2012 23:48:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D
Limit Group: MSVOA_8260_ICAL_WATER
Integrator: RTE ID Type: RT Order ID
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:47:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.354	1.351	0.003	88	327371	39.1	
2 Chloromethane	50	1.533	1.536	-0.003	89	429476	39.1	
3 Vinyl chloride	62	1.660	1.657	0.003	84	457199	46.4	
5 Bromomethane	94	2.010	2.007	0.003	91	118985	38.6	
6 Chloroethane	64	2.122	2.122	0.0	97	224822	43.6	
7 Dichlorofluoromethane	67	2.402	2.405	-0.003	84	647027	41.9	
8 Trichlorofluoromethane	101	2.434	2.443	-0.009	81	572179	44.8	
9 Ethyl ether	59	2.885	2.882	0.003	97	194347	48.3	
10 Acrolein	56	3.015	3.009	0.006	94	1253247	2043.9	
11 1,1-Dichloroethene	96	3.107	3.110	-0.003	86	294602	47.7	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.151	3.157	-0.005	86	355074	47.3	
13 Acetone	43	3.249	3.232	0.017	51	47923	48.5	
14 Iodomethane	142	3.272	3.275	-0.003	99	531238	52.8	
15 Carbon disulfide	76	3.336	3.341	-0.005	99	1057386	46.3	
16 Acetonitrile	41	3.590	3.578	0.012	100	180674	393.4	
18 Methyl acetate	43	3.682	3.677	0.005	96	111996	34.1	
19 Methylene Chloride	84	3.763	3.763	0.0	93	278131	47.2	
20 Acrylonitrile	53	4.104	4.095	0.009	96	492418	396.0	
21 trans-1,2-Dichloroethene	96	4.130	4.130	0.0	91	339636	48.9	
22 Methyl tert-butyl ether	73	4.176	4.171	0.006	88	533228	46.8	
23 Hexane	57	4.534	4.535	-0.001	95	696527	51.5	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	653007	47.7	
25 Vinyl acetate	43	4.818	4.815	0.003	100	479921	49.7	
28 2,2-Dichloropropane	77	5.462	5.462	0.0	77	529268	46.7	
29 cis-1,2-Dichloroethene	96	5.470	5.473	-0.003	84	342564	48.7	
30 2-Butanone (MEK)	43	5.528	5.523	0.005	85	64652	45.3	
31 Propionitrile	54	5.583	5.580	0.003	97	185190	413.8	

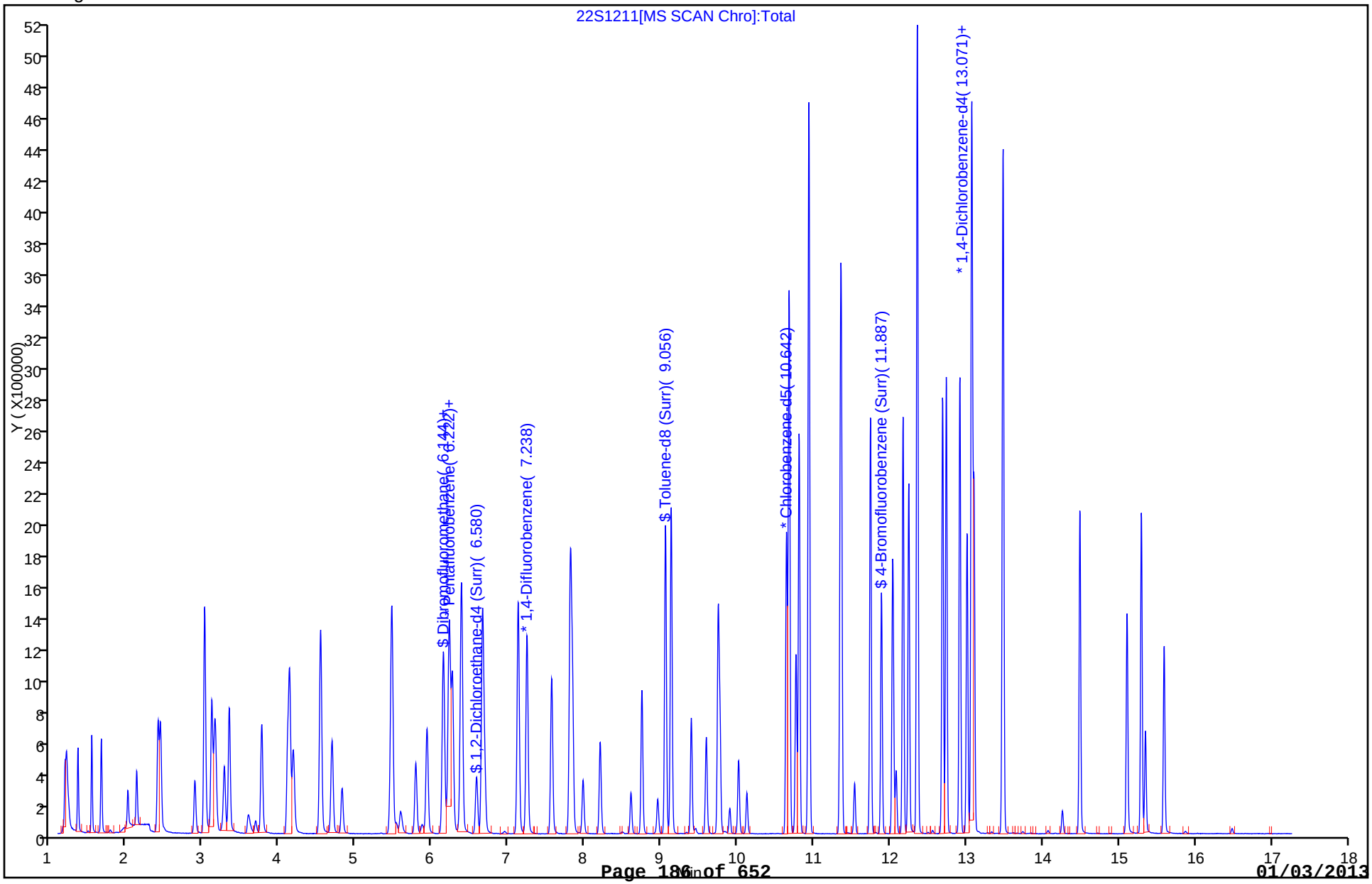
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
34 Chlorobromomethane	128	5.782	5.783	-0.001	76	126505	45.9	
35 Tetrahydrofuran	42	5.866	5.858	0.008	91	42284	47.3	
36 Chloroform	83	5.930	5.927	0.003	84	551023	48.4	
$ 37 Dibromofluoromethane	113	6.138	6.141	-0.003	44	290466	47.1	
38 1,1,1-Trichloroethane	97	6.146	6.149	-0.003	77	563647	49.4	
40 Cyclohexane	56	6.222	6.225	-0.003	92	816640	49.4	
* 39 Pentafluorobenzene	168	6.262	6.262	0.0	62	772269	50.0	
41 Carbon tetrachloride	117	6.375	6.378	-0.003	78	511673	48.1	
42 1,1-Dichloropropene	75	6.383	6.383	0.0	86	473999	47.3	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	281098	45.8	
45 Benzene	78	6.658	6.658	0.0	97	1262249	46.7	
46 1,2-Dichloroethane	62	6.684	6.684	0.0	83	356731	45.9	
48 n-Heptane	43	7.123	7.123	0.0	97	761325	47.1	
* 49 1,4-Difluorobenzene	114	7.238	7.239	-0.001	95	1099840	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	90	353263	46.6	
52 Methylcyclohexane	83	7.808	7.808	0.0	94	667465	50.8	
53 1,2-Dichloropropane	63	7.836	7.837	-0.001	83	326604	47.1	
54 Dibromomethane	93	7.975	7.975	0.0	90	126374	45.2	
56 Dichlorobromomethane	83	8.200	8.201	-0.001	97	353685	44.7	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	105254	45.4	
59 cis-1,3-Dichloropropene	75	8.746	8.747	-0.001	86	450911	50.1	
60 4-Methyl-2-pentanone (MIBK)	43	8.954	8.952	0.002	82	154455	45.7	
$ 61 Toluene-d8 (Surr)	98	9.056	9.056	0.0	93	1228760	47.2	
62 Toluene	92	9.131	9.131	0.0	94	832480	46.3	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	332310	44.5	
65 1,1,2-Trichloroethane	97	9.590	9.590	0.0	86	173032	45.6	
66 Tetrachloroethene	166	9.746	9.749	-0.003	90	396917	47.0	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	96	300236	46.2	
68 2-Hexanone	43	9.899	9.896	0.003	95	105755	47.1	
69 Chlorodibromomethane	129	10.015	10.012	0.003	88	228615	47.1	
70 Ethylene Dibromide	107	10.122	10.122	0.0	97	163389	45.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	89	931671	50.0	
72 Chlorobenzene	112	10.673	10.673	0.0	92	838873	44.5	
73 1-Chlorohexane	91	10.679	10.682	-0.003	90	505561	47.7	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.769	-0.003	86	307157	48.5	
75 Ethylbenzene	106	10.806	10.809	-0.003	98	512187	47.8	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2494369	93.8	
77 o-Xylene	91	11.349	11.349	0.0	91	1206401	44.5	
78 Styrene	104	11.361	11.361	0.0	90	1002482	48.0	
79 Bromoform	173	11.534	11.534	0.0	97	141710	49.5	
80 Isopropylbenzene	105	11.742	11.742	0.0	98	1599752	44.6	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	440718	47.3	
84 Bromobenzene	156	12.034	12.034	0.0	83	374069	46.8	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	72	197825	47.5	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	54	146202	47.7	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	1891101	43.9	
90 4-Chlorotoluene	91	12.245	12.245	0.0	93	1106731	45.5	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	87	1483533	49.5	
89 2-Chlorotoluene	91	12.358	12.358	0.0	92	1276480	44.2	
92 tert-Butylbenzene	119	12.687	12.690	-0.003	90	1248053	45.0	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	69	1429502	48.6	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	1852835	45.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
96 1,3-Dichlorobenzene	146	13.008	13.011	-0.003	88	741813	43.5	
97 4-Isopropyltoluene	119	13.065	13.068	-0.003	96	1590958	44.6	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	93	542063	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	788140	46.7	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	74	645203	45.0	
101 n-Butylbenzene	91	13.484	13.481	0.003	95	1483109	46.9	
105 1,2-Dibromo-3-Chloropropane	75	14.258	14.259	-0.001	64	30751	42.9	
107 1,3,5-Trichlorobenzene	180	14.487	14.490	-0.003	95	618064	46.5	
108 1,2,4-Trichlorobenzene	180	15.105	15.108	-0.003	93	422987	43.5	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	93	374244	45.6	
110 Naphthalene	128	15.348	15.348	0.0	97	469783	44.0	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	356979	45.9	
S 113 1,2-Dichloroethene, Total	96				0		97.6	
S 114 Xylenes, Total	100				0		138.2	

Report Date: 12-Dec-2012 11:47:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22S1211.D		
Injection Date:	12-Dec-2012 00:17:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	23
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: CCV 500-172880/2 Calibration Date: 12/13/2012 11:40

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22C1213.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	0.5420	0.5338	0.0100	49.2	50.0	-1.5	50.0
Chloromethane	Ave	0.7111	0.6697	0.1000	47.1	50.0	-5.8	50.0
Vinyl chloride	Ave	0.6381	0.6245	0.0100	48.9	50.0	-2.1	20.0
Bromomethane	Ave	0.1998	0.2221	0.0100	55.6	50.0	11.1	50.0
Chloroethane	Ave	0.3338	0.3231	0.0100	48.4	50.0	-3.2	50.0
Dichlorofluoromethane	Ave	0.999	0.9535	0.0100	47.7	50.0	-4.6	50.0
Trichlorofluoromethane	Ave	0.8265	0.8111	0.0100	49.1	50.0	-1.9	50.0
Acrolein	Ave	0.0397	0.0382	0.0010	1920	2000	-3.9	50.0
1,1-Dichloroethene	Ave	0.4001	0.4128	0.0100	51.6	50.0	3.2	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4862	0.5026	0.0100	51.7	50.0	3.4	50.0
Acetone	Ave	0.0639	0.0558	0.0100	43.6	50.0	-12.8	50.0
Carbon disulfide	Ave	1.480	1.336	0.0100	45.1	50.0	-9.7	50.0
Acetonitrile	Ave	0.0297	0.0258	0.0010	347	400	-13.3	50.0
Methylene Chloride	Ave	0.3812	0.3828	0.0100	50.2	50.0	0.4	50.0
Acrylonitrile	Ave	0.0805	0.0728	0.0010	362	400	-9.5	50.0
trans-1,2-Dichloroethene	Ave	0.4499	0.4608	0.0100	51.2	50.0	2.4	50.0
Methyl tert-butyl ether	Ave	0.7369	0.7227	0.0100	49.0	50.0	-1.9	50.0
1,1-Dichloroethane	Ave	0.8857	0.8841	0.1000	49.9	50.0	-0.2	50.0
Vinyl acetate	Ave	0.6255	0.5422	0.0100	43.3	50.0	-13.3	50.0
2,2-Dichloropropane	Ave	0.7341	0.7463	0.0100	50.8	50.0	1.7	50.0
cis-1,2-Dichloroethene	Ave	0.4554	0.4710	0.0100	51.7	50.0	3.4	50.0
2-Butanone (MEK)	Ave	0.0924	0.0799	0.0100	43.2	50.0	-13.5	50.0
Propionitrile	Ave	0.0203	0.0181	0.0010	356	400	-10.9	50.0
Bromochloromethane	Ave	0.1785	0.1803	0.0100	50.5	50.0	1.0	50.0
Tetrahydrofuran	Ave	0.0578	0.0574	0.0100	49.6	50.0	-0.7	50.0
Chloroform	Ave	0.7375	0.7437	0.0100	50.4	50.0	0.8	20.0
1,1,1-Trichloroethane	Ave	0.7394	0.7493	0.0100	50.7	50.0	1.3	50.0
Carbon tetrachloride	Ave	0.4834	0.4939	0.0100	51.1	50.0	2.2	50.0
1,1-Dichloropropene	Ave	0.6488	0.6749	0.0100	52.0	50.0	4.0	50.0
Benzene	Ave	1.229	1.261	0.0100	51.3	50.0	2.5	50.0
1,2-Dichloroethane	Ave	0.3536	0.3610	0.0100	51.0	50.0	2.1	50.0
Trichloroethene	Ave	0.3450	0.3570	0.0100	51.7	50.0	3.5	50.0
1,2-Dichloropropane	Ave	0.3152	0.3182	0.0100	50.5	50.0	0.9	20.0
Dibromomethane	Ave	0.1271	0.1288	0.0100	50.7	50.0	1.3	50.0
Bromodichloromethane	Ave	0.3600	0.3677	0.0100	51.1	50.0	2.2	50.0
2-Chloroethyl vinyl ether	Ave	0.1054	0.1132	0.0100	53.7	50.0	7.4	50.0
cis-1,3-Dichloropropene	Ave	0.4091	0.4233	0.0100	51.7	50.0	3.5	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1536	0.1405	0.0100	45.7	50.0	-8.6	50.0
Toluene	Ave	0.8177	0.8458	0.0100	51.7	50.0	3.4	20.0
trans-1,3-Dichloropropene	Ave	0.3392	0.3421	0.0100	50.4	50.0	0.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: CCV 500-172880/2 Calibration Date: 12/13/2012 11:40

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22C1213.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
1,1,2-Trichloroethane	Ave	0.1723	0.1765	0.0100	51.2	50.0	2.4	50.0
Tetrachloroethene	Ave	0.4537	0.4632	0.0100	51.0	50.0	2.1	50.0
1,3-Dichloropropane	Ave	0.3491	0.3626	0.0100	51.9	50.0	3.9	50.0
2-Hexanone	Ave	0.1204	0.1131	0.0100	47.0	50.0	-6.1	50.0
Dibromochloromethane	Ave	0.2603	0.2757	0.0100	53.0	50.0	5.9	50.0
1,2-Dibromoethane	Ave	0.1651	0.1701	0.0100	51.5	50.0	3.0	50.0
Chlorobenzene	Ave	1.012	1.041	0.3000	51.4	50.0	2.9	50.0
1-Chlorohexane	Ave	0.6865	0.7024	0.0100	51.2	50.0	2.3	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3400	0.3544	0.0100	52.1	50.0	4.2	50.0
Ethylbenzene	Ave	0.5753	0.6003	0.0100	52.2	50.0	4.3	20.0
m&p-Xylene	Ave	1.427	1.512	0.0100	106	100	5.9	50.0
o-Xylene	Ave	1.456	1.500	0.0100	51.5	50.0	3.0	50.0
Styrene	Ave	1.120	1.177	0.0100	52.5	50.0	5.1	50.0
Bromoform	Ave	0.1536	0.1668	0.1000	54.3	50.0	8.6	50.0
Isopropylbenzene	Ave	3.312	3.294	0.0100	49.7	50.0	-0.5	50.0
Bromobenzene	Ave	0.7374	0.7428	0.0100	50.4	50.0	0.7	50.0
1,1,2,2-Tetrachloroethane	Ave	0.3844	0.3896	0.3000	50.7	50.0	1.4	50.0
1,2,3-Trichloropropane	Ave	0.2827	0.2926	0.0100	51.8	50.0	3.5	50.0
N-Propylbenzene	Ave	3.971	4.021	0.0100	50.6	50.0	1.3	50.0
4-Chlorotoluene	Ave	2.242	2.261	0.0100	50.4	50.0	0.9	50.0
1,3,5-Trimethylbenzene	Ave	2.765	2.824	0.0100	51.1	50.0	2.1	50.0
2-Chlorotoluene	Ave	2.663	2.687	0.0100	50.5	50.0	0.9	50.0
tert-Butylbenzene	Ave	2.558	2.553	0.0100	49.9	50.0	-0.2	50.0
1,2,4-Trimethylbenzene	Ave	2.713	2.748	0.0100	50.6	50.0	1.3	50.0
sec-Butylbenzene	Ave	3.783	3.833	0.0100	50.7	50.0	1.3	50.0
1,3-Dichlorobenzene	Ave	1.575	1.609	0.0100	51.1	50.0	2.2	50.0
p-Isopropyltoluene	Ave	3.287	3.338	0.0100	50.8	50.0	1.6	50.0
1,4-Dichlorobenzene	Ave	1.556	1.593	0.0100	51.2	50.0	2.4	50.0
1,2-Dichlorobenzene	Ave	1.323	1.354	0.0100	51.2	50.0	2.3	50.0
n-Butylbenzene	Ave	2.919	3.043	0.0100	52.1	50.0	4.2	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0661	0.0612	0.0100	46.3	50.0	-7.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8970	0.9077	0.0100	50.6	50.0	1.2	50.0
Hexachlorobutadiene	Ave	0.7568	0.7747	0.0100	51.2	50.0	2.4	50.0
Naphthalene	Ave	0.9856	0.9469	0.0100	48.0	50.0	-3.9	50.0
1,2,3-Trichlorobenzene	Ave	0.7171	0.6971	0.0100	48.6	50.0	-2.8	50.0
Dibromofluoromethane	Ave	0.3990	0.3878	0.0100	48.6	50.0	-2.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2793	0.2633	0.0100	47.1	50.0	-5.7	50.0
Toluene-d8 (Surr)	Ave	1.184	1.185	0.0100	50.0	50.0	0.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.4903	0.0100	49.0	50.0	-2.1	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22C1213.D		
Lims ID:	CCV	Client ID:	
Inject. Date:	13-Dec-2012 11:40:30	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	CCV		
Misc. Info.:	500-0014364-002		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	172880	Lims Sample ID:	2
Sublist:	chrom-8260W22*sub9		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 12:13:29	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: alikpalae Date: 13-Dec-2012 12:13:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	88	428827	49.2	
2 Chloromethane	50	1.533	1.533	0.0	88	538063	47.1	
3 Vinyl chloride	62	1.657	1.657	0.0	84	501709	48.9	
5 Bromomethane	94	2.004	2.004	0.0	89	178394	55.6	
6 Chloroethane	64	2.122	2.122	0.0	93	259566	48.4	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	84	766086	47.7	
8 Trichlorofluoromethane	101	2.440	2.440	0.0	81	651620	49.1	
10 Acrolein	56	3.003	3.003	0.0	96	1226127	1922.2	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	85	331653	51.6	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.151	3.151	0.0	85	403772	51.7	
13 Acetone	43	3.226	3.226	0.0	97	44811	43.6	
15 Carbon disulfide	76	3.338	3.338	0.0	99	1073075	45.1	
16 Acetonitrile	41	3.570	3.570	0.0	98	165686	346.7	
19 Methylene Chloride	84	3.757	3.757	0.0	93	307569	50.2	
20 Acrylonitrile	53	4.092	4.092	0.0	98	468173	361.9	
21 trans-1,2-Dichloroethene	96	4.127	4.127	0.0	90	370183	51.2	
22 Methyl tert-butyl ether	73	4.168	4.168	0.0	93	580611	49.0	
24 1,1-Dichloroethane	63	4.682	4.682	0.0	86	710309	49.9	
25 Vinyl acetate	43	4.809	4.809	0.0	100	435637	43.3	
28 2,2-Dichloropropane	77	5.459	5.459	0.0	80	599614	50.8	
29 cis-1,2-Dichloroethene	96	5.468	5.468	0.0	83	378416	51.7	
30 2-Butanone (MEK)	43	5.520	5.520	0.0	88	64211	43.2	
31 Propionitrile	54	5.574	5.574	0.0	98	162309	356.2	
34 Chlorobromomethane	128	5.782	5.782	0.0	91	144876	50.5	
35 Tetrahydrofuran	42	5.860	5.860	0.0	85	46139	49.6	
36 Chloroform	83	5.927	5.927	0.0	83	597478	50.4	
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	57	311539	48.6	

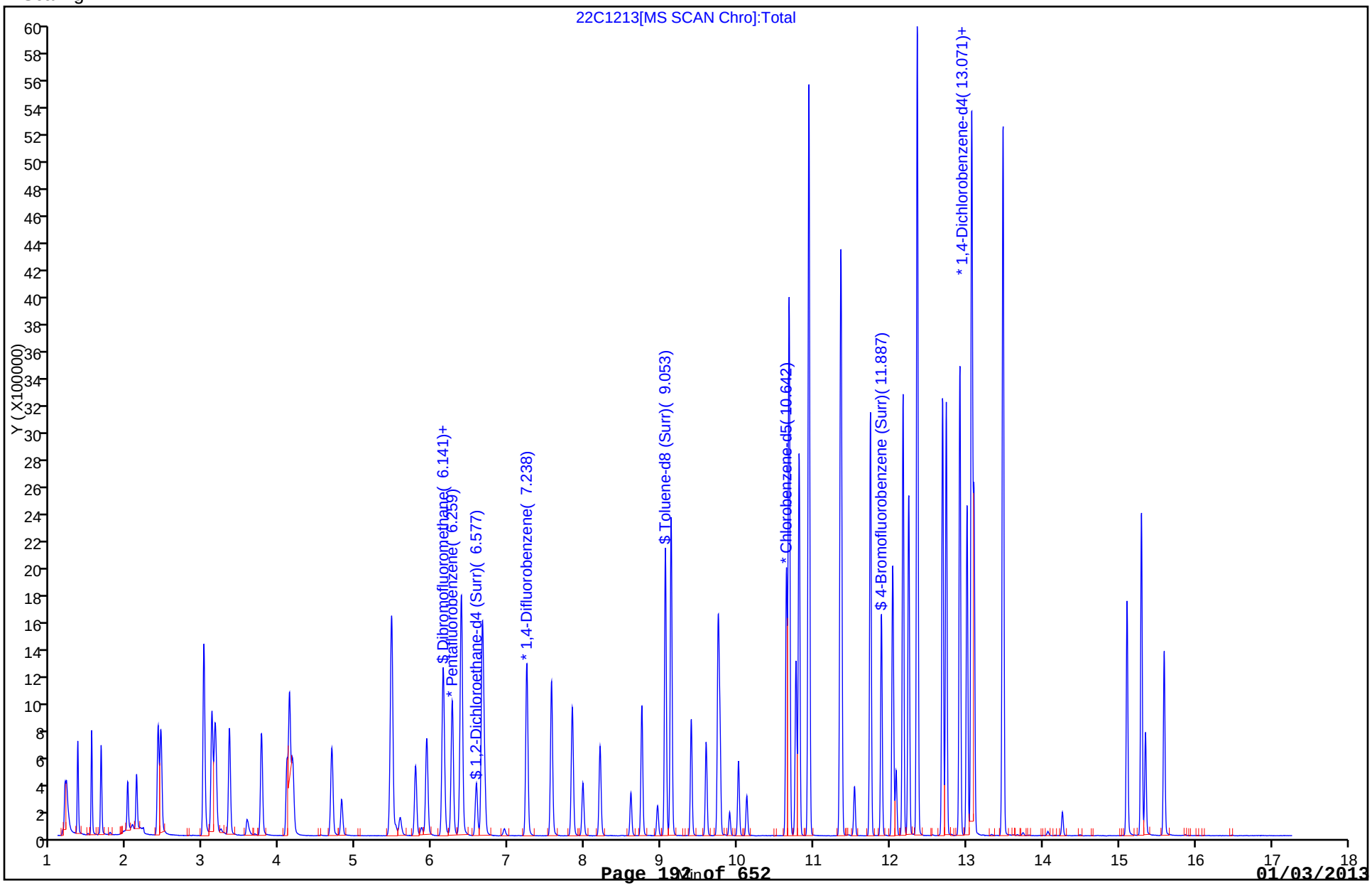
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
38 1,1,1-Trichloroethane	97	6.144	6.144	0.0	93	601998	50.7	
* 39 Pentafluorobenzene	168	6.259	6.259	0.0	91	803413	50.0	
41 Carbon tetrachloride	117	6.375	6.375	0.0	79	553088	51.1	
42 1,1-Dichloropropene	75	6.380	6.380	0.0	87	542197	52.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	294893	47.1	
45 Benzene	78	6.655	6.655	0.0	97	1411676	51.3	
46 1,2-Dichloroethane	62	6.678	6.678	0.0	79	404314	51.0	
* 49 1,4-Difluorobenzene	114	7.236	7.236	0.0	95	1119844	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	91	399826	51.7	
53 1,2-Dichloropropane	63	7.834	7.834	0.0	88	356355	50.5	
54 Dibromomethane	93	7.972	7.972	0.0	90	144194	50.7	
56 Dichlorobromomethane	83	8.198	8.198	0.0	91	411783	51.1	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	126736	53.7	
59 cis-1,3-Dichloropropene	75	8.746	8.746	0.0	87	474059	51.7	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	83	157282	45.7	
$ 61 Toluene-d8 (Surr)	98	9.053	9.053	0.0	92	1326791	50.0	
62 Toluene	92	9.131	9.131	0.0	89	947128	51.7	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	94	383116	50.4	
65 1,1,2-Trichloroethane	97	9.587	9.587	0.0	88	197668	51.2	
66 Tetrachloroethene	166	9.746	9.746	0.0	90	445599	51.0	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	96	348794	51.9	
68 2-Hexanone	43	9.896	9.896	0.0	98	108835	47.0	
69 Chlorodibromomethane	129	10.012	10.012	0.0	87	265179	53.0	
70 Ethylene Dibromide	107	10.122	10.122	0.0	98	190496	51.5	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	77	962009	50.0	
72 Chlorobenzene	112	10.671	10.671	0.0	95	1001505	51.4	
73 1-Chlorohexane	91	10.679	10.679	0.0	88	564300	51.2	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.766	0.0	89	340904	52.1	
75 Ethylbenzene	106	10.806	10.806	0.0	97	577499	52.2	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2908477	105.9	
77 o-Xylene	91	11.349	11.349	0.0	91	1442652	51.5	
78 Styrene	104	11.361	11.361	0.0	90	1132078	52.5	
79 Bromoform	173	11.531	11.531	0.0	97	160452	54.3	
80 Isopropylbenzene	105	11.742	11.742	0.0	99	1898378	49.7	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	471621	49.0	
84 Bromobenzene	156	12.034	12.034	0.0	84	428082	50.4	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	74	224554	50.7	
86 1,2,3-Trichloropropane	75	12.077	12.077	0.0	53	168632	51.8	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	2317586	50.6	
90 4-Chlorotoluene	91	12.245	12.245	0.0	92	1303342	50.4	
91 1,3,5-Trimethylbenzene	105	12.355	12.355	0.0	86	1627773	51.1	
89 2-Chlorotoluene	91	12.358	12.358	0.0	94	1548808	50.5	
92 tert-Butylbenzene	119	12.687	12.687	0.0	88	1471599	49.9	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	69	1583755	50.6	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	2209238	50.7	
96 1,3-Dichlorobenzene	146	13.008	13.008	0.0	87	927552	51.1	
97 4-Isopropyltoluene	119	13.065	13.065	0.0	95	1923902	50.8	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	88	576322	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	917790	51.2	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	74	780281	51.2	
101 n-Butylbenzene	91	13.481	13.481	0.0	95	1753621	52.1	
105 1,2-Dibromo-3-Chloropropane	75	14.256	14.256	0.0	56	35261	46.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
108 1,2,4-Trichlorobenzene	180	15.105	15.105	0.0	93	523144	50.6	
109 Hexachlorobutadiene	225	15.296	15.296	0.0	92	446462	51.2	
110 Naphthalene	128	15.348	15.348	0.0	99	545711	48.0	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	401769	48.6	
S 113 1,2-Dichloroethene, Total	96				0		102.9	
S 114 Xylenes, Total	100				0		157.4	
S 115 1,3-Dichloropropene, Total	1				0		102.2	
S 116 Trihalomethanes, Total	1				0		208.7	
S 117 Trimethylbenzene, Total	1				0		101.7	

Report Date: 13-Dec-2012 12:13:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22C1213.D		
Injection Date:	13-Dec-2012 11:40:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	2
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: CCV 500-172880/3 Calibration Date: 12/13/2012 12:06

Instrument ID: CMS22 Calib Start Date: 12/11/2012 14:23

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 18:09

Lab File ID: 22D1213.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	0.3990	0.3864	0.0100	48.4	50.0	-3.1	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2793	0.2652	0.0100	47.5	50.0	-5.0	50.0
Toluene-d8 (Surr)	Ave	1.184	1.187	0.0100	50.1	50.0	0.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5005	0.5077	0.0100	50.7	50.0	1.4	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22D1213.D		
Lims ID:	CCV IX	Client ID:	
Inject. Date:	13-Dec-2012 12:06:30	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	CCV IX		
Misc. Info.:	500-0014364-003		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	172880	Lims Sample ID:	3
Sublist:	chrom-8260W22*sub8		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 12:28:40	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: alikpalae Date: 13-Dec-2012 12:28:40

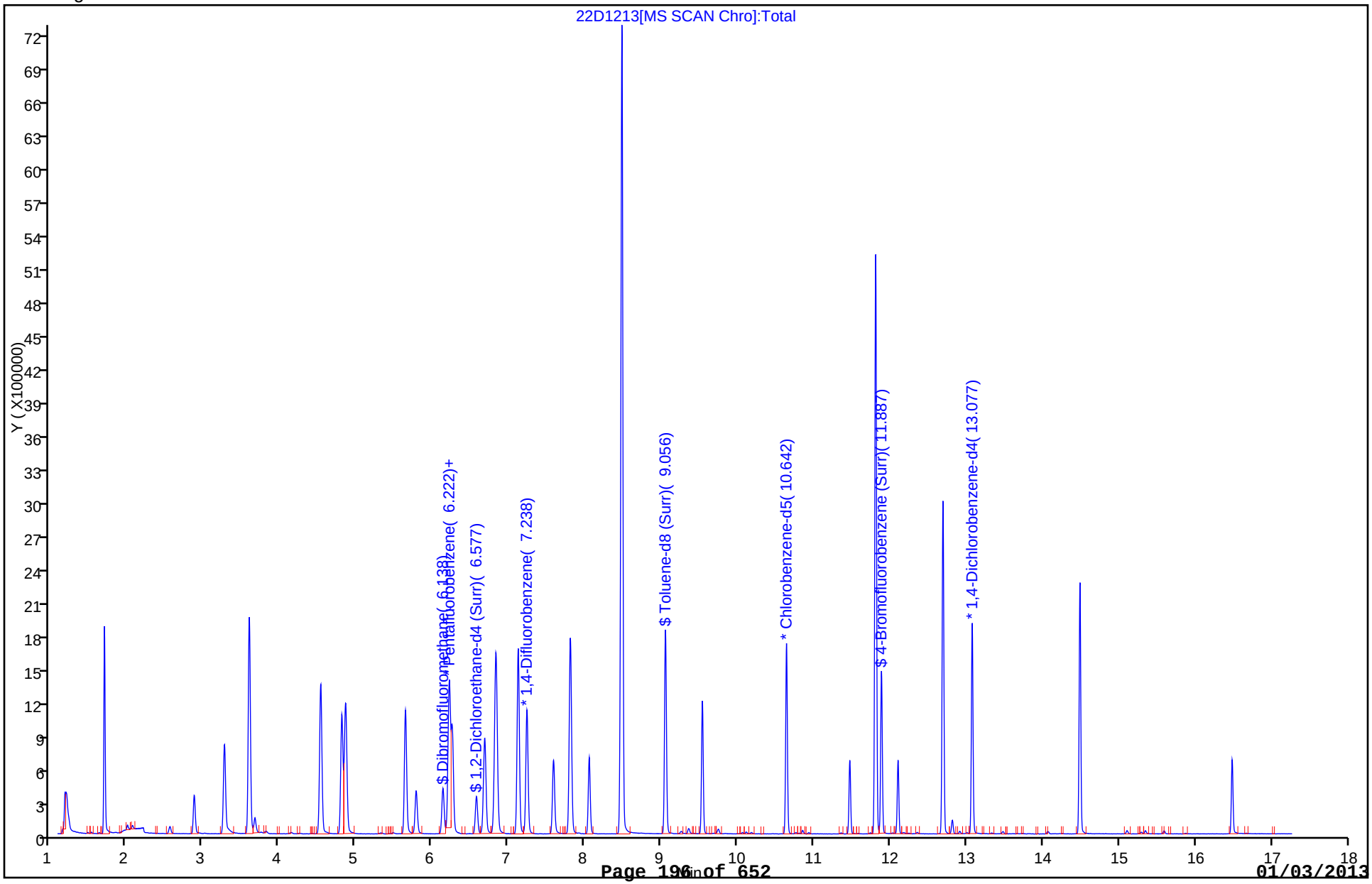
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
4 Butadiene	39	1.700	1.701	0.0	93	614681	53.1	
9 Ethyl ether	59	2.876	2.882	-0.006	95	208753	56.3	
14 Iodomethane	142	3.275	3.275	0.0	99	1053231	111.4	
17 3-Chloro-1-propene	76	3.598	3.599	-0.001	93	405344	115.6	
18 Methyl acetate	43	3.676	3.677	-0.001	97	171609	56.7	
23 Hexane	57	4.537	4.535	0.002	96	731305	58.6	
26 2-Chloro-1,3-butadiene	53	4.812	4.812	0.0	93	775358	57.8	
27 Isopropyl ether	45	4.864	4.864	0.0	94	1231052	56.0	
32 Ethyl acetate	43	5.647	5.650	-0.003	99	1522116	546.4	
33 Methacrylonitrile	41	5.785	5.788	-0.003	94	227890	112.2	
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	58	275105	48.4	
40 Cyclohexane	56	6.222	6.225	-0.003	95	845090	55.5	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	75	711972	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	263664	47.5	
44 Isobutyl alcohol	43	6.684	6.690	-0.006	96	659160	4561.7	
47 Isooctane	57	6.831	6.831	0.0	98	1976946	59.5	
48 n-Heptane	43	7.126	7.123	0.003	96	852980	58.4	
* 49 1,4-Difluorobenzene	114	7.238	7.236	0.002	95	994059	50.0	
51 n-Butanol	56	7.591	7.591	0.0	94	406021	4567.0	
52 Methylcyclohexane	83	7.808	7.808	0.0	94	704347	59.4	
55 Methyl methacrylate	41	8.056	8.056	0.0	90	371994	113.1	
57 2-Nitropropane	43	8.484	8.484	0.0	95	5273401	5116.9	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	95	1179806	50.1	
64 Ethyl methacrylate	69	9.538	9.538	0.0	83	496874	117.8	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	834331	50.0	
81 Cyclohexanone	55	11.812	11.809	0.003	95	2095135	8824.9	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	423580	50.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
87 trans-1,4-Dichloro-2-butene	89	12.106	12.103	0.003	84	73453	111.4	
93 Pentachloroethane	167	12.693	12.693	0.0	90	559828	121.6	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	464399	50.0	
107 1,3,5-Trichlorobenzene	180	14.490	14.490	0.0	96	685976	60.2	
112 2-Methylnaphthalene	142	16.483	16.483	0.0	90	319165	50.3	

Report Date: 13-Dec-2012 12:28:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22D1213.D		
Injection Date:	13-Dec-2012 12:06:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: CCV 500-172880/3 Calibration Date: 12/13/2012 12:06

Instrument ID: CMS22 Calib Start Date: 12/11/2012 19:06

GC Column: DB624 ID: 0.20(mm) Calib End Date: 12/11/2012 23:48

Lab File ID: 22D1213.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
Butadiene	Lin1		0.8634	0.0100	53.1	50.0	6.2	50.0
Ethyl ether	Ave	0.2603	0.2932	0.0100	56.3	50.0	12.6	50.0
Iodomethane	Lin1		0.7397	0.0100	111	100	11.4	50.0
3-Chloropropene	Ave	0.2462	0.2847	0.0100	116	100	15.6	50.0
Methyl acetate	Ave	0.2127	0.2410	0.0100	56.7	50.0	13.3	50.0
Hexane	Ave	0.8764	1.027	0.0100	58.6	50.0	17.2	50.0
2-Chloro-1,3-butadiene	Ave	0.9423	1.089	0.0100	57.8	50.0	15.6	50.0
Isopropyl ether	Ave	1.545	1.729	0.0100	56.0	50.0	11.9	50.0
Ethyl acetate	Ave	0.1956	0.2138	0.0100	546	500	9.3	50.0
Methacrylonitrile	Ave	0.1427	0.1600	0.0100	112	100	12.2	50.0
Cyclohexane	Lin1		1.187	0.0100	55.5	50.0	11.1	50.0
Isobutyl alcohol	Ave	0.0073	0.0083	0.0010	4560	4000	14.0	50.0
2,2,4-Trimethylpentane	Ave	1.673	1.989	0.0100	59.5	50.0	18.9	50.0
Heptane	Ave	0.7351	0.8581	0.0100	58.4	50.0	16.7	50.0
n-Butyl alcohol	Ave	0.0045	0.0051	0.0010	4570	4000	14.2	50.0
Methylcyclohexane	Ave	0.5969	0.7086	0.0100	59.4	50.0	18.7	50.0
Methyl methacrylate	Ave	0.1655	0.1871	0.0100	113	100	13.1	50.0
2-Nitropropane	Ave	0.0618	0.0790	0.0100	5120	4000	27.9	50.0
Ethyl methacrylate	Ave	0.2528	0.2978	0.0100	118	100	17.8	50.0
Cyclohexanone	Ave	0.0256	0.0564	0.0100	8820	4000	120.6*	50.0
trans-1,4-Dichloro-2-butene	Ave	0.0710	0.0791	0.0100	111	100	11.4	50.0
Pentachloroethane	Ave	0.2758	0.3355	0.0100	122	100	21.6	50.0
1,3,5-Trichlorobenzene	Ave	1.226	1.477	0.0100	60.2	50.0	20.4	50.0
2-Methylnaphthalene	Ave	0.6831	0.6873	0.0100	50.3	50.0	0.6	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\chi-svr07\chromdata\CMS22\20121213-14364.b\22D1213.D
Lims ID: CCV IX
Client ID:
Inject. Date: 13-Dec-2012 12:06:30
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV IX
Misc. Info.: 500-0014364-003
Operator: EA
Instrument ID: CMS22
Purge Vol: 5.000 mL
ALS Bottle#: 3
Lims Batch ID: 172880
Lims Sample ID: 3
Sublist: chrom-8260W22*sub8
Raw Data: Smoothed
Detector: MS SCAN

Method: \\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m
Method Label: TESTAMERICA CHICAGO GC/MS VOA REPORT
Last Update: 13-Dec-2012 12:28:40
Calib Date: 11-Dec-2012 23:48:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D
Limit Group: MSVOA_8260_ICAL_WATER
Integrator: RTE
ID Type: RT Order ID
Column Type:
Column Dia:
Process Host: XAWRK011

First Level Reviewer: alikpalae
Date: 13-Dec-2012 12:28:40

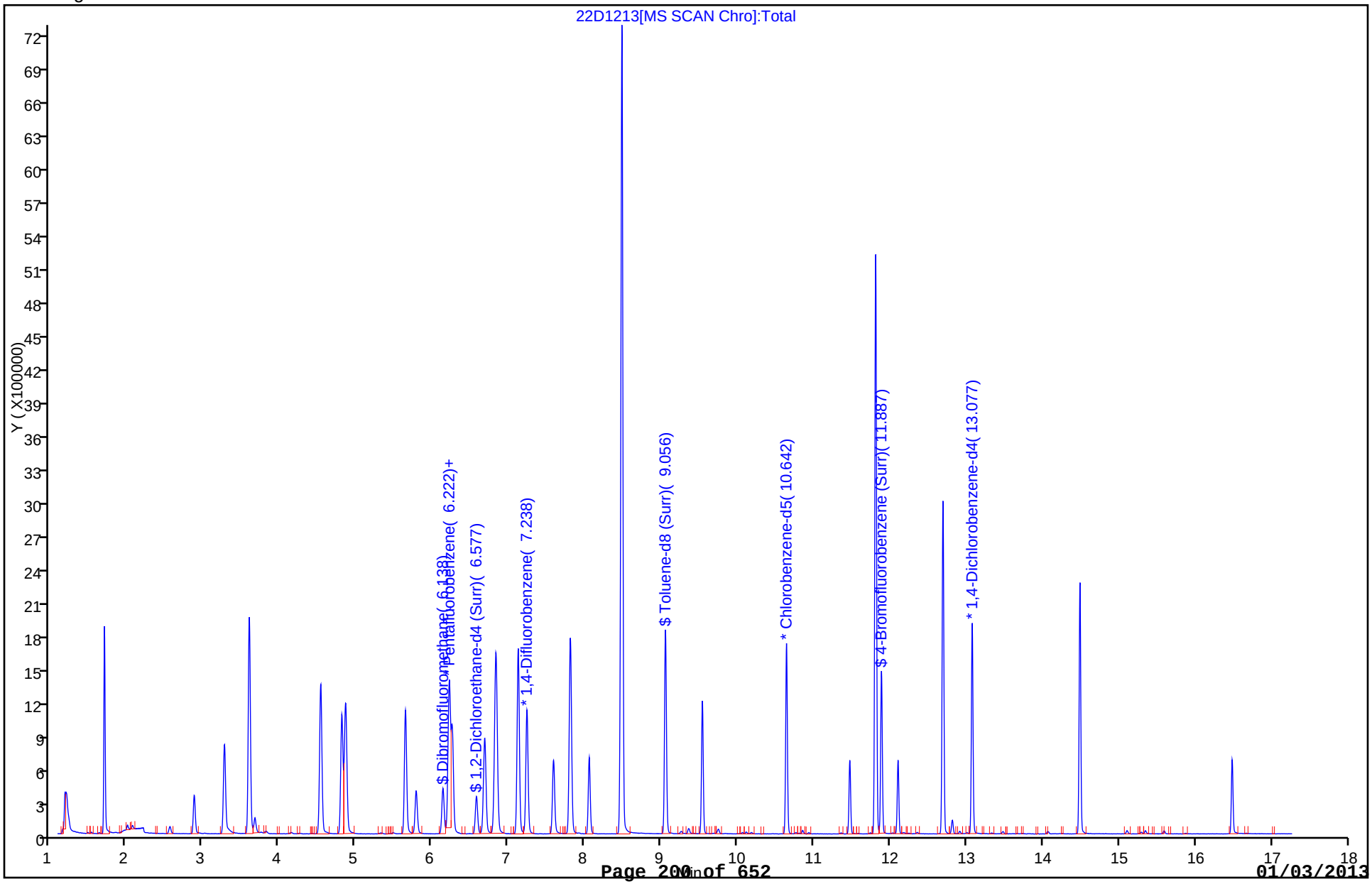
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
4 Butadiene	39	1.700	1.701	0.0	93	614681	53.1	
9 Ethyl ether	59	2.876	2.882	-0.006	95	208753	56.3	
14 Iodomethane	142	3.275	3.275	0.0	99	1053231	111.4	
17 3-Chloro-1-propene	76	3.598	3.599	-0.001	93	405344	115.6	
18 Methyl acetate	43	3.676	3.677	-0.001	97	171609	56.7	
23 Hexane	57	4.537	4.535	0.002	96	731305	58.6	
26 2-Chloro-1,3-butadiene	53	4.812	4.812	0.0	93	775358	57.8	
27 Isopropyl ether	45	4.864	4.864	0.0	94	1231052	56.0	
32 Ethyl acetate	43	5.647	5.650	-0.003	99	1522116	546.4	
33 Methacrylonitrile	41	5.785	5.788	-0.003	94	227890	112.2	
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	58	275105	48.4	
40 Cyclohexane	56	6.222	6.225	-0.003	95	845090	55.5	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	75	711972	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.577	6.577	0.0	0	263664	47.5	
44 Isobutyl alcohol	43	6.684	6.690	-0.006	96	659160	4561.7	
47 Isooctane	57	6.831	6.831	0.0	98	1976946	59.5	
48 n-Heptane	43	7.126	7.123	0.003	96	852980	58.4	
* 49 1,4-Difluorobenzene	114	7.238	7.236	0.002	95	994059	50.0	
51 n-Butanol	56	7.591	7.591	0.0	94	406021	4567.0	
52 Methylcyclohexane	83	7.808	7.808	0.0	94	704347	59.4	
55 Methyl methacrylate	41	8.056	8.056	0.0	90	371994	113.1	
57 2-Nitropropane	43	8.484	8.484	0.0	95	5273401	5116.9	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	95	1179806	50.1	
64 Ethyl methacrylate	69	9.538	9.538	0.0	83	496874	117.8	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	834331	50.0	
81 Cyclohexanone	55	11.812	11.809	0.003	95	2095135	8824.9	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	423580	50.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
87 trans-1,4-Dichloro-2-butene	89	12.106	12.103	0.003	84	73453	111.4	
93 Pentachloroethane	167	12.693	12.693	0.0	90	559828	121.6	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	96	464399	50.0	
107 1,3,5-Trichlorobenzene	180	14.490	14.490	0.0	96	685976	60.2	
112 2-Methylnaphthalene	142	16.483	16.483	0.0	90	319165	50.3	

Report Date: 13-Dec-2012 12:28:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22D1213.D		
Injection Date:	13-Dec-2012 12:06:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	3
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22B1211.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	11-Dec-2012 13:45:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	500-0014322-001		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	172615	Lims Sample ID:	1
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	12-Dec-2012 11:47:33	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: alikpalae Date: 12-Dec-2012 11:47:33

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 82 BFB	95	11.884	11.884	0.0	90	82744	0	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

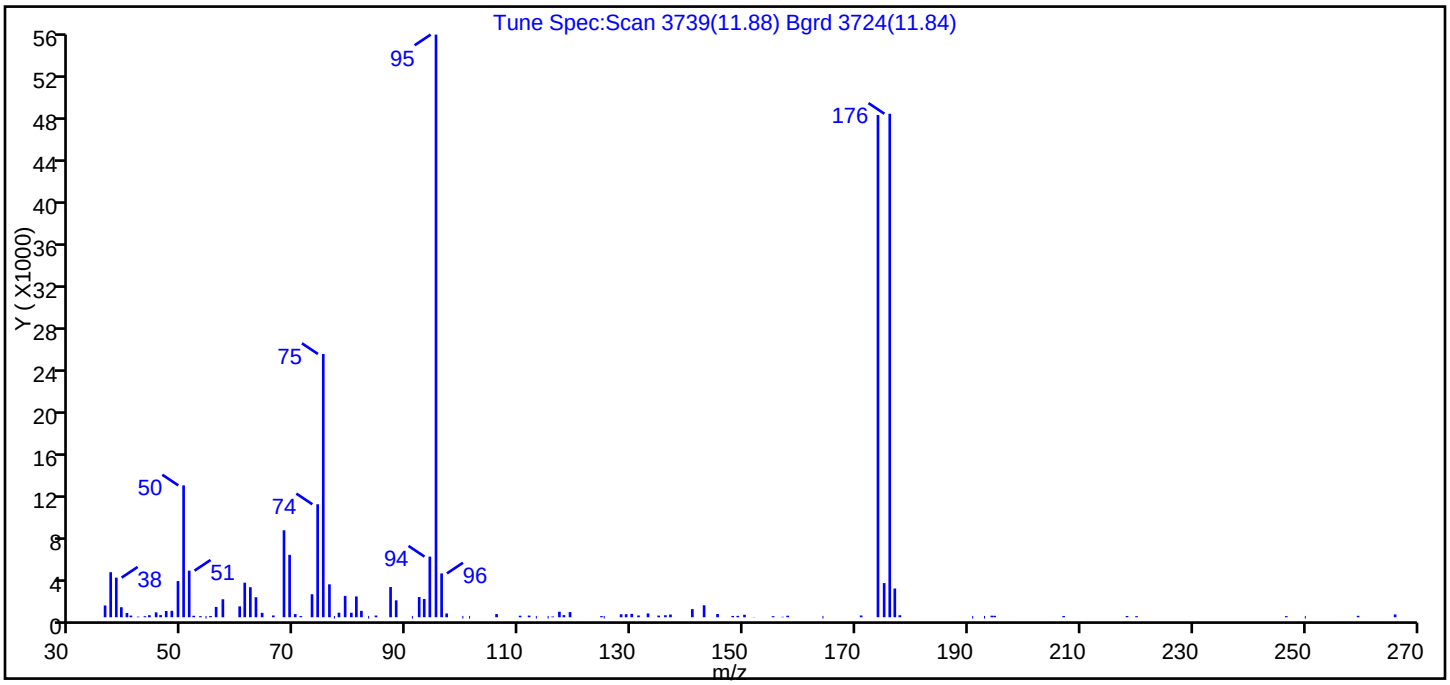
Report Date: 12-Dec-2012 11:47:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22B1211.D		
Injection Date:	11-Dec-2012 13:45:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172615	Lims Sample ID:	1
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Tune Method:	BFB Method 8260		

$ 82 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.63
75	30.00 - 60.00% of mass 95	45.18
96	5.00 - 9.00% of mass 95	7.52
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	86.21
175	5.00 - 9.00% of mass 174	5.86 (6.80)
176	95.00 - 101.00% of mass 174	86.41 (100.23)
177	5.00 - 9.00% of mass 176	4.94 (5.71)

Data File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22B1211.D\8260W22.rslt\spectra.d
Injection Date: 11-Dec-2012 13:45:30
Spectrum: Tune Spec:Scan 3739(11.88) Bgrd 3724(11.84)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1121	64.10	419	97.00	358	148.90	131
37.10	4284	66.10	170	99.80	0	150.10	239
38.10	3767	68.00	8271	101.00	0	151.80	18
39.00	952	69.00	5931	105.90	303	155.20	104
40.00	405	70.00	303	110.10	146	156.90	40
40.70	161	71.00	111	111.70	161	157.80	145
42.00	58	73.00	2188	112.90	0	164.00	0
43.20	97	74.00	10744	115.00	0	170.90	169
44.00	195	75.00	25032	115.90	69	173.90	47760
45.20	467	76.10	3132	117.10	526	175.00	3249
46.00	206	76.90	0	117.90	204	176.00	47872
47.00	593	77.80	432	119.00	491	176.90	2734
48.00	612	78.90	2032	124.60	108	177.80	194
49.10	3440	80.00	427	125.00	0	190.70	0
50.10	12539	80.90	1982	128.10	282	192.80	0
51.10	4430	81.80	610	129.00	292	194.20	148
51.90	142	83.00	0	130.00	320	194.70	139
53.10	105	84.40	165	131.20	170	207.00	114
54.00	0	87.00	2871	132.90	362	218.30	117
54.90	117	88.00	1612	134.80	160	220.00	103
55.90	984	90.80	0	136.00	193	246.70	108
57.10	1710	92.10	1925	136.90	259	250.00	0
60.10	1032	93.00	1742	140.80	771	259.50	138
61.00	3285	94.00	5767	142.90	1140	266.10	265
62.00	2857	95.10	55400	145.30	309		
63.00	1903	96.10	4168	148.00	126		

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22B1213.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	13-Dec-2012 11:02:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	500-0014364-001		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	172880	Lims Sample ID:	1
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 12:12:20	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK011		
First Level Reviewer: alikpalae		Date:	13-Dec-2012 12:12:20

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 82 BFB	95	11.884	11.884	0.0	91	90948	0	7

QC Flag Legend

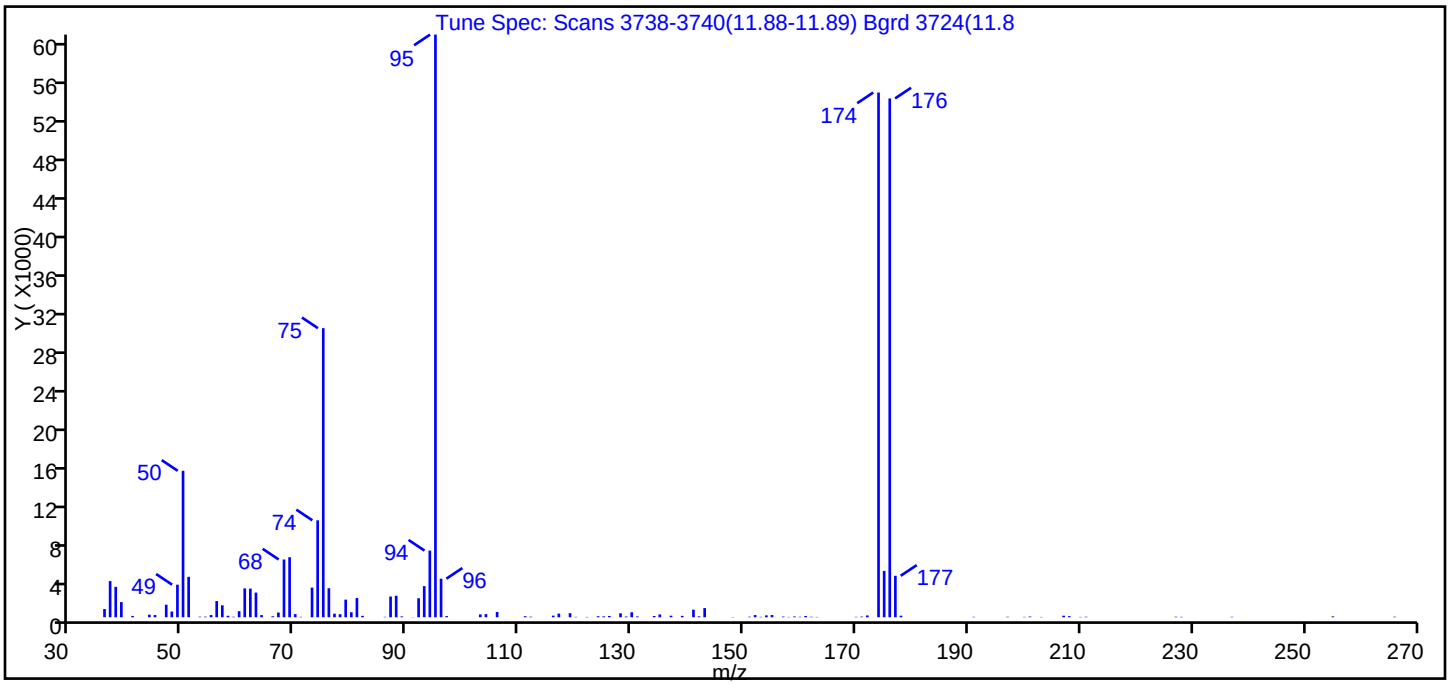
Processing Flags
7 - Failed Limit of Detection

MS Tune Report

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22B1213.D		
Injection Date:	13-Dec-2012 11:02:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	1
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Tune Method:	BFB Method 8260		

$ 82 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.13
75	30.00 - 60.00% of mass 95	49.61
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	90.06
175	5.00 - 9.00% of mass 174	7.96 (8.84)
176	95.00 - 101.00% of mass 174	89.04 (98.88)
177	5.00 - 9.00% of mass 176	7.11 (7.99)

Data File: \\chi-svr07\chromdata\CMS22\20121213-14364.b\22B1213.D\8260W22.rslt\spectra.d
Injection Date: 13-Dec-2012 11:02:30
Spectrum: Tune Spec: Scans 3738-3740(11.88-11.89) Bgrd 3724(11.8
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	845	69.00	6186	112.00	58	158.00	35
37.00	3727	70.00	323	116.00	164	159.00	80
38.00	3131	71.00	44	117.00	377	160.00	50
39.00	1560	73.00	3054	118.00	4	161.00	134
41.00	136	74.00	9987	119.00	417	162.00	50
43.00	4	75.00	29776	120.00	41	163.00	35
44.00	263	76.00	2988	122.00	35	170.00	41
45.00	224	77.00	365	124.00	109	171.00	66
47.00	1291	78.00	312	125.00	93	172.00	188
48.00	587	79.00	1815	126.00	132	174.00	54048
49.00	3355	80.00	513	128.00	408	175.00	4776
50.00	15085	81.00	1984	129.00	77	176.00	53440
51.00	4164	82.00	145	130.00	515	177.00	4270
53.00	59	86.00	44	131.00	84	178.00	159
54.00	63	87.00	2136	134.00	132	191.00	46
55.00	225	88.00	2216	135.00	291	197.00	50
56.00	1666	89.00	88	137.00	160	200.00	38
57.00	1231	91.00	18	139.00	146	201.00	73
58.00	150	92.00	1957	141.00	780	203.00	34
59.00	52	93.00	3206	142.00	95	207.00	159
60.00	624	94.00	6867	143.00	945	208.00	115
61.00	2973	95.00	60016	148.00	28	210.00	33
62.00	2950	96.00	3972	151.00	58	211.00	53
63.00	2542	97.00	121	152.00	224	227.00	55
64.00	222	103.00	290	153.00	44	228.00	42
66.00	98	104.00	324	154.00	194	237.00	49
67.00	484	106.00	546	155.00	228	255.00	91
68.00	5950	111.00	111	157.00	71	266.00	56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 500-172880/6
Matrix: Water
Lab File ID: 22M1213.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 12/13/2012 13:24
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 172880
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.074	U	0.50	0.074
156-60-5	trans-1,2-Dichloroethene	0.25	U	1.0	0.25
156-59-2	cis-1,2-Dichloroethene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.13	U	0.50	0.13
79-01-6	Trichloroethene	0.19	U	0.50	0.19
127-18-4	Tetrachloroethene	0.17	U	1.0	0.17
108-88-3	Toluene	0.11	U	0.50	0.11
75-01-4	Vinyl chloride	0.10	U	0.50	0.10
1330-20-7	Xylenes, Total	0.068	U	1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		75-125
2037-26-5	Toluene-d8 (Surr)	93		75-120
460-00-4	4-Bromofluorobenzene (Surr)	88		75-120
1868-53-7	Dibromofluoromethane	90		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22M1213.D		
Lims ID:	MB	Client ID:	
Inject. Date:	13-Dec-2012 13:24:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB		
Misc. Info.:	500-0014364-006		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	172880	Lims Sample ID:	6
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	13-Dec-2012 13:47:18	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK011		

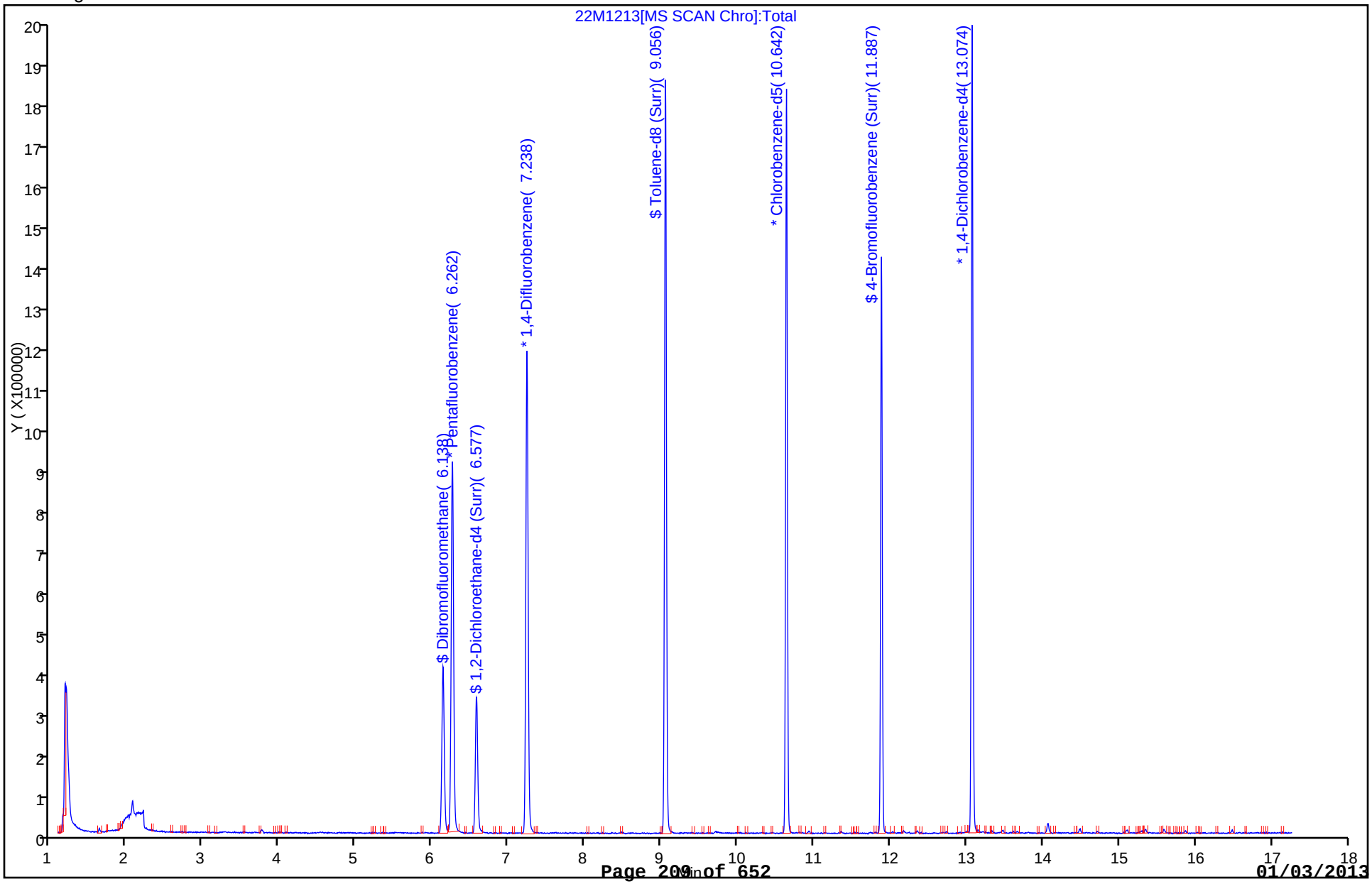
First Level Reviewer: alikpalae Date: 13-Dec-2012 13:47:51

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	58	271204	45.1	
* 39 Pentafluorobenzene	168	6.265	6.259	0.006	91	753178	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	256448	43.8	
* 49 1,4-Difluorobenzene	114	7.238	7.236	0.002	95	1047011	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	85	1153701	46.5	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	87	904207	50.0	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	398508	44.0	
* 98 1,4-Dichlorobenzene-d4	152	13.074	13.077	-0.003	95	489274	50.0	
102 m-Ethylvinylbenzene	117	14.302	14.300	0.002	0	42	0	
103 p-Ethylvinylbenzene	117	14.443	14.400	0.043	0	76	0	

Report Date: 13-Dec-2012 13:47:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22M1213.D		
Injection Date:	13-Dec-2012 13:24:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	6
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 500-172880/4
Matrix: Water
Lab File ID: 22S1213.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 12/13/2012 12:32
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB624 ID: 0.2(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 172880
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	50.2		0.50	0.074
156-60-5	trans-1,2-Dichloroethene	52.1		1.0	0.25
156-59-2	cis-1,2-Dichloroethene	51.0		1.0	0.12
100-41-4	Ethylbenzene	53.3		0.50	0.13
79-01-6	Trichloroethene	51.0		0.50	0.19
127-18-4	Tetrachloroethene	53.1		1.0	0.17
108-88-3	Toluene	50.1		0.50	0.11
75-01-4	Vinyl chloride	47.8		0.50	0.10
1330-20-7	Xylenes, Total	153		1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-125
2037-26-5	Toluene-d8 (Surr)	99		75-120
460-00-4	4-Bromofluorobenzene (Surr)	100		75-120
1868-53-7	Dibromofluoromethane	97		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\chi-svr07\chromdata\CMS22\20121213-14364.b\22S1213.D
Lims ID: LCS Client ID:
Inject. Date: 13-Dec-2012 12:32:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS
Misc. Info.: 500-0014364-004
Operator: EA Instrument ID: CMS22
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 172880 Lims Sample ID: 4
Raw Data: Smoothed
Detector: MS SCAN

Method: \\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m
Method Label: TESTAMERICA CHICAGO GC/MS VOA REPORT
Last Update: 13-Dec-2012 13:07:55 Calib Date: 11-Dec-2012 23:48:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D
Limit Group: MSVOA_8260_ICAL_WATER
Integrator: RTE ID Type: RT Order ID
Column Type: Column Dia:
Process Host: XAWRK009

First Level Reviewer: alikpalae Date: 13-Dec-2012 13:07:55

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
1 Dichlorodifluoromethane	85	1.351	1.351	0.0	87	341540	38.2	
2 Chloromethane	50	1.533	1.533	0.0	89	451572	38.5	
3 Vinyl chloride	62	1.657	1.657	0.0	84	502110	47.8	
5 Bromomethane	94	2.007	2.004	0.003	91	174553	53.0	
6 Chloroethane	64	2.122	2.122	0.0	90	254217	46.2	
7 Dichlorofluoromethane	67	2.405	2.405	0.0	83	701087	42.6	
8 Trichlorofluoromethane	101	2.440	2.440	0.0	81	641500	47.1	
9 Ethyl ether	59	2.879	2.882	-0.003	97	205627	47.9	
10 Acrolein	56	3.009	3.003	0.006	96	1361859	2081.8	
11 1,1-Dichloroethene	96	3.110	3.110	0.0	87	331935	50.3	
12 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.156	3.151	0.005	85	369990	46.2	
13 Acetone	43	3.229	3.226	0.003	96	48783	46.3	
14 Iodomethane	142	3.275	3.275	0.0	99	605332	56.3	
15 Carbon disulfide	76	3.341	3.338	0.003	99	1175030	48.2	
16 Acetonitrile	41	3.575	3.570	0.005	95	172936	352.9	
18 Methyl acetate	43	3.676	3.677	-0.001	97	115960	33.1	
19 Methylene Chloride	84	3.760	3.757	0.003	92	306921	48.9	
20 Acrylonitrile	53	4.095	4.092	0.003	97	525446	396.0	
21 trans-1,2-Dichloroethene	96	4.127	4.127	0.0	92	386581	52.1	
22 Methyl tert-butyl ether	73	4.170	4.168	0.002	88	582720	48.0	
23 Hexane	57	4.537	4.535	0.002	95	709676	49.1	
24 1,1-Dichloroethane	63	4.685	4.682	0.003	85	716740	49.1	
25 Vinyl acetate	43	4.815	4.809	0.006	100	521371	50.6	
28 2,2-Dichloropropane	77	5.462	5.459	0.003	79	602940	49.8	
29 cis-1,2-Dichloroethene	96	5.471	5.468	0.002	85	382861	51.0	
30 2-Butanone (MEK)	43	5.520	5.520	0.0	78	71315	46.8	
31 Propionitrile	54	5.580	5.574	0.006	85	182174	393.8	
34 Chlorobromomethane	128	5.780	5.782	-0.002	90	139238	47.3	

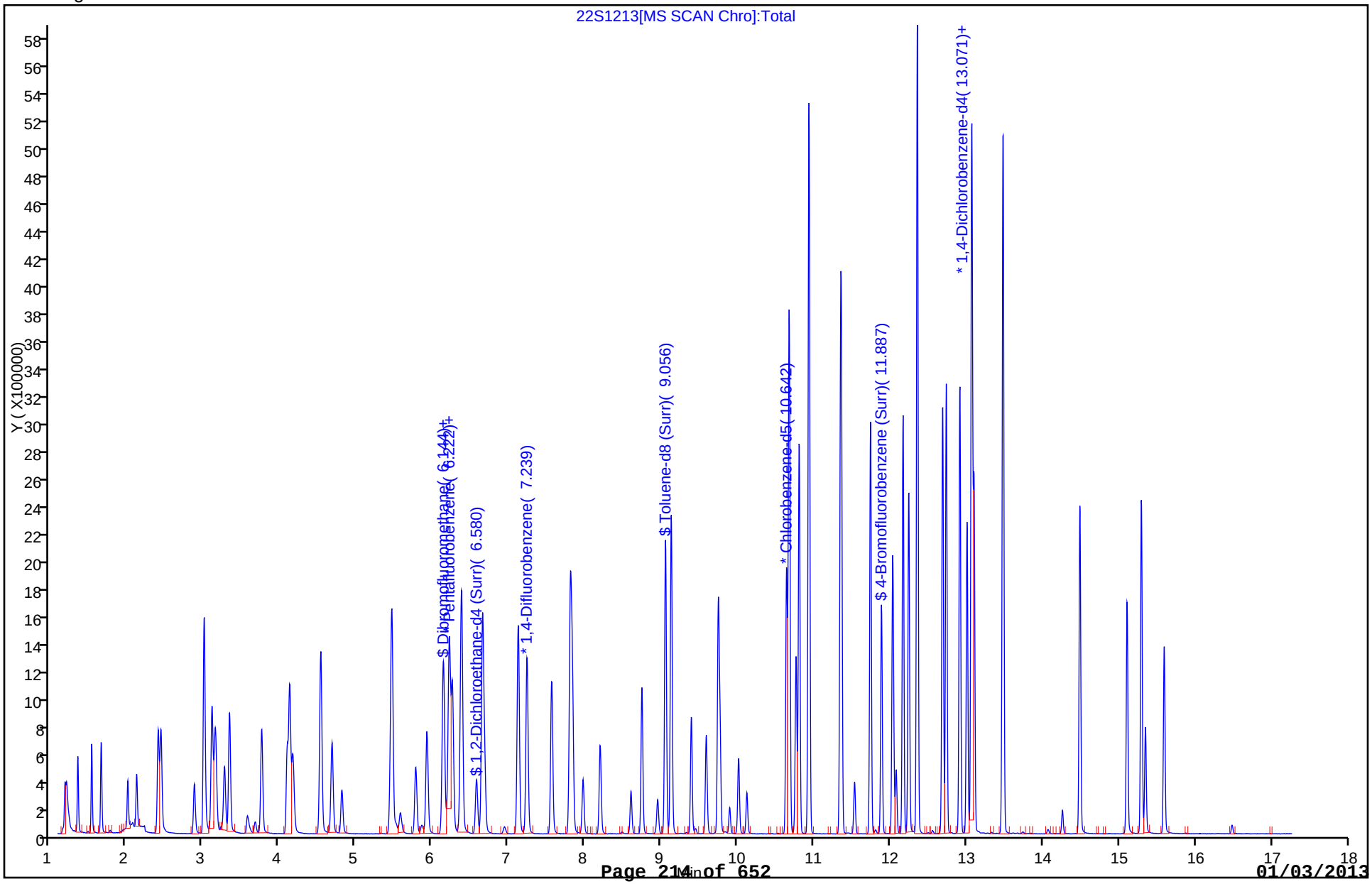
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
35 Tetrahydrofuran	42	5.861	5.860	0.0	90	44590	46.8	
36 Chloroform	83	5.927	5.927	0.0	83	604747	49.8	
$ 37 Dibromofluoromethane	113	6.138	6.138	0.0	45	319546	48.6	
38 1,1,1-Trichloroethane	97	6.147	6.144	0.002	78	629083	51.6	
40 Cyclohexane	56	6.222	6.225	-0.003	92	847242	48.0	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	85	823916	50.0	
41 Carbon tetrachloride	117	6.378	6.375	0.003	76	569512	51.8	
42 1,1-Dichloropropene	75	6.383	6.380	0.003	84	526871	49.3	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	306204	48.2	
45 Benzene	78	6.658	6.655	0.003	97	1403601	50.2	
46 1,2-Dichloroethane	62	6.684	6.678	0.006	83	399678	49.7	
48 n-Heptane	43	7.126	7.123	0.003	97	782675	46.8	
* 49 1,4-Difluorobenzene	114	7.239	7.236	0.003	95	1136899	50.0	
50 Trichloroethene	130	7.565	7.562	0.003	90	399864	51.0	
52 Methylcyclohexane	83	7.808	7.808	0.0	95	706794	52.1	
53 1,2-Dichloropropane	63	7.837	7.834	0.003	85	368431	51.4	
54 Dibromomethane	93	7.975	7.972	0.003	94	145740	50.4	
56 Dichlorobromomethane	83	8.198	8.198	0.0	91	403005	49.2	
58 2-Chloroethyl vinyl ether	63	8.602	8.602	0.0	90	123683	51.6	
59 cis-1,3-Dichloropropene	75	8.747	8.746	0.001	88	514987	55.4	
60 4-Methyl-2-pentanone (MIBK)	43	8.952	8.952	0.0	95	175883	50.4	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	90	1335710	49.6	
62 Toluene	92	9.131	9.131	0.0	88	932053	50.1	
63 trans-1,3-Dichloropropene	75	9.394	9.394	0.0	97	383690	49.7	
65 1,1,2-Trichloroethane	97	9.590	9.587	0.003	86	200092	51.1	
66 Tetrachloroethene	166	9.746	9.746	0.0	90	460328	53.1	
67 1,3-Dichloropropane	76	9.769	9.769	0.0	96	347879	52.2	
68 2-Hexanone	43	9.899	9.896	0.003	97	120322	52.3	
69 Chlorodibromomethane	129	10.015	10.012	0.003	90	266907	53.7	
70 Ethylene Dibromide	107	10.122	10.122	0.0	98	187831	50.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	86	955127	50.0	
72 Chlorobenzene	112	10.671	10.671	0.001	93	952741	49.3	
73 1-Chlorohexane	91	10.682	10.679	0.003	83	564023	49.9	
74 1,1,1,2-Tetrachloroethane	131	10.766	10.766	0.0	88	340204	52.4	
75 Ethylbenzene	106	10.809	10.806	0.003	98	585452	53.3	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2843175	104.3	
77 o-Xylene	91	11.349	11.349	0.0	91	1355405	48.7	
78 Styrene	104	11.364	11.361	0.003	93	1143758	53.5	
79 Bromoform	173	11.534	11.531	0.003	98	164879	56.2	
80 Isopropylbenzene	105	11.742	11.742	0.0	98	1794814	47.5	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	92	475786	49.8	
84 Bromobenzene	156	12.034	12.034	0.0	86	429588	51.0	
85 1,1,2,2-Tetrachloroethane	83	12.043	12.043	0.0	75	230269	52.5	
86 1,2,3-Trichloropropane	75	12.080	12.077	0.003	52	165021	51.1	
88 N-Propylbenzene	91	12.170	12.170	0.0	98	2163266	47.7	
90 4-Chlorotoluene	91	12.245	12.245	0.0	92	1254529	49.0	
91 1,3,5-Trimethylbenzene	105	12.358	12.355	0.003	87	1687631	53.5	
89 2-Chlorotoluene	91	12.358	12.358	0.0	91	1471811	48.4	
92 tert-Butylbenzene	119	12.690	12.687	0.003	90	1398301	47.9	
94 1,2,4-Trimethylbenzene	105	12.736	12.736	0.0	74	1607999	51.9	
95 sec-Butylbenzene	105	12.915	12.915	0.0	95	2097663	48.6	
96 1,3-Dichlorobenzene	146	13.008	13.008	0.0	97	869877	48.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
97 4-Isopropyltoluene	119	13.065	13.065	0.0	94	1805808	48.1	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	88	570738	50.0	
99 1,4-Dichlorobenzene	146	13.100	13.100	0.0	93	923275	52.0	
100 1,2-Dichlorobenzene	146	13.476	13.476	0.0	74	737402	48.8	
101 n-Butylbenzene	91	13.481	13.481	0.0	94	1740221	52.2	
105 1,2-Dibromo-3-Chloropropane	75	14.259	14.256	0.003	56	34447	45.7	
107 1,3,5-Trichlorobenzene	180	14.487	14.490	-0.003	96	745085	53.2	
108 1,2,4-Trichlorobenzene	180	15.108	15.105	0.003	92	507165	49.5	
109 Hexachlorobutadiene	225	15.293	15.296	-0.003	92	454738	52.6	
110 Naphthalene	128	15.348	15.348	0.0	99	563348	50.1	
111 1,2,3-Trichlorobenzene	180	15.593	15.593	0.0	94	420289	51.3	
S 113 1,2-Dichloroethene, Total	96				0		103.2	
S 114 Xylenes, Total	100				0		153.0	

Report Date: 13-Dec-2012 13:07:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\22S1213.D		
Injection Date:	13-Dec-2012 12:32:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:		Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	4
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-7 MS | Lab Sample ID: 500-53164-3 MS

Matrix: Water | Lab File ID: 53164-03S.D

Analysis Method: 8260B | Date Collected: 12/11/2012 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 21:12

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	48.7		0.50	0.074
156-60-5	trans-1,2-Dichloroethene	50.9		1.0	0.25
156-59-2	cis-1,2-Dichloroethene	51.6		1.0	0.12
100-41-4	Ethylbenzene	51.0		0.50	0.13
79-01-6	Trichloroethene	49.7		0.50	0.19
127-18-4	Tetrachloroethene	50.6		1.0	0.17
108-88-3	Toluene	48.9		0.50	0.11
75-01-4	Vinyl chloride	47.9		0.50	0.10
1330-20-7	Xylenes, Total	148		1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-125
2037-26-5	Toluene-d8 (Surr)	97		75-120
460-00-4	4-Bromofluorobenzene (Surr)	96		75-120
1868-53-7	Dibromofluoromethane	95		75-120

TestAmerica Chicago
Target Compound Quantitation Report

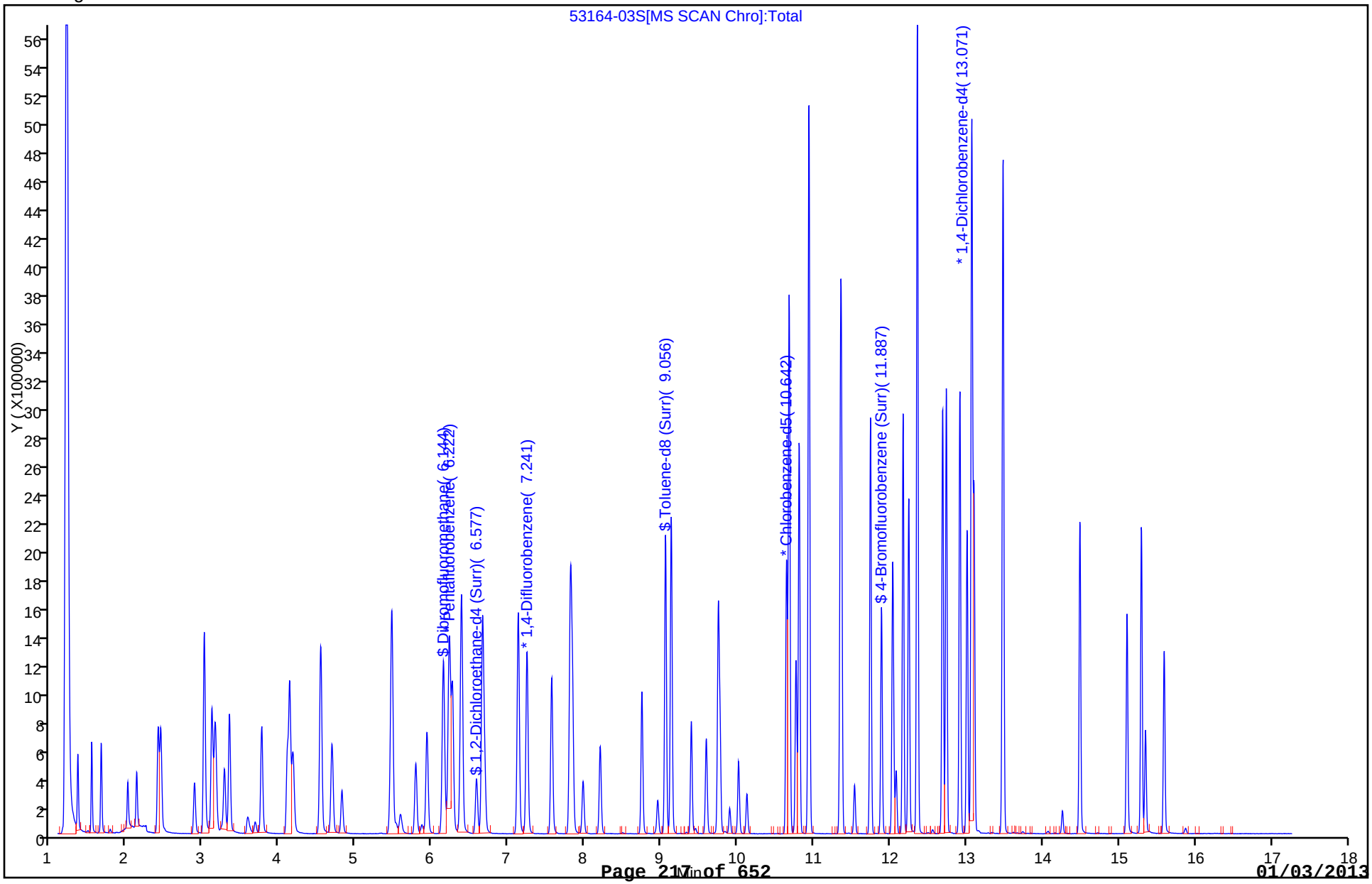
Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-03S.D		
Lims ID:	500-53164-F-3 MS	Client ID:	VLF-MW-7
Inject. Date:	13-Dec-2012 21:12:30	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	500-53164-F-3 MS		
Misc. Info.:	500-0014364-024		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	24
Lims Batch ID:	172880	Lims Sample ID:	24
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	14-Dec-2012 15:42:18	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK022		
First Level Reviewer: alikpalae		Date:	14-Dec-2012 15:42:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.657	1.657	0.0	83	492742	47.9	
21 trans-1,2-Dichloroethene	96	4.130	4.127	0.003	89	369383	50.9	
29 cis-1,2-Dichloroethene	96	5.471	5.468	0.003	84	378616	51.6	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.003	48	305826	47.6	
* 39 Pentafluorobenzene	168	6.262	6.259	0.003	73	805802	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	293057	46.4	
45 Benzene	78	6.658	6.655	0.003	97	1353124	48.7	
* 49 1,4-Difluorobenzene	114	7.239	7.236	0.003	96	1130645	50.0	
50 Trichloroethene	130	7.565	7.562	0.003	91	387866	49.7	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	78	1296633	48.4	
62 Toluene	92	9.131	9.131	0.0	94	903521	48.9	
66 Tetrachloroethene	166	9.749	9.746	0.003	91	437550	50.6	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	85	952268	50.0	
75 Ethylbenzene	106	10.809	10.806	0.003	98	559205	51.0	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2745447	101.0	
77 o-Xylene	91	11.349	11.349	0.0	92	1313004	47.3	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	90	457711	48.0	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	89	562634	50.0	
S 114 Xylenes, Total	100				0		148.3	

Report Date: 14-Dec-2012 15:42:18 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-03S.D		
Injection Date:	13-Dec-2012 21:12:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-7	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	24
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-7 MSD | Lab Sample ID: 500-53164-3 MSD

Matrix: Water | Lab File ID: 53164-03T.D

Analysis Method: 8260B | Date Collected: 12/11/2012 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2012 21:38

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 172880 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	49.7		0.50	0.074
156-60-5	trans-1,2-Dichloroethene	52.6		1.0	0.25
156-59-2	cis-1,2-Dichloroethene	52.1		1.0	0.12
100-41-4	Ethylbenzene	51.2		0.50	0.13
79-01-6	Trichloroethene	50.0		0.50	0.19
127-18-4	Tetrachloroethene	51.0		1.0	0.17
108-88-3	Toluene	49.4		0.50	0.11
75-01-4	Vinyl chloride	50.0		0.50	0.10
1330-20-7	Xylenes, Total	148		1.0	0.068

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-125
2037-26-5	Toluene-d8 (Surr)	95		75-120
460-00-4	4-Bromofluorobenzene (Surr)	95		75-120
1868-53-7	Dibromofluoromethane	93		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-03T.D		
Lims ID:	500-53164-F-3 MSD	Client ID:	VLF-MW-7
Inject. Date:	13-Dec-2012 21:38:30	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	500-53164-F-3 MSD		
Misc. Info.:	500-0014364-025		
Operator:	EA	Instrument ID:	CMS22
Purge Vol:	5.000 mL	ALS Bottle#:	25
Lims Batch ID:	172880	Lims Sample ID:	25
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\8260W22.m		
Method Label:	TESTAMERICA CHICAGO GC/MS VOA REPORT		
Last Update:	14-Dec-2012 15:42:34	Calib Date:	11-Dec-2012 23:48:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chi-svr07\chromdata\CMS22\20121211-14322.b\22J1211D.D		
Limit Group:	MSVOA_8260_ICAL_WATER		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK022		

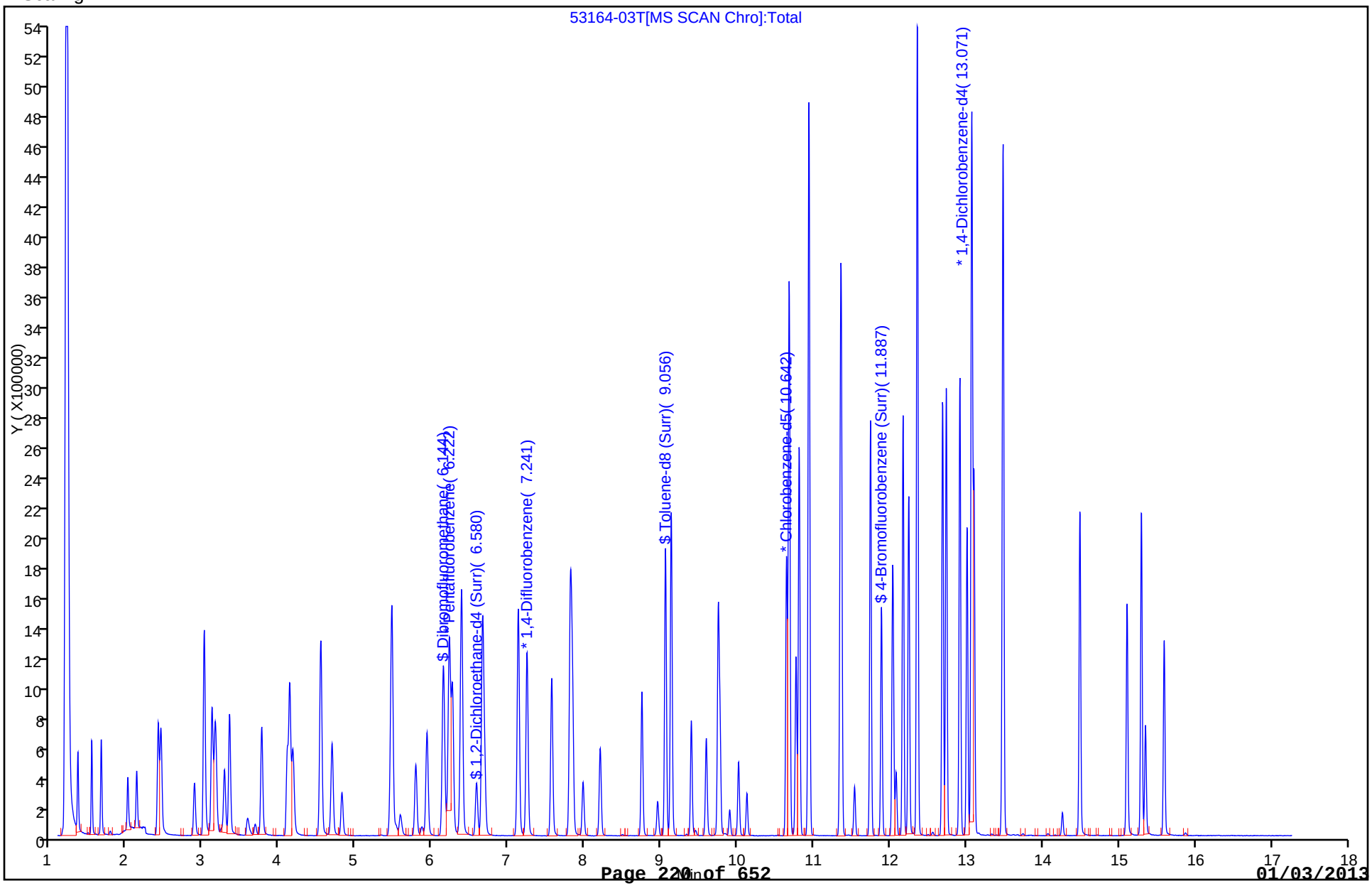
First Level Reviewer: alikpalae Date: 14-Dec-2012 15:42:34

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
3 Vinyl chloride	62	1.660	1.657	0.003	84	481954	50.0	
21 trans-1,2-Dichloroethene	96	4.130	4.127	0.003	91	357466	52.6	
29 cis-1,2-Dichloroethene	96	5.470	5.468	0.002	85	358199	52.1	
$ 37 Dibromofluoromethane	113	6.141	6.141	0.003	39	280133	46.5	
* 39 Pentafluorobenzene	168	6.265	6.259	0.006	81	754766	50.0	
$ 43 1,2-Dichloroethane-d4 (Surr)	65	6.580	6.577	0.003	0	270428	45.5	
45 Benzene	78	6.658	6.655	0.003	97	1300461	49.7	
* 49 1,4-Difluorobenzene	114	7.241	7.236	0.005	95	1065070	50.0	
50 Trichloroethene	130	7.562	7.562	0.0	90	367455	50.0	
$ 61 Toluene-d8 (Surr)	98	9.056	9.053	0.003	83	1197735	47.5	
62 Toluene	92	9.131	9.131	0.0	88	861267	49.4	
66 Tetrachloroethene	166	9.746	9.746	0.0	90	418405	51.0	
* 71 Chlorobenzene-d5	117	10.642	10.642	0.0	84	904821	50.0	
75 Ethylbenzene	106	10.809	10.806	0.003	98	533188	51.2	
76 m-Xylene & p-Xylene	91	10.936	10.936	0.0	0	2598568	100.6	
77 o-Xylene	91	11.349	11.349	0.0	91	1246571	47.3	
$ 83 4-Bromofluorobenzene (Surr)	95	11.887	11.887	0.0	91	430057	47.5	
* 98 1,4-Dichlorobenzene-d4	152	13.077	13.077	0.0	90	538624	50.0	
S 114 Xylenes, Total	100				0		147.9	

Report Date: 14-Dec-2012 15:42:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Chicago

Data File:	\\chi-svr07\chromdata\CMS22\20121213-14364.b\53164-03T.D		
Injection Date:	13-Dec-2012 21:38:30	Limit Group:	MSVOA_8260_ICAL_WATER
Client ID:	VLF-MW-7	Instrument ID:	CMS22
Lims Batch ID:	172880	Lims Sample ID:	25
Operator ID:	EA	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Y Scaling:			



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: CMS22 Start Date: 12/11/2012 13:45

Analysis Batch Number: 172615 End Date: 12/12/2012 00:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-172615/1		12/11/2012 13:45	1	22B1211.D	DB624 0.2(mm)
STD01 500-172615/2 IC		12/11/2012 14:23	1	22I1211A.D	DB624 0.2(mm)
STD02 500-172615/3 IC		12/11/2012 14:51	1	22I1211B.D	DB624 0.2(mm)
STD03 500-172615/4 IC		12/11/2012 15:20	1	22I1211C.D	DB624 0.2(mm)
STD04 500-172615/5 IC		12/11/2012 15:48	1	22I1211D.D	DB624 0.2(mm)
STD05 500-172615/6 IC		12/11/2012 16:16	1	22I1211E.D	DB624 0.2(mm)
STD06 500-172615/7 ICIS		12/11/2012 16:44	1	22I1211F.D	DB624 0.2(mm)
STD07 500-172615/8 IC		12/11/2012 17:13	1	22I1211G.D	DB624 0.2(mm)
STD08 500-172615/9 IC		12/11/2012 17:41	1	22I1211H.D	DB624 0.2(mm)
STD09 500-172615/10 IC		12/11/2012 18:09	1	22I1211I.D	DB624 0.2(mm)
STD02AP 500-172615/12 IC		12/11/2012 19:06	1		DB624 0.2(mm)
STD05AP 500-172615/15 IC		12/11/2012 20:30	1		DB624 0.2(mm)
STD06AP 500-172615/16 IC		12/11/2012 20:59	1		DB624 0.2(mm)
STD07AP 500-172615/17 IC		12/11/2012 21:27	1		DB624 0.2(mm)
STD08AP 500-172615/18 IC		12/11/2012 21:55	1		DB624 0.2(mm)
STD09AP 500-172615/19 IC		12/11/2012 22:24	1		DB624 0.2(mm)
STD03AP 500-172615/21 IC		12/11/2012 23:20	1		DB624 0.2(mm)
STD04AP 500-172615/22 IC		12/11/2012 23:48	1		DB624 0.2(mm)
ICV 500-172615/23		12/12/2012 00:17	1	22S1211.D	DB624 0.2(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: CMS22 Start Date: 12/13/2012 11:02

Analysis Batch Number: 172880 End Date: 12/13/2012 21:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-172880/1		12/13/2012 11:02	1	22B1213.D	DB624 0.2(mm)
CCV 500-172880/2		12/13/2012 11:40	1	22C1213.D	DB624 0.2(mm)
CCV 500-172880/3		12/13/2012 12:06	1	22D1213.D	DB624 0.2(mm)
LCS 500-172880/4		12/13/2012 12:32	1	22S1213.D	DB624 0.2(mm)
MB 500-172880/6		12/13/2012 13:24	1	22M1213.D	DB624 0.2(mm)
500-53164-6	TRIP BLANK	12/13/2012 13:50	1	53164-06.D	DB624 0.2(mm)
ZZZZZ		12/13/2012 14:15	1		DB624 0.2(mm)
ZZZZZ		12/13/2012 14:41	1		DB624 0.2(mm)
ZZZZZ		12/13/2012 15:06	1		DB624 0.2(mm)
ZZZZZ		12/13/2012 15:33	1		DB624 0.2(mm)
ZZZZZ		12/13/2012 15:59	1		DB624 0.2(mm)
ZZZZZ		12/13/2012 16:25	1		DB624 0.2(mm)
ZZZZZ		12/13/2012 16:51	1		DB624 0.2(mm)
500-53164-3	VLF-MW-7	12/13/2012 17:17	1	53164-03.D	DB624 0.2(mm)
500-53164-4	VLF-MW-5	12/13/2012 17:43	1	53164-04.D	DB624 0.2(mm)
500-53164-5	VLF-MW-2	12/13/2012 18:09	1	53164-05.D	DB624 0.2(mm)
500-53164-1	VLF-MW-6	12/13/2012 18:35	10	53164-01.D	DB624 0.2(mm)
500-53164-1 DL	VLF-MW-6 DL	12/13/2012 19:02	100	53164-01A.D	DB624 0.2(mm)
500-53164-2	VLF-MW-6A	12/13/2012 19:28	20	53164-02.D	DB624 0.2(mm)
500-53164-2 DL	VLF-MW-6A DL	12/13/2012 19:54	200	53164-02A.D	DB624 0.2(mm)
ZZZZZ		12/13/2012 20:20	2		DB624 0.2(mm)
ZZZZZ		12/13/2012 20:46	20		DB624 0.2(mm)
500-53164-3 MS	VLF-MW-7 MS	12/13/2012 21:12	1	53164-03S.D	DB624 0.2(mm)
500-53164-3 MSD	VLF-MW-7 MSD	12/13/2012 21:38	1	53164-03T.D	DB624 0.2(mm)

TestAmerica Chicago

GC/MS Volatiles: Sample Tracking Sheet

Screener: #3 12/13

1 500 - short

Job # 500-53164

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot #	Analytical Batch	misc info.
1	1/10	2	W	2 12/13/12	14364		172880	VC 3100 ex RDCS 11260
	1/100	↓	D1	↓	↓		↓	VC 4400 ex RDCS 13800
2	1/20	2	W	2 12/13/12	14364		172880	ex RDCS 11270
	1/200	↓	D1	↓	↓		↓	ex RDCS 11600
3	1	2	W	2 12/13/12	14364		172880	
3MS	1	2	W	2 12/13/12	14364		172880	
3 MSD	1	2	W	2 12/13/12	14364		172880	
4	1	2	W	2 12/13/12	14364		172880	

Reviewed by: [signature] Date: 1-2-13

CHI-22-20-075/D-09/11

TestAmerica Chicago

GC/MS Volatiles: Sample Tracking Sheet

Screener: _____

Job # 500-53164

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot #	Analytical Batch	misc info.
5	1	2	W	22 12/13/12	14364		172880	(W)
CTB	1	2	W	22 12/13/12	14364		172880	(W)

TestAmerica Chicago

GC/MS Volatiles: Internal Chain of Custody Form

ICOC Job Number: 560-53164

Date	Time Out	Time In	ICOC Initials	Misc. Info
12/13/12	1300	1310	[illegible]	[illegible]

CHI-22-20-074/A-0 /08

Method RSK-175

Dissolved Gases (GC) by Method RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 17dec121442-r011.d

Lab ID: LCS 200-49681/35 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methane	72.4	66.0	91	70-130	
Ethane	137	124	90	70-130	
Ethylene	128	120	93	70-130	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 17dec121527-r091.d

Lab ID: 500-53164-3 MS Client ID: VLF-MW-7 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methane	72.4	1.4 J	69.5	94	70-130	
Ethane	137	0.81 U	139	101	70-130	
Ethylene	128	0.73 U	133	104	70-130	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 17dec121527-r101.d

Lab ID: 500-53164-3 MSD Client ID: VLF-MW-7 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Methane	72.4	63.5	86	9	30	70-130	
Ethane	137	126	92	9	30	70-130	
Ethylene	128	121	94	10	30	70-130	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Lab Sample ID: MB 200-49681/3

Matrix: Water Date Extracted:

Lab File ID:(1) 17dec120932-r031.d Lab File ID:(2)

Date Analyzed:(1) 12/17/2012 10:03 Date Analyzed:(2)

Instrument ID:(1) 2866.i Instrument ID:(2)

GC Column:(1) RT-U-Plot 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 200-49681/35	12/17/2012 14:48	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Lab Sample ID: MB 200-49681/36

Matrix: Water Date Extracted:

Lab File ID:(1) 17dec121442-r021.d Lab File ID:(2)

Date Analyzed:(1) 12/17/2012 15:03 Date Analyzed:(2)

Instrument ID:(1) 2866.i Instrument ID:(2)

GC Column:(1) RT-U-Plot 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
VLF-MW-6	500-53164-1	12/17/2012 16:17	
VLF-MW-7	500-53164-3	12/17/2012 16:28	
VLF-MW-7 MS	500-53164-3 MS	12/17/2012 16:33	
VLF-MW-7 MSD	500-53164-3 MSD	12/17/2012 16:38	
VLF-MW-5	500-53164-4	12/17/2012 16:43	
VLF-MW-2	500-53164-5	12/17/2012 16:48	
VLF-MW-6A	500-53164-2	12/18/2012 09:09	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-6 Lab Sample ID: 500-53164-1

Matrix: Water Lab File ID: 17dec121527-r061.d

Analysis Method: RSK-175 Date Collected: 12/11/2012 10:11

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 16:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	50		2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	37		3.0	0.73

TestAmerica Burlington

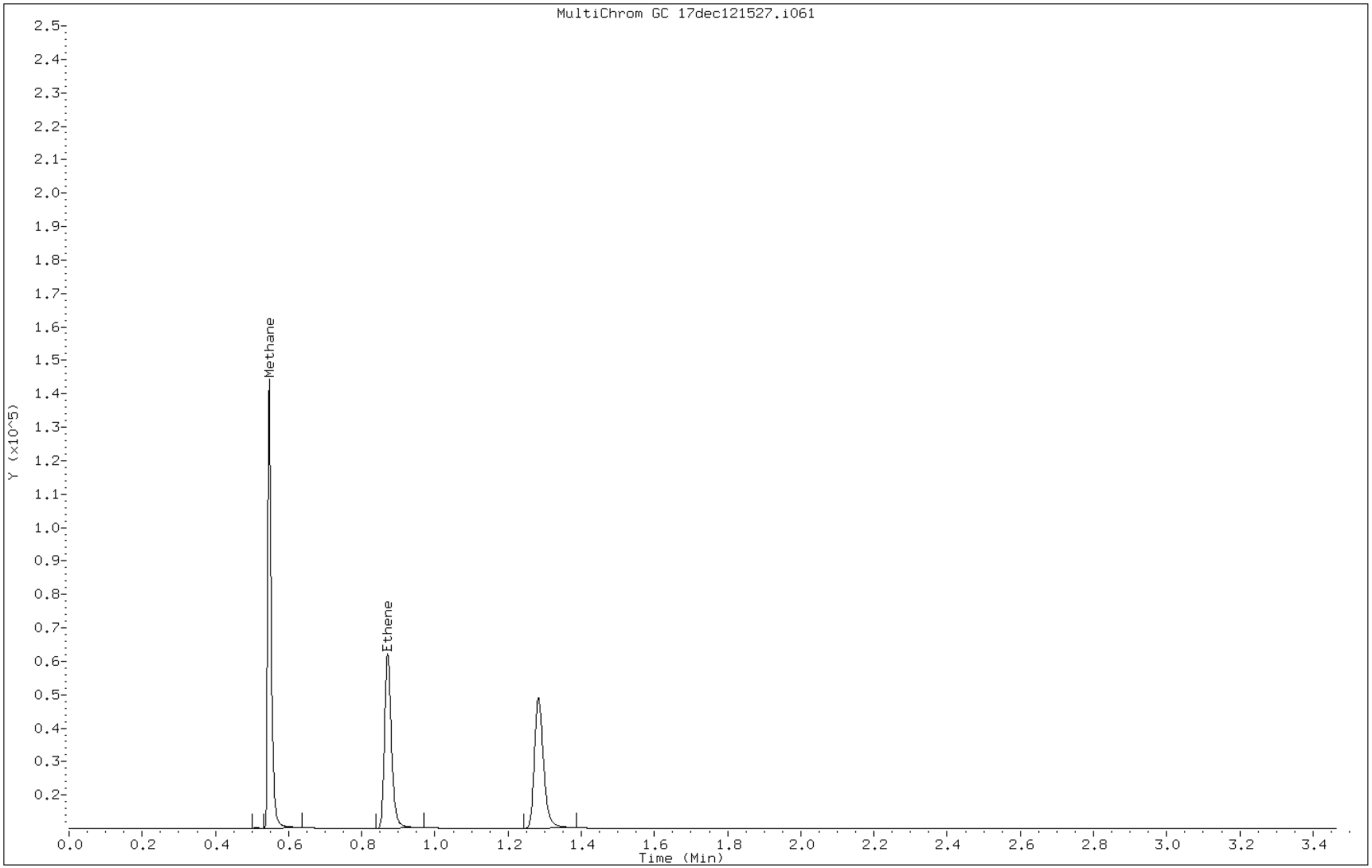
Lab Sample Id: 500-53164-1
Client Smp ID: VLF-MW-6
Inj Date : 17-DEC-2012 16:17
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53164-A-1,1
Misc Info : 500-53164-A-1
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.547	0.557	-0.010	91874	49.8849	50
2 Ethene	0.871	0.884	-0.013	69614	36.9588	37

Data File:	17dec121527-r061.d	Date:	17-DEC-2012 16:17
Client ID:	VLF-MW-6	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53164-A-1,1		
Lab Sample ID:	500-53164-1		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-6A Lab Sample ID: 500-53164-2

Matrix: Water Lab File ID: 18dec120842-r021.d

Analysis Method: RSK-175 Date Collected: 12/11/2012 10:11

Sample wt/vol: 18(mL) Date Analyzed: 12/18/2012 09:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	47		2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	36		3.0	0.73

TestAmerica Burlington

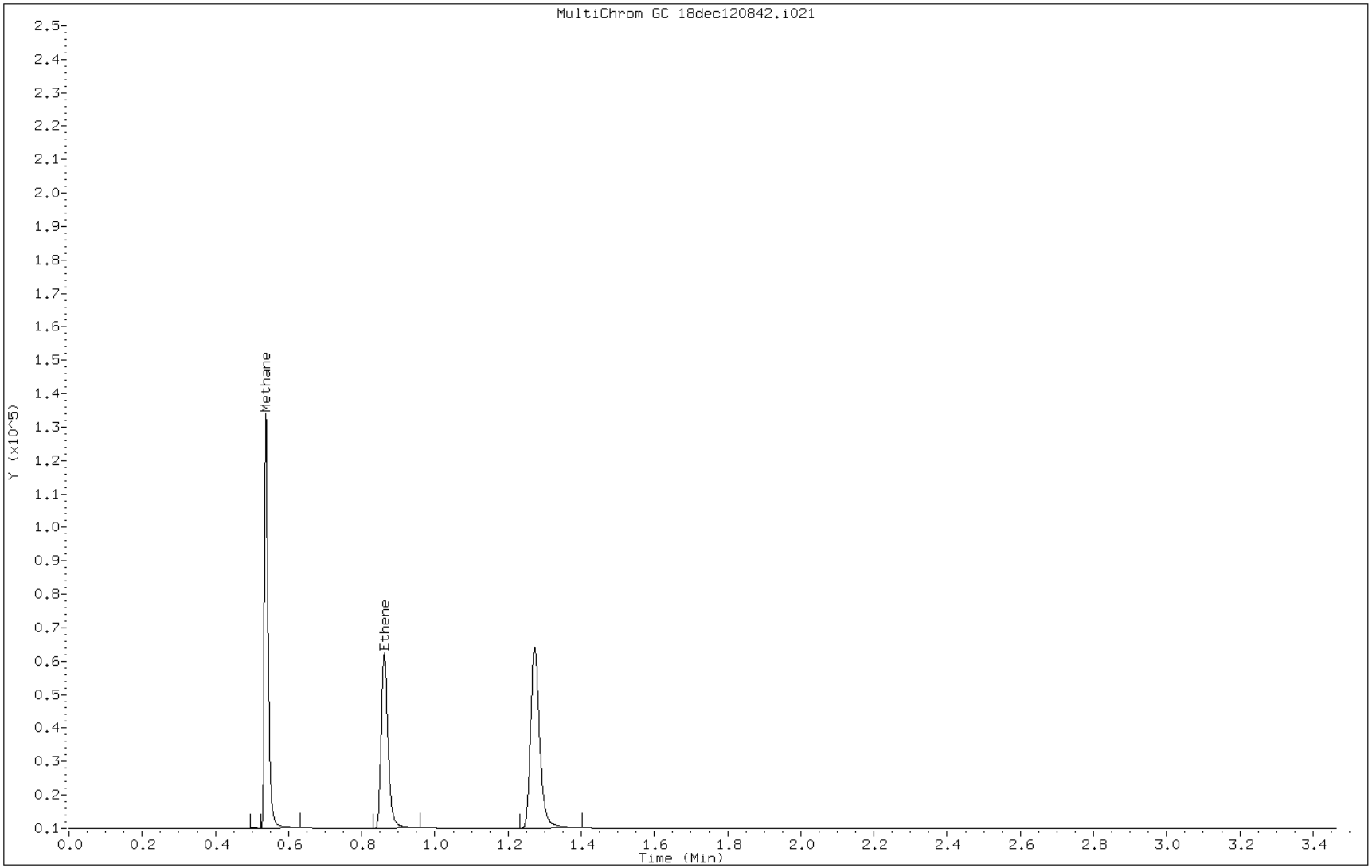
Lab Sample Id: 500-53164-2
Client Smp ID: VLF-MW-6A
Inj Date : 18-DEC-2012 09:09
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53164-E-2,1
Misc Info : 500-53164-E-2
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.538	0.557	-0.019	86149	46.7767	47
2 Ethene	0.861	0.884	-0.023	68520	36.3780	36

Data File:	18dec120842-r021.d	Date:	18-DEC-2012 09:09
Client ID:	VLF-MW-6A	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53164-E-2,1		
Lab Sample ID:	500-53164-2		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-7 Lab Sample ID: 500-53164-3

Matrix: Water Lab File ID: 17dec121527-r081.d

Analysis Method: RSK-175 Date Collected: 12/11/2012 11:30

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 16:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	1.4	J	2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	0.73	U	3.0	0.73

TestAmerica Burlington

Lab Sample Id: 500-53164-3
Client Smp ID: VLF-MW-7
Inj Date : 17-DEC-2012 16:28
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53164-A-3,1
Misc Info : 500-53164-A-3
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

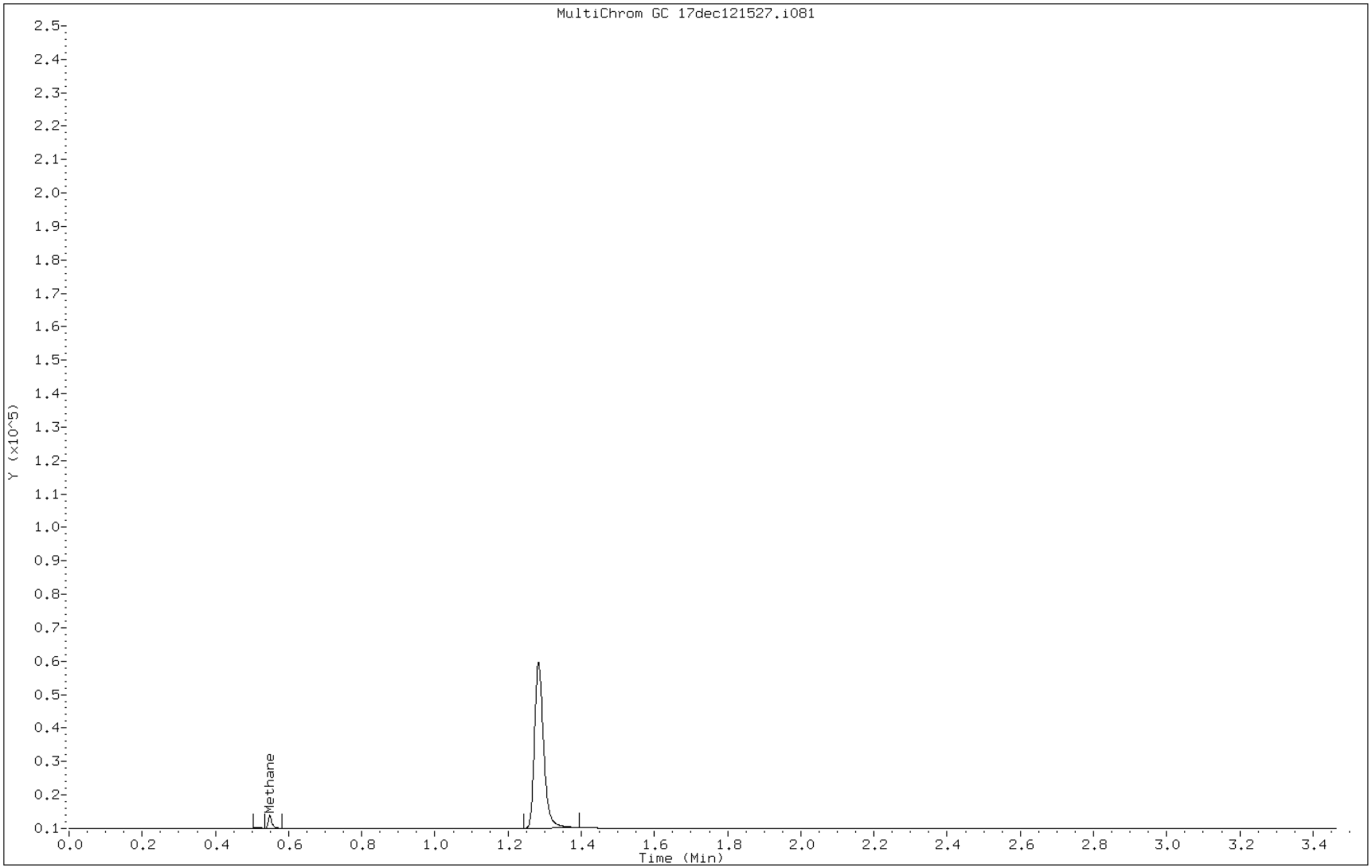
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.549	0.557	-0.008	2585	1.40377	1.4(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	17dec121527-r081.d	Date:	17-DEC-2012 16:28
Client ID:	VLF-MW-7	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53164-A-3,1		
Lab Sample ID:	500-53164-3		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-5 Lab Sample ID: 500-53164-4

Matrix: Water Lab File ID: 17dec121527-r111.d

Analysis Method: RSK-175 Date Collected: 12/11/2012 12:23

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 16:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	0.45	U	2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	0.73	U	3.0	0.73

TestAmerica Burlington

Lab Sample Id: 500-53164-4
Client Smp ID: VLF-MW-5
Inj Date : 17-DEC-2012 16:43
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53164-A-4,1
Misc Info : 500-53164-A-4
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

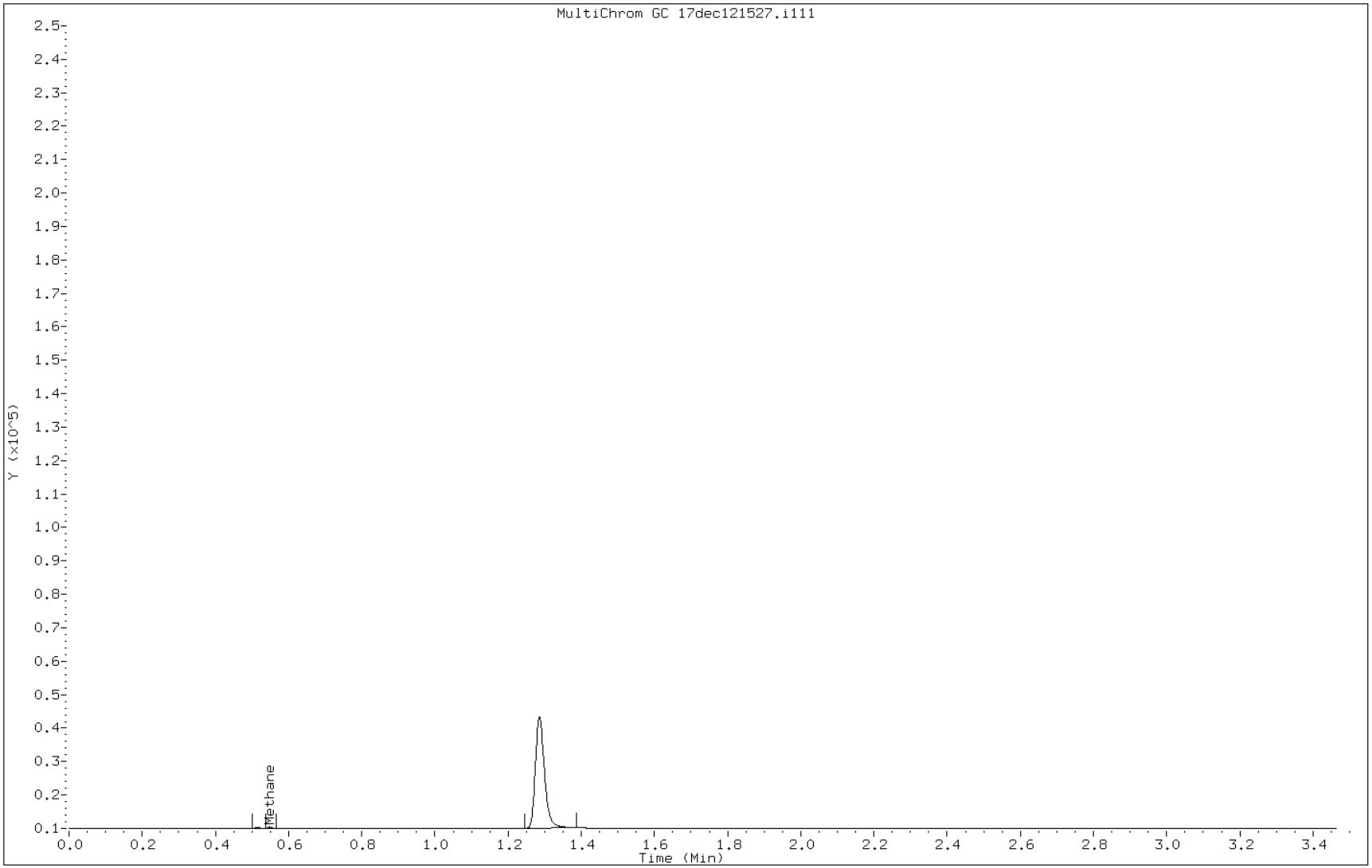
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.549	0.557	-0.008	250	0.13594	0.14(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	17dec121527-r111.d	Date:	17-DEC-2012 16:43
Client ID:	VLF-MW-5	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53164-A-4,1		
Lab Sample ID:	500-53164-4		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-2 Lab Sample ID: 500-53164-5

Matrix: Water Lab File ID: 17dec121527-r121.d

Analysis Method: RSK-175 Date Collected: 12/11/2012 14:20

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 16:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	13		2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	0.73	U	3.0	0.73

TestAmerica Burlington

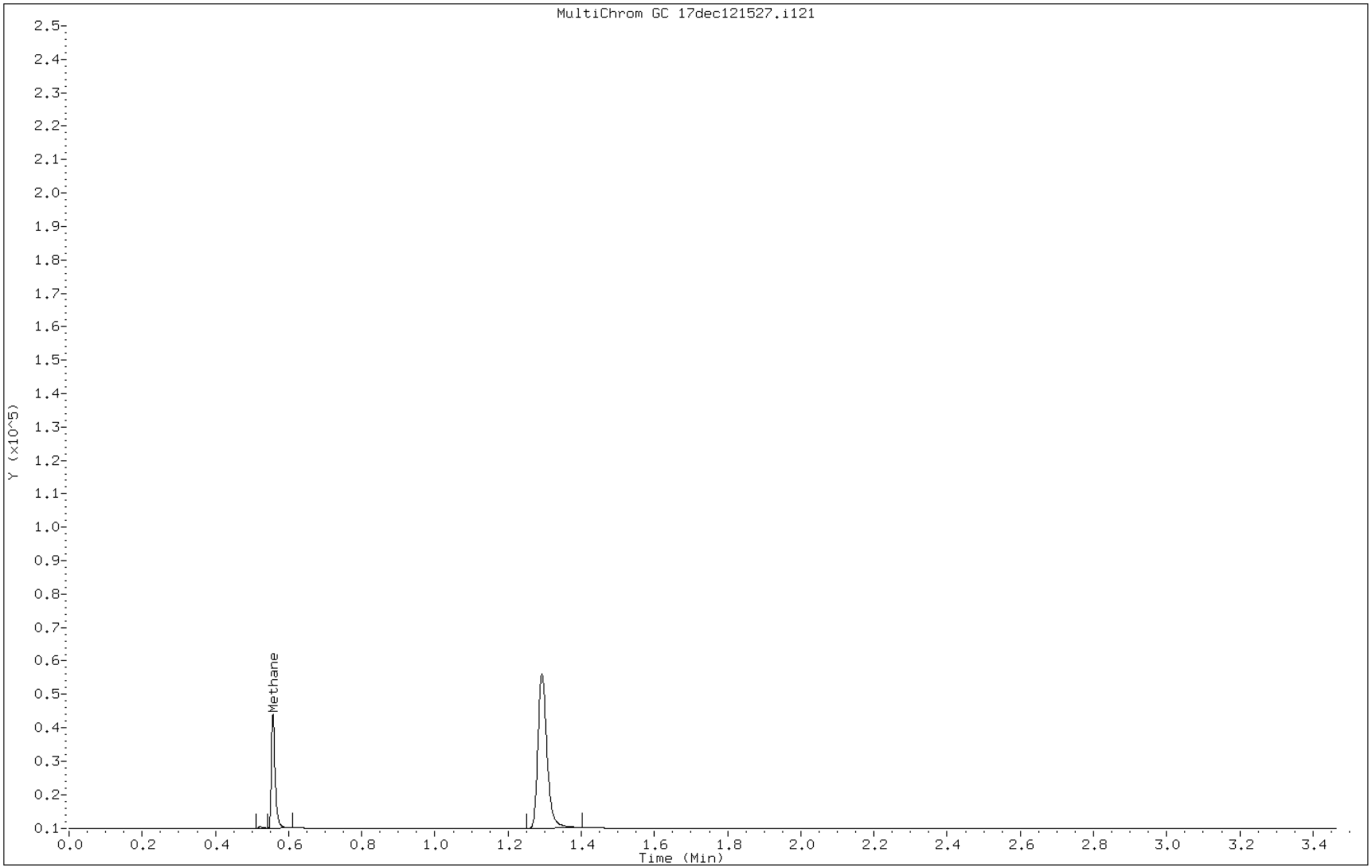
Lab Sample Id: 500-53164-5
Client Smp ID: VLF-MW-2
Inj Date : 17-DEC-2012 16:48
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53164-A-5,1
Misc Info : 500-53164-A-5
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.558	0.557	0.001	24348	13.2207	13

Data File:	17dec121527-r121.d	Date:	17-DEC-2012 16:48
Client ID:	VLF-MW-2	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53164-A-5,1		
Lab Sample ID:	500-53164-5		



FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1 Analy Batch No.: 46202

SDG No.:

Instrument ID: 2866.i GC Column: RT-U-Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2012 13:42 Calibration End Date: 10/09/2012 14:02 Calibration ID: 18045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-46202/1	09oct121308-r011.d
Level 2	IC 200-46202/2	09oct121308-r021.d
Level 3	ICRT 200-46202/3	09oct121308-r031.d
Level 4	IC 200-46202/4	09oct121308-r041.d
Level 5	IC 200-46202/5	09oct121308-r051.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Methane	0.550	0.557	0.557	0.556	0.550						0.507 - 0.607	0.554
Ethylene	0.878	0.884	0.884	0.880	0.876						0.784 - 0.984	0.880
Ethane	1.000	1.007	1.007	1.002	0.997						0.907 - 1.107	1.002

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 500-53164-1 Analy Batch No.: 46202

SDG No.:

Instrument ID: 2866.i GC Column: RT-U-Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2012 13:42 Calibration End Date: 10/09/2012 14:02 Calibration ID: 18045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-46202/1	09oct121308-r011.d
Level 2	IC 200-46202/2	09oct121308-r021.d
Level 3	ICRT 200-46202/3	09oct121308-r031.d
Level 4	IC 200-46202/4	09oct121308-r041.d
Level 5	IC 200-46202/5	09oct121308-r051.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 3	LVL 4		B	M1	M2								
Methane	1721.2 1673.8	1873.2	1942.0	1998.4	Ave		1841.72026				7.6		30.0			
Ethylene	1798.7 1683.8	1944.2	1949.8	2041.4	Ave		1883.57600				7.5		30.0			
Ethane	1753.4 1719.4	1934.2	1999.3	2057.1	Ave		1892.69372				7.9		30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 500-53164-1 Analy Batch No.: 46202

SDG No.:

Instrument ID: 2866.i GC Column: RT-U-Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/09/2012 13:42 Calibration End Date: 10/09/2012 14:02 Calibration ID: 18045

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-46202/1	09oct121308-r011.d
Level 2	IC 200-46202/2	09oct121308-r021.d
Level 3	ICRT 200-46202/3	09oct121308-r031.d
Level 4	IC 200-46202/4	09oct121308-r041.d
Level 5	IC 200-46202/5	09oct121308-r051.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Methane	Ave	2926	33718	141766	435643	607604	1.70	18.0	73.0	218	363
Ethylene	Ave	5396	62215	247625	777776	1070887	3.00	32.0	127	381	636
Ethane	Ave	5611	65764	271910	841356	1170879	3.20	34.0	136	409	681

Curve Type Legend:
Ave = Average

TestAmerica Burlington

Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r011.d
Lab Smp Id: IC
Inj Date : 09-OCT-2012 13:42
Operator : TFS Inst ID: 2866_1.i
Smp Info : IC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:57 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:42 Cal File: 09oct121308-r011.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

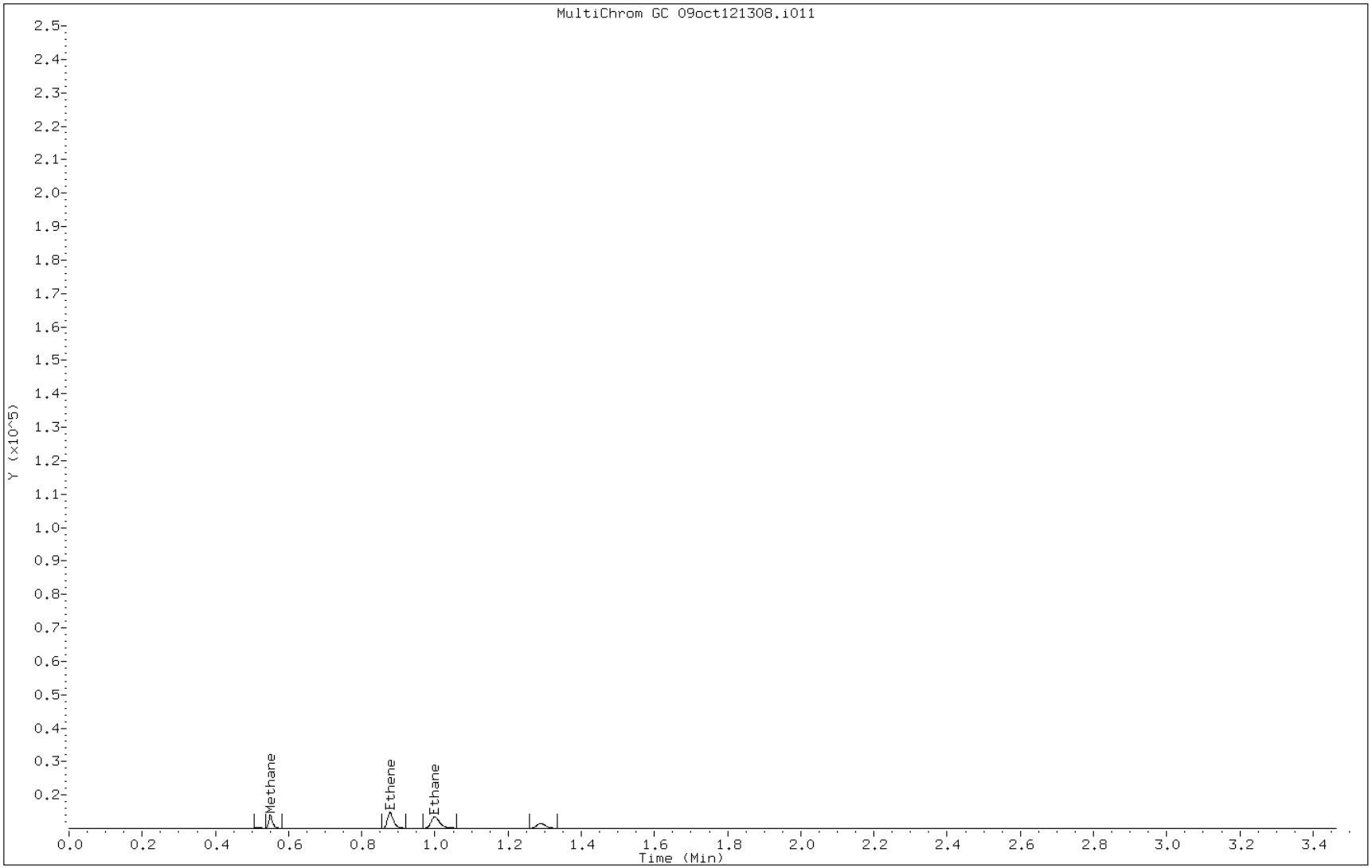
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.550	0.557	-0.007	2926	1.70000	1.6(a)
2 Ethene	0.878	0.884	-0.006	5396	3.00000	2.9(a)
3 Ethane	1.000	1.006	-0.006	5611	3.20000	3.0(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	09oct121308-r011.d	Date:	09-OCT-2012 13:42
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	IC,1		
Lab Sample ID:	IC		



TestAmerica Burlington

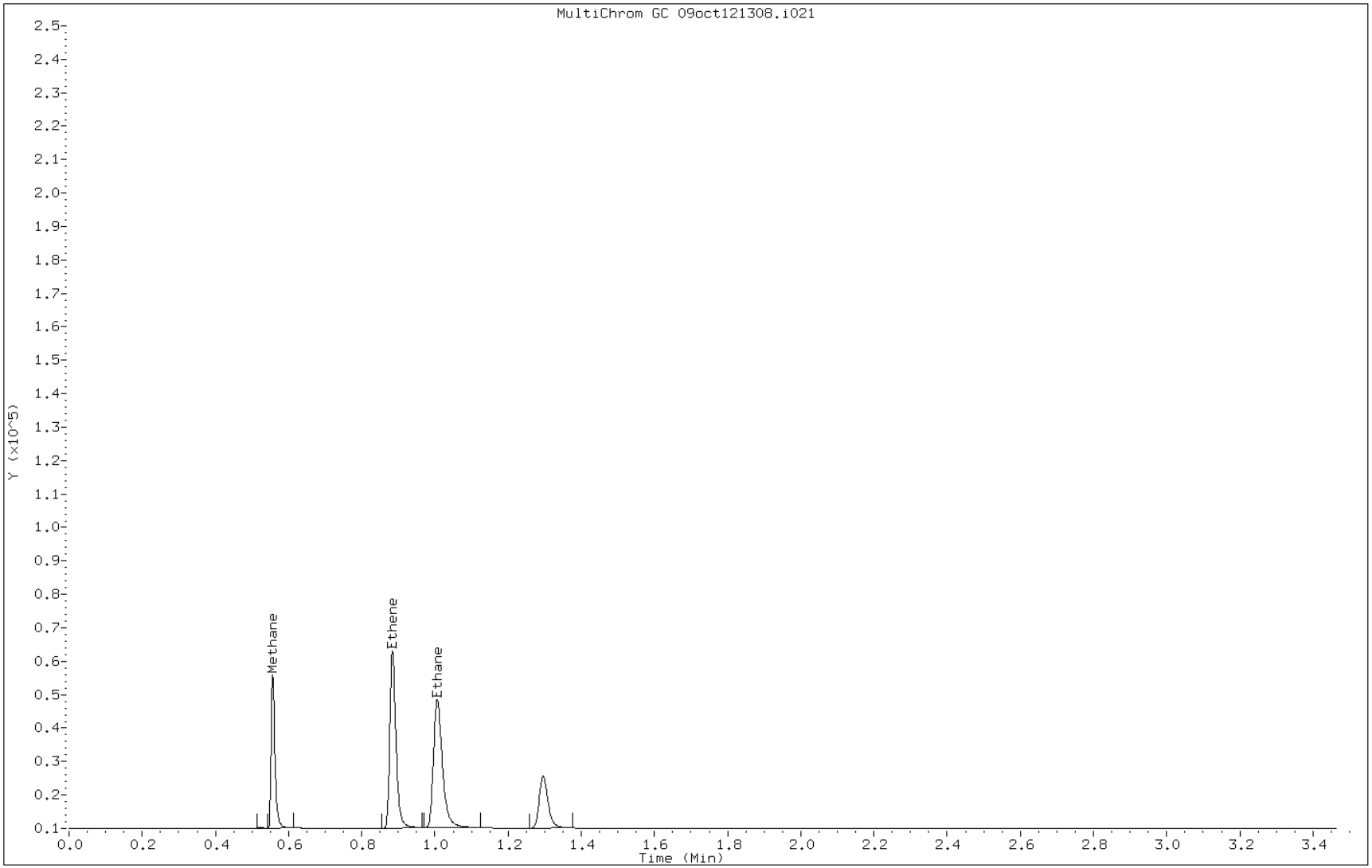
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r021.d
Lab Smp Id: IC
Inj Date : 09-OCT-2012 13:46
Operator : TFS Inst ID: 2866_1.i
Smp Info : IC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:57 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:46 Cal File: 09oct121308-r021.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.557	0.557	0.000	33718	18.0000	18
2 Ethene	0.884	0.884	0.000	62215	32.0000	33
3 Ethane	1.006	1.006	0.000	65764	34.0000	35

Data File:	09oct121308-r021.d	Date:	09-OCT-2012 13:46
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	IC,1		
Lab Sample ID:	IC		



TestAmerica Burlington

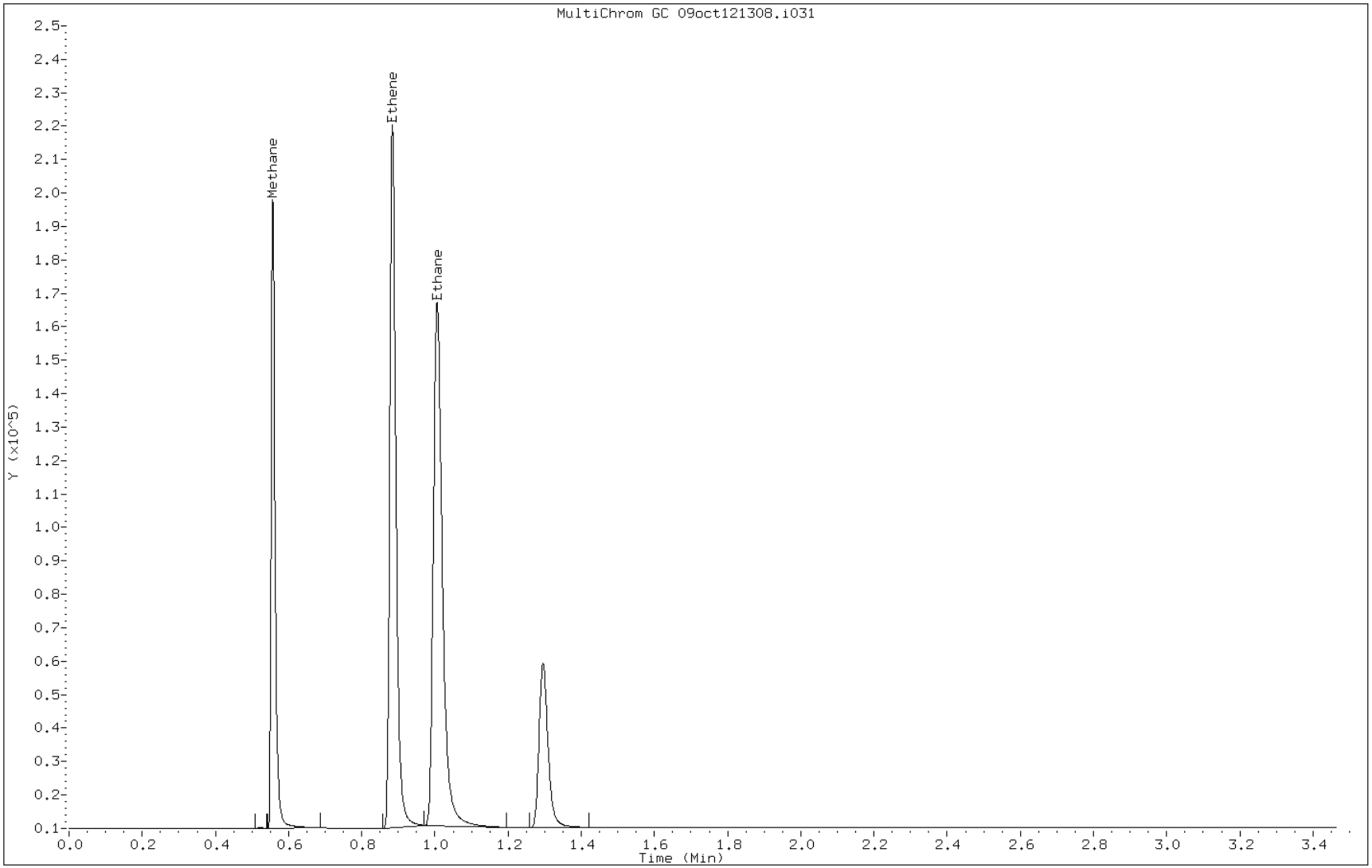
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r031.d
Lab Smp Id: ICRT
Inj Date : 09-OCT-2012 13:51
Operator : TFS Inst ID: 2866_1.i
Smp Info : ICRT,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 10-Oct-2012 09:18 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.557	0.557	0.000	141766	73.0000	77
2 Ethene	0.884	0.884	0.000	247625	127.000	130
3 Ethane	1.006	1.006	0.000	271910	136.000	140

Data File:	09oct121308-r031.d	Date:	09-OCT-2012 13:51
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	ICRT,1		
Lab Sample ID:	ICRT		



TestAmerica Burlington

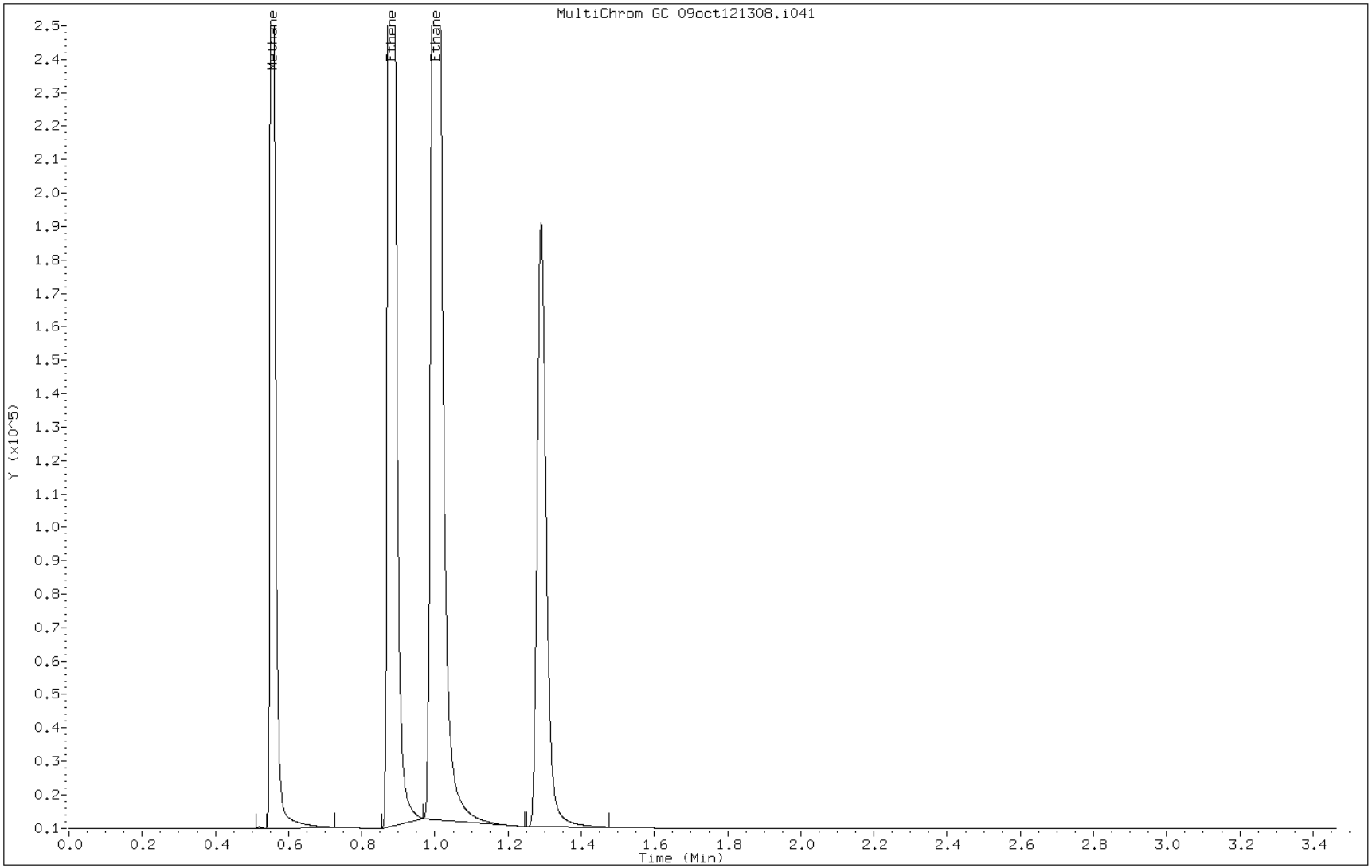
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r041.d
Lab Smp Id: IC
Inj Date : 09-OCT-2012 13:57
Operator : TFS Inst ID: 2866_1.i
Smp Info : IC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:57 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:57 Cal File: 09oct121308-r041.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.556	0.557	-0.001	435643	218.000	230
2 Ethene	0.880	0.884	-0.004	777776	381.000	400
3 Ethane	1.002	1.006	-0.004	841356	409.000	430

Data File:	09oct121308-r041.d	Date:	09-OCT-2012 13:57
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	IC,1		
Lab Sample ID:	IC		



TestAmerica Burlington

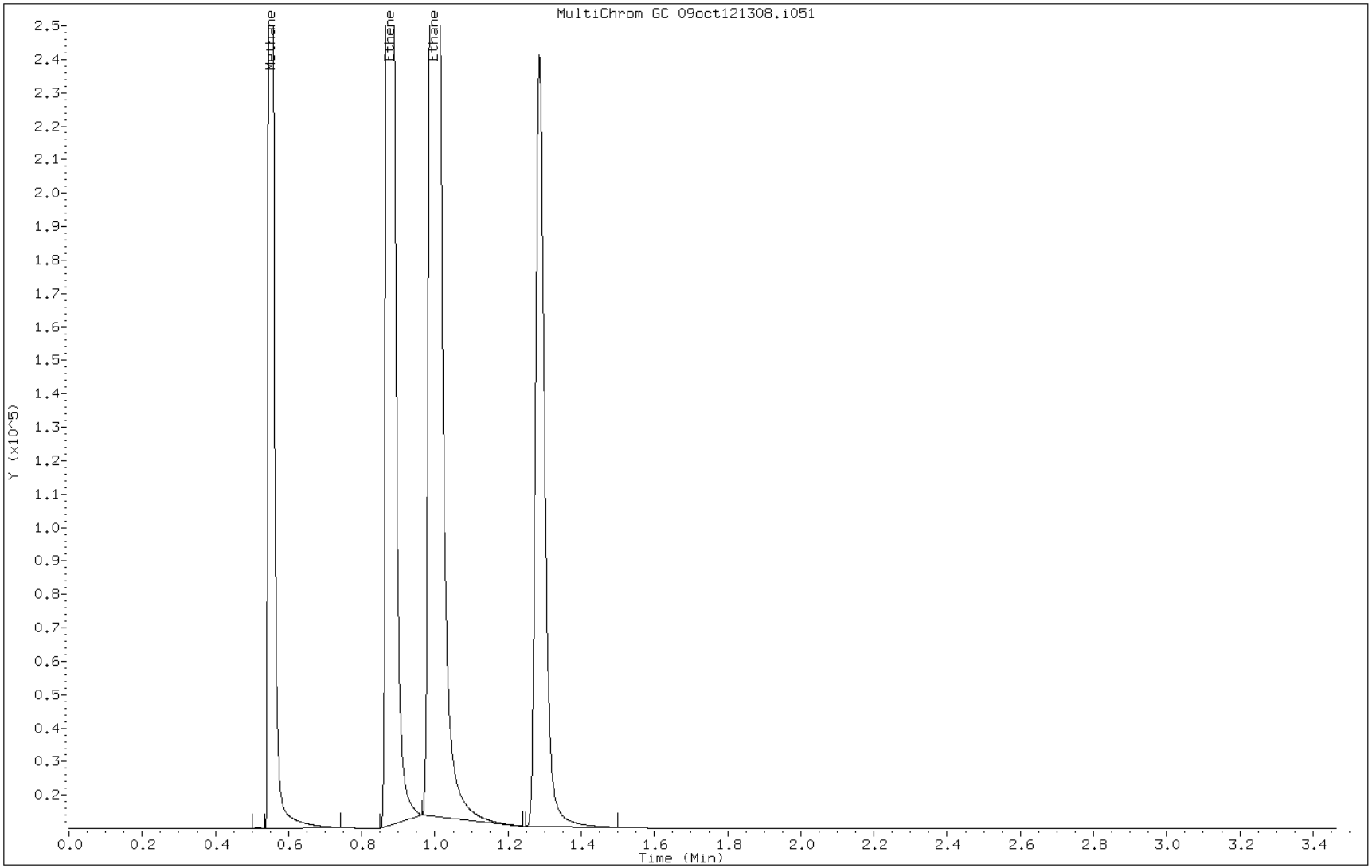
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r051.d
Lab Smp Id: IC
Inj Date : 09-OCT-2012 14:02
Operator : TFS Inst ID: 2866_1.i
Smp Info : IC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:57 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 14:02 Cal File: 09oct121308-r051.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.550	0.557	-0.007	607604	363.000	330
2 Ethene	0.876	0.884	-0.008	1070887	636.000	570
3 Ethane	0.997	1.006	-0.009	1170879	681.000	620

Data File:	09oct121308-r051.d	Date:	09-OCT-2012 14:02
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	IC,1		
Lab Sample ID:	IC		



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Lab Sample ID: ICV 200-46202/6 Calibration Date: 10/09/2012 14:07

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 09oct121308-r061.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	1842	1886		74.1	72.4	2.4	30.0
Ethylene	Ave	1884	1854		126	128	-1.6	30.0
Ethane	Ave	1893	1878		136	137	-0.8	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Lab Sample ID: ICV 200-46202/6 Calibration Date: 10/09/2012 14:07

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 09oct121308-r061.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.56	0.51	0.61
Ethylene	0.89	0.78	0.98
Ethane	1.01	0.91	1.11

TestAmerica Burlington

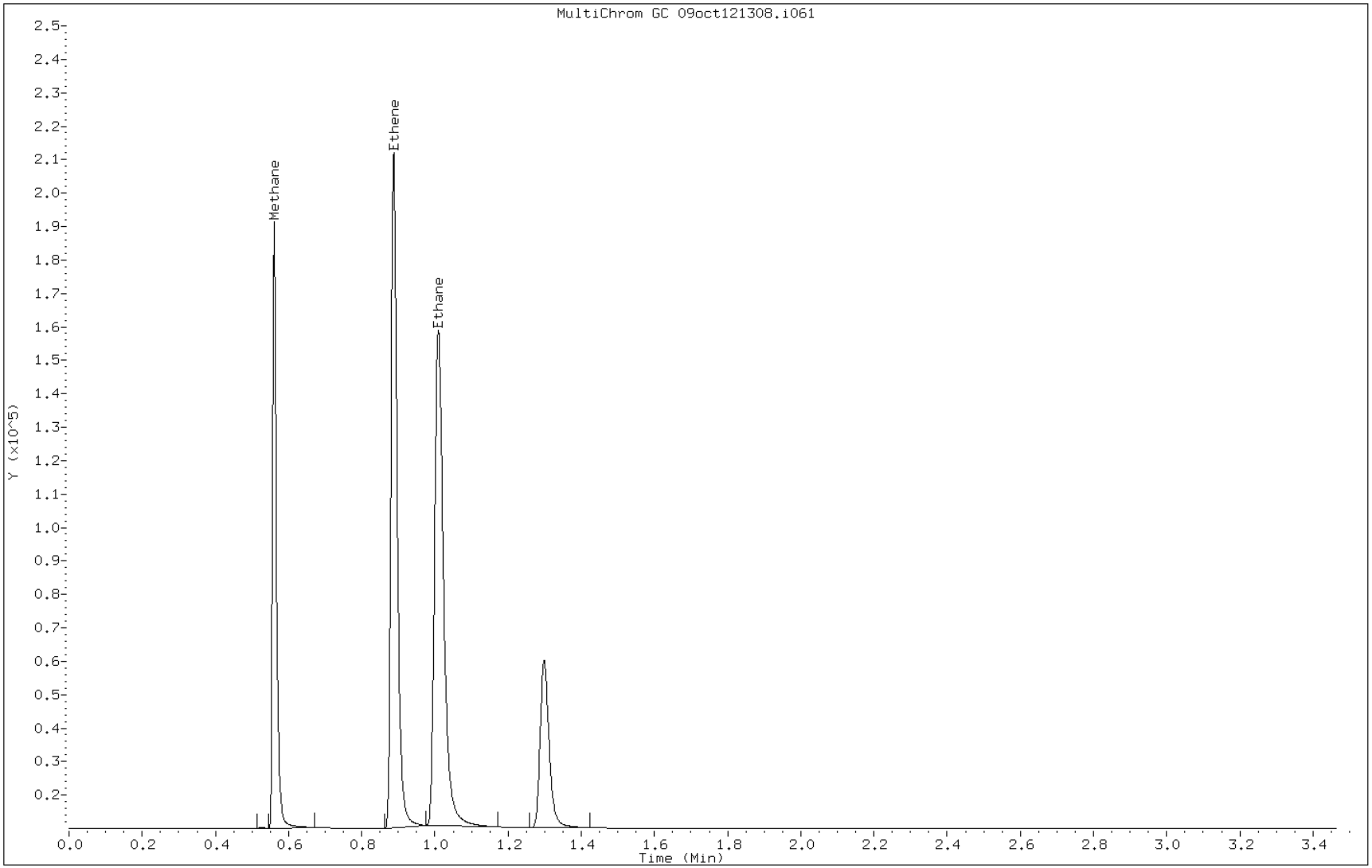
Data file : /var/chem/2866_1.i/100912_1/09OCT121308.b/09oct121308-r061.d
Lab Smp Id: ICV
Inj Date : 09-OCT-2012 14:07
Operator : TFS Inst ID: 2866_1.i
Smp Info : ICV,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/09OCT121308.b/RSK175_2007.m
Meth Date : 09-Oct-2012 14:58 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 14:02 Cal File: 09oct121308-r051.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.561	0.557	0.004	136529	74.1317	74
2 Ethene	0.888	0.884	0.004	237811	126.255	130
3 Ethane	1.010	1.006	0.004	256624	135.587	140

Data File:	09oct121308-r061.d	Date:	09-OCT-2012 14:07
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	ICV,1		
Lab Sample ID:	ICV		



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Lab Sample ID: CCV 200-49681/1 Calibration Date: 12/17/2012 09:54

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 17dec120932-r011.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	1842	2261		88.9	72.4	22.8	30.0
Ethylene	Ave	1884	2341		159	128	24.3	30.0
Ethane	Ave	1893	2331		168	137	23.2	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Lab Sample ID: CCV 200-49681/1 Calibration Date: 12/17/2012 09:54

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 17dec120932-r011.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.55	0.51	0.61
Ethylene	0.88	0.78	0.98
Ethane	1.00	0.91	1.11

TestAmerica Burlington

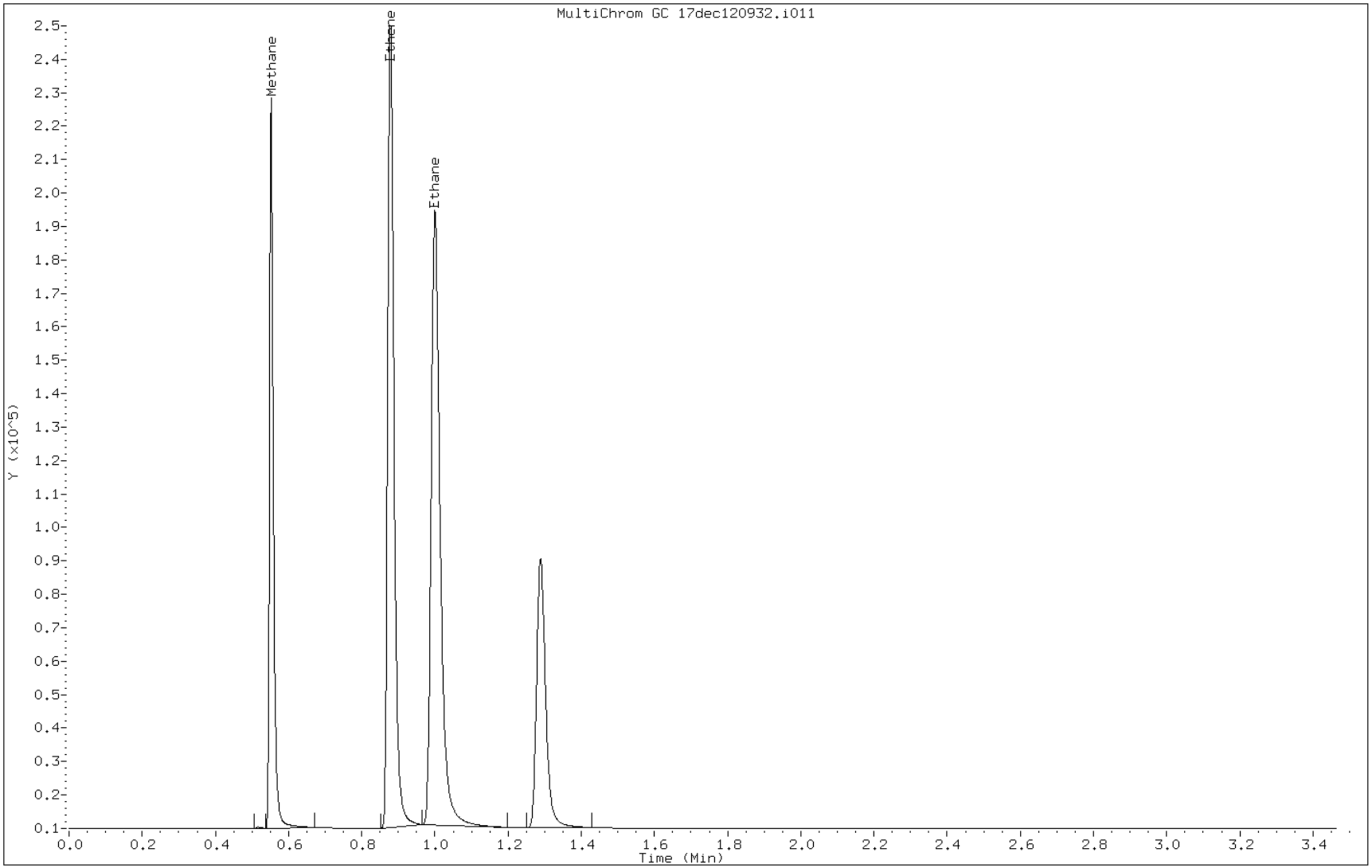
Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/17dec120932-r011.d
Lab Smp Id: CCV
Inj Date : 17-DEC-2012 09:54
Operator : TFS Inst ID: 2866_1.i
Smp Info : CCV,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.552	0.557	-0.005	163727	73.0000	89
2 Ethene	0.878	0.884	-0.006	300248	127.000	160
3 Ethane	1.000	1.006	-0.006	318596	136.000	170

Data File:	17dec120932-r011.d	Date:	17-DEC-2012 09:54
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	CCV,1		
Lab Sample ID:	CCV		



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Lab Sample ID: CCVC 200-49681/62 Calibration Date: 12/18/2012 09:20

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 18dec120842-r041.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	1842	1819		71.5	72.4	-1.2	30.0
Ethylene	Ave	1884	1854		126	128	-1.6	30.0
Ethane	Ave	1893	1867		135	137	-1.3	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Lab Sample ID: CCVC 200-49681/62 Calibration Date: 12/18/2012 09:20

Instrument ID: 2866.i Calib Start Date: 10/09/2012 13:42

GC Column: RT-U-Plot ID: 0.53(mm) Calib End Date: 10/09/2012 14:02

Lab File ID: 18dec120842-r041.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	0.55	0.51	0.61
Ethylene	0.87	0.78	0.98
Ethane	0.99	0.91	1.11

TestAmerica Burlington

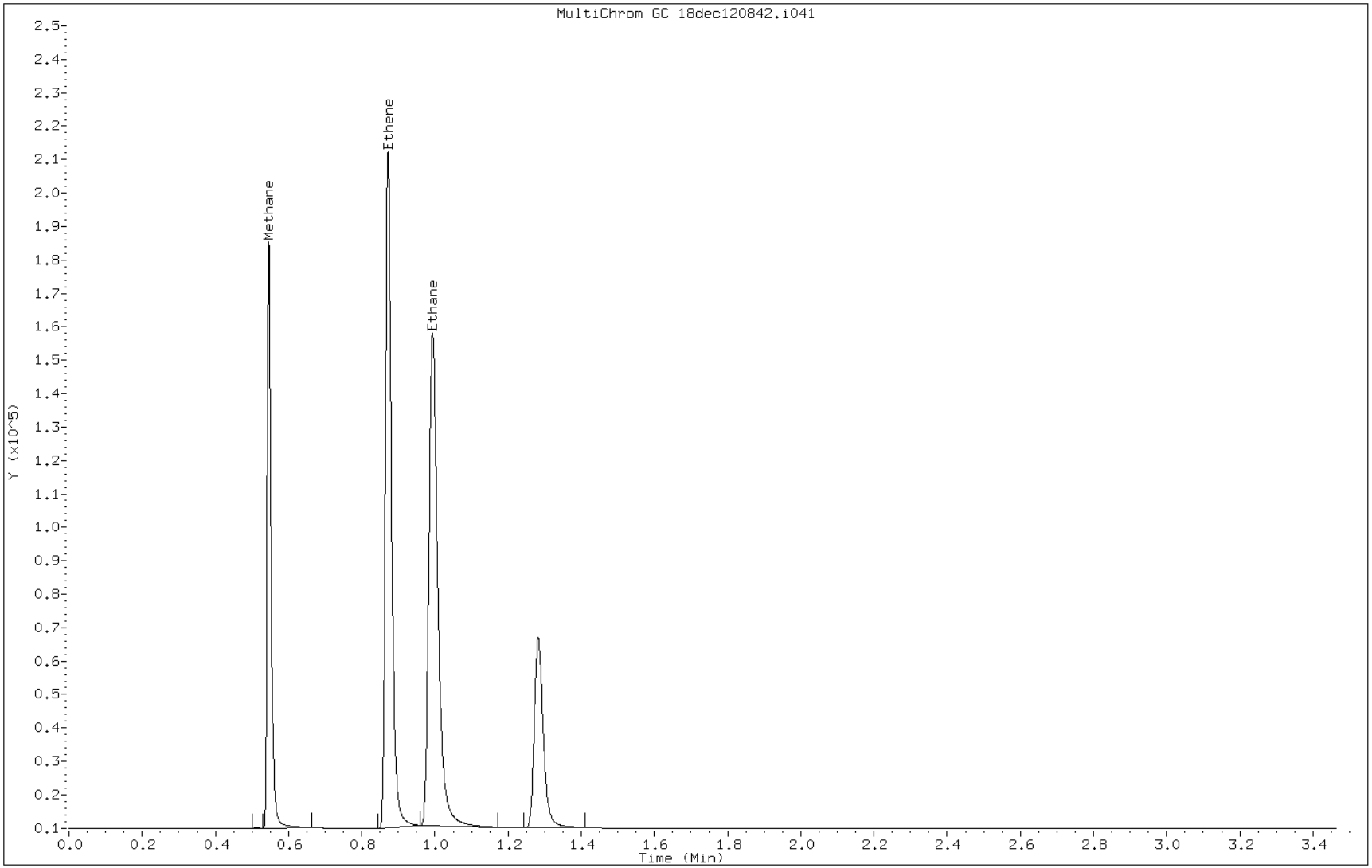
Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/18dec120842-r041.d
Lab Smp Id: CCVC
Inj Date : 18-DEC-2012 09:20
Operator : TFS Inst ID: 2866_1.i
Smp Info : CCVC,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 18-Dec-2012 09:30 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.546	0.557	-0.011	131719	73.0000	72
2 Ethene	0.872	0.884	-0.012	237829	127.000	130
3 Ethane	0.993	1.006	-0.013	255213	136.000	130

Data File:	18dec120842-r041.d	Date:	18-DEC-2012 09:20
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	CCVC,1		
Lab Sample ID:	CCVC		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 500-53164-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 200-49681/3
Matrix: Water
Lab File ID: 17dec120932-r031.d
Analysis Method: RSK-175
Date Collected:
Sample wt/vol: 18(mL)
Date Analyzed: 12/17/2012 10:03
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RT-U-Plot ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 49681
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	0.45	U	2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	0.73	U	3.0	0.73

TestAmerica Burlington

Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/17dec120932-r031.d
Lab Smp Id: MB
Inj Date : 17-DEC-2012 10:03
Operator : TFS Inst ID: 2866_1.i
Smp Info : MB,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

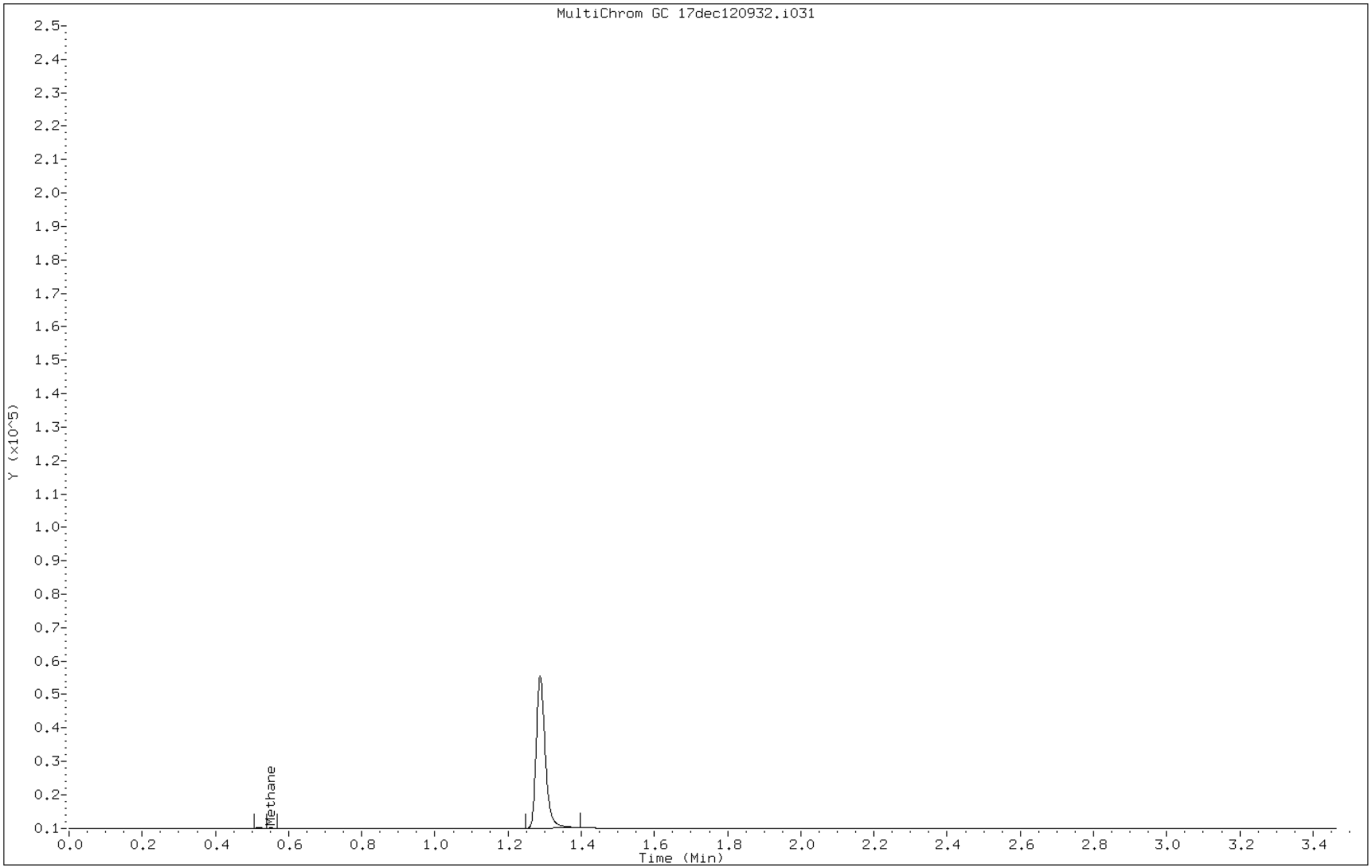
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.551	0.557	-0.006	199	0.10806	0.11(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	17dec120932-r031.d	Date:	17-DEC-2012 10:03
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	MB,1		
Lab Sample ID:	MB		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 500-53164-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 200-49681/36
Matrix: Water
Lab File ID: 17dec121442-r021.d
Analysis Method: RSK-175
Date Collected:
Sample wt/vol: 18(mL)
Date Analyzed: 12/17/2012 15:03
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RT-U-Plot ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 49681
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	0.45	U	2.0	0.45
74-84-0	Ethane	0.81	U	4.0	0.81
74-85-1	Ethylene	0.73	U	3.0	0.73

TestAmerica Burlington

Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/17dec121442-r021.d
Lab Smp Id: MB
Inj Date : 17-DEC-2012 15:03
Operator : TFS Inst ID: 2866_1.i
Smp Info : MB,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

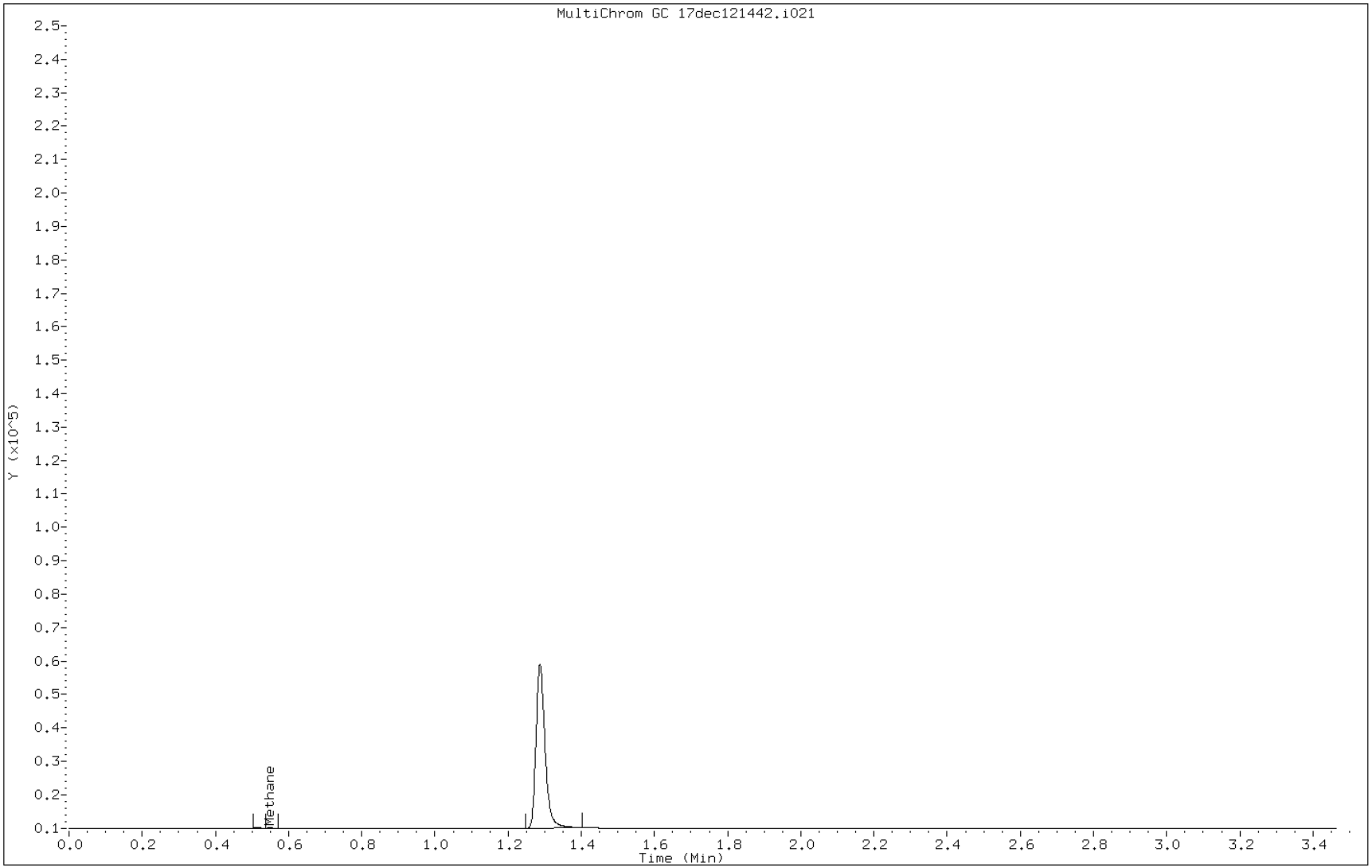
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.549	0.557	-0.008	225	0.12247	0.12(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	17dec121442-r021.d	Date:	17-DEC-2012 15:03
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	MB,1		
Lab Sample ID:	MB		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 500-53164-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 200-49681/35
Matrix: Water
Lab File ID: 17dec121442-r011.d
Analysis Method: RSK-175
Date Collected:
Sample wt/vol: 18(mL)
Date Analyzed: 12/17/2012 14:48
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RT-U-Plot ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 49681
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	66.0		2.0	0.45
74-84-0	Ethane	124		4.0	0.81
74-85-1	Ethylene	120		3.0	0.73

TestAmerica Burlington

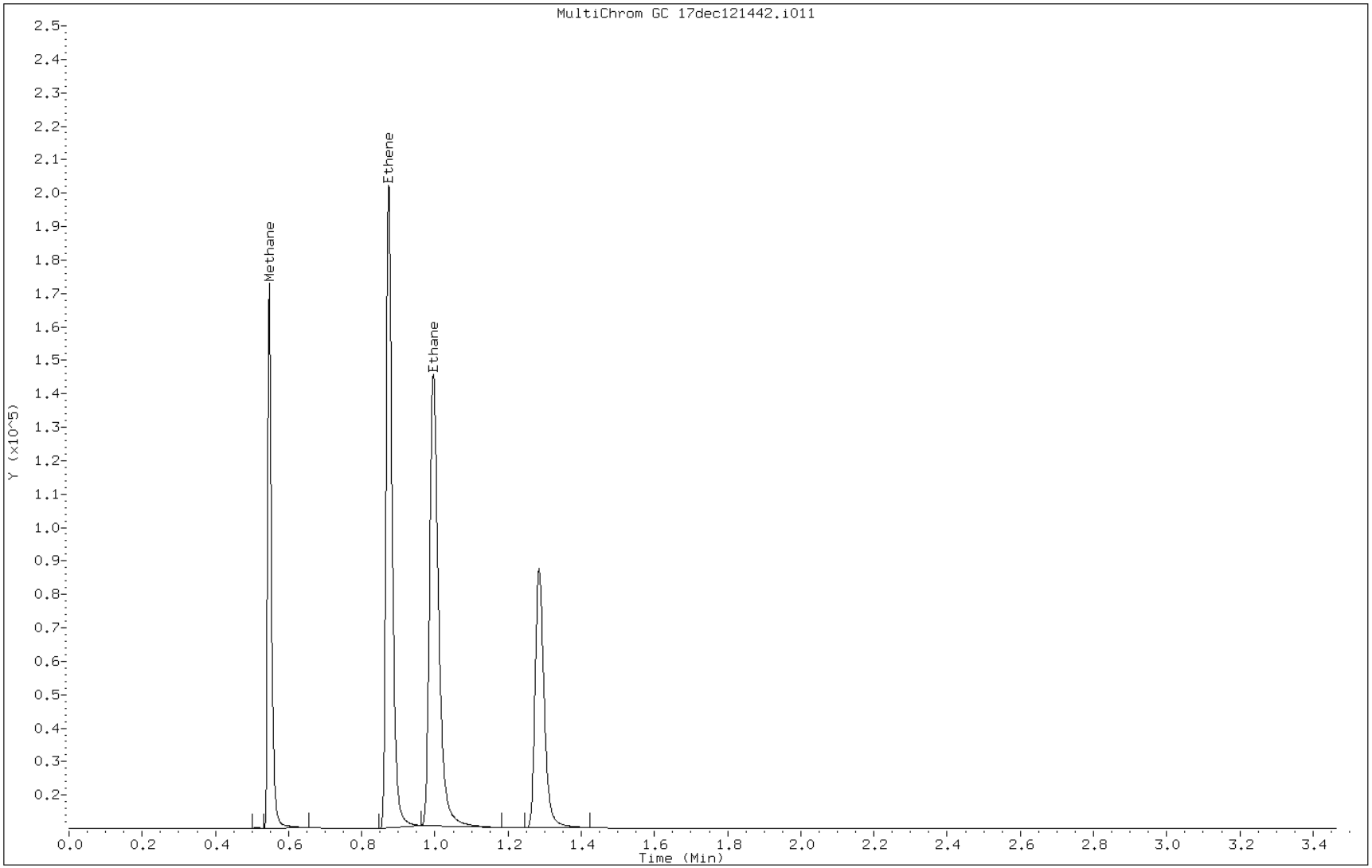
Data file : /var/chem/2866_1.i/100912_1/17DEC120932.b/17dec121442-r011.d
Lab Smp Id: LCS
Inj Date : 17-DEC-2012 14:48
Operator : TFS Inst ID: 2866_1.i
Smp Info : LCS,1
Misc Info :
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 17-Dec-2012 10:08 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.547	0.557	-0.010	121592	66.0213	66
2 Ethene	0.873	0.884	-0.011	225803	119.880	120
3 Ethane	0.996	1.006	-0.010	233761	123.507	120

Data File:	17dec121442-r011.d	Date:	17-DEC-2012 14:48
Client ID:		Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	LCS,1		
Lab Sample ID:	LCS		



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-7 MS Lab Sample ID: 500-53164-3 MS

Matrix: Water Lab File ID: 17dec121527-r091.d

Analysis Method: RSK-175 Date Collected: 12/11/2012 11:30

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 16:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	69.5		2.0	0.45
74-84-0	Ethane	139		4.0	0.81
74-85-1	Ethylene	133		3.0	0.73

TestAmerica Burlington

Lab Sample Id: 500-53164-3 MS
Client Smp ID: VLF-MW-7
Inj Date : 17-DEC-2012 16:33
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53164-A-3 MS,1
Misc Info : 500-53164-A-3 MS
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 18-Dec-2012 09:30 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

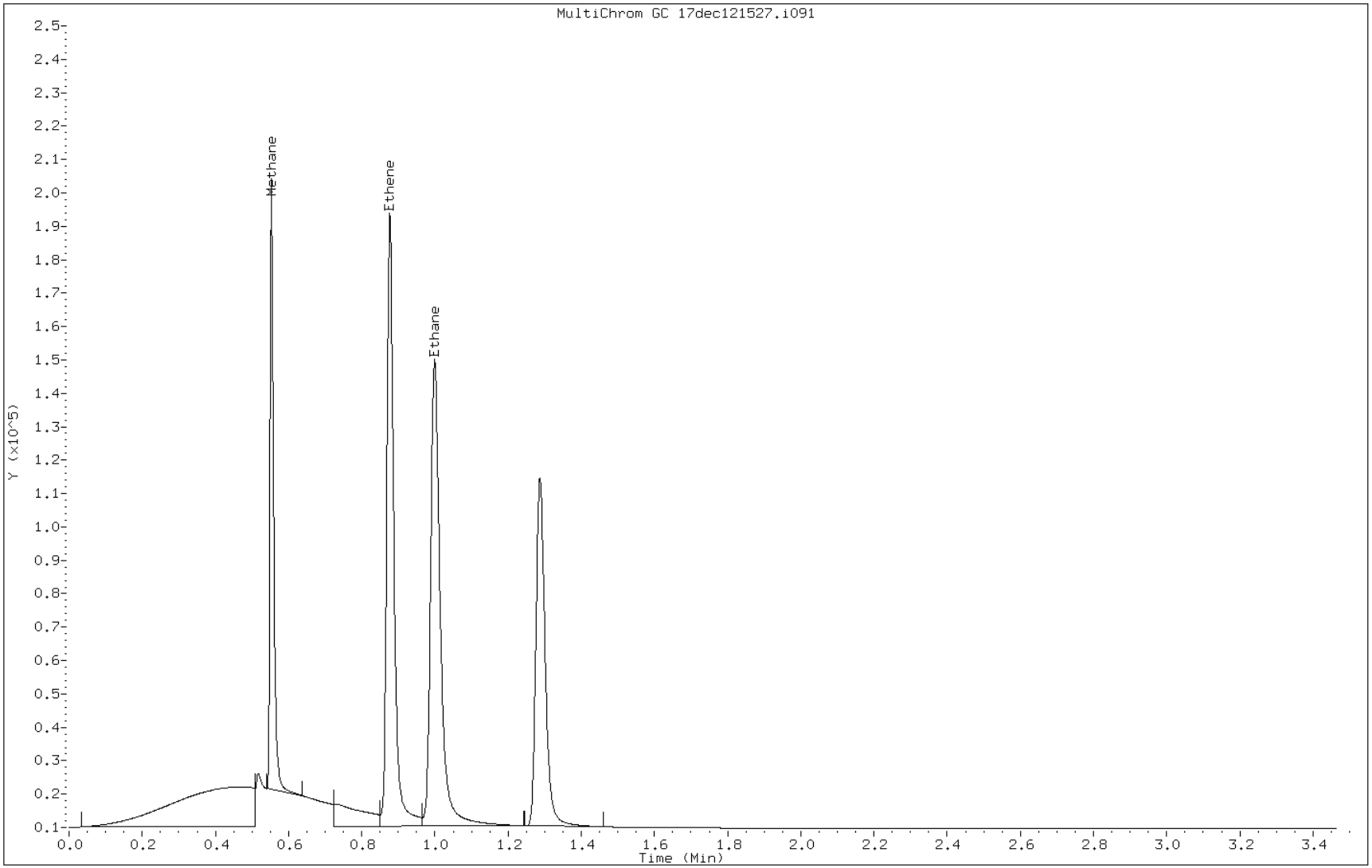
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.553	0.557	-0.004	127957	69.4772	69(M)
2 Ethene	0.877	0.884	-0.007	251304	133.419	130
3 Ethane	0.999	1.006	-0.007	262453	138.666	140

QC Flag Legend

M - Compound response manually integrated.

Data File:	17dec121527-r091.d	Date:	17-DEC-2012 16:33
Client ID:	VLF-MW-7	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53164-A-3 MS,1		
Lab Sample ID:	500-53164-3 MS		



Manual Integration Report

Data File: 17dec121527-r091.d
Lab Sample ID: 500-53164-3 MS
Inj. Date and Time: 17-DEC-2012 16:33
Instrument ID: 2866_1.i
Client ID: VLF-MW-7
Compound: 1 Methane
CAS #: 74-82-8
Report Date: 12/18/2012

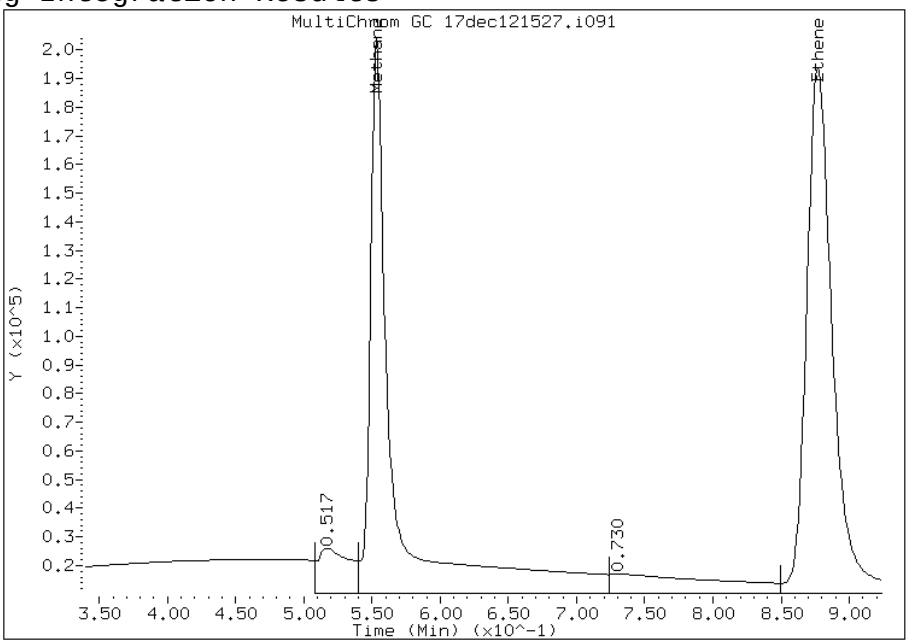
Processing Integration Results

RT: 0.55

Response: 227906

Amount: 123.75

Conc: 120.00



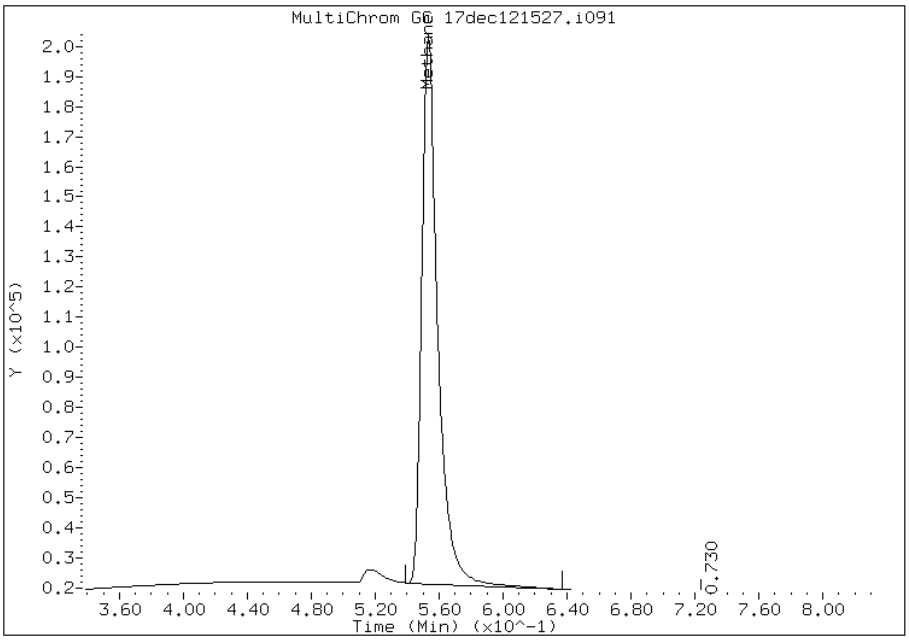
Manual Integration Results

RT: 0.55

Response: 127957

Amount: 69.48

Conc: 69.00



File Uploaded By: sheldont
Manual Integration Reason: Baseline event

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Client Sample ID: VLF-MW-7 MSD Lab Sample ID: 500-53164-3 MSD

Matrix: Water Lab File ID: 17dec121527-r101.d

Analysis Method: RSK-175 Date Collected: 12/11/2012 11:30

Sample wt/vol: 18(mL) Date Analyzed: 12/17/2012 16:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RT-U-Plot ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 49681 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	63.5		2.0	0.45
74-84-0	Ethane	126		4.0	0.81
74-85-1	Ethylene	121		3.0	0.73

TestAmerica Burlington

Lab Sample Id: 500-53164-3 MSD
Client Smp ID: VLF-MW-7
Inj Date : 17-DEC-2012 16:38
Operator : TFS Inst ID: 2866_1.i
Smp Info : 500-53164-B-3 MSD,1
Misc Info : 500-53164-B-3 MSD
Comment :
Method : /var/chem/2866_1.i/100912_1/17DEC120932.b/RSK175_2007.m
Meth Date : 18-Dec-2012 09:30 sheldont Quant Type: ESTD
Cal Date : 09-OCT-2012 13:51 Cal File: 09oct121308-r031.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: MeEtaEtewo.sub
Target Version: 3.50
Processing Host: chemsvr5

Concentration Formula: Amt * DF * 1 * CpndVariable

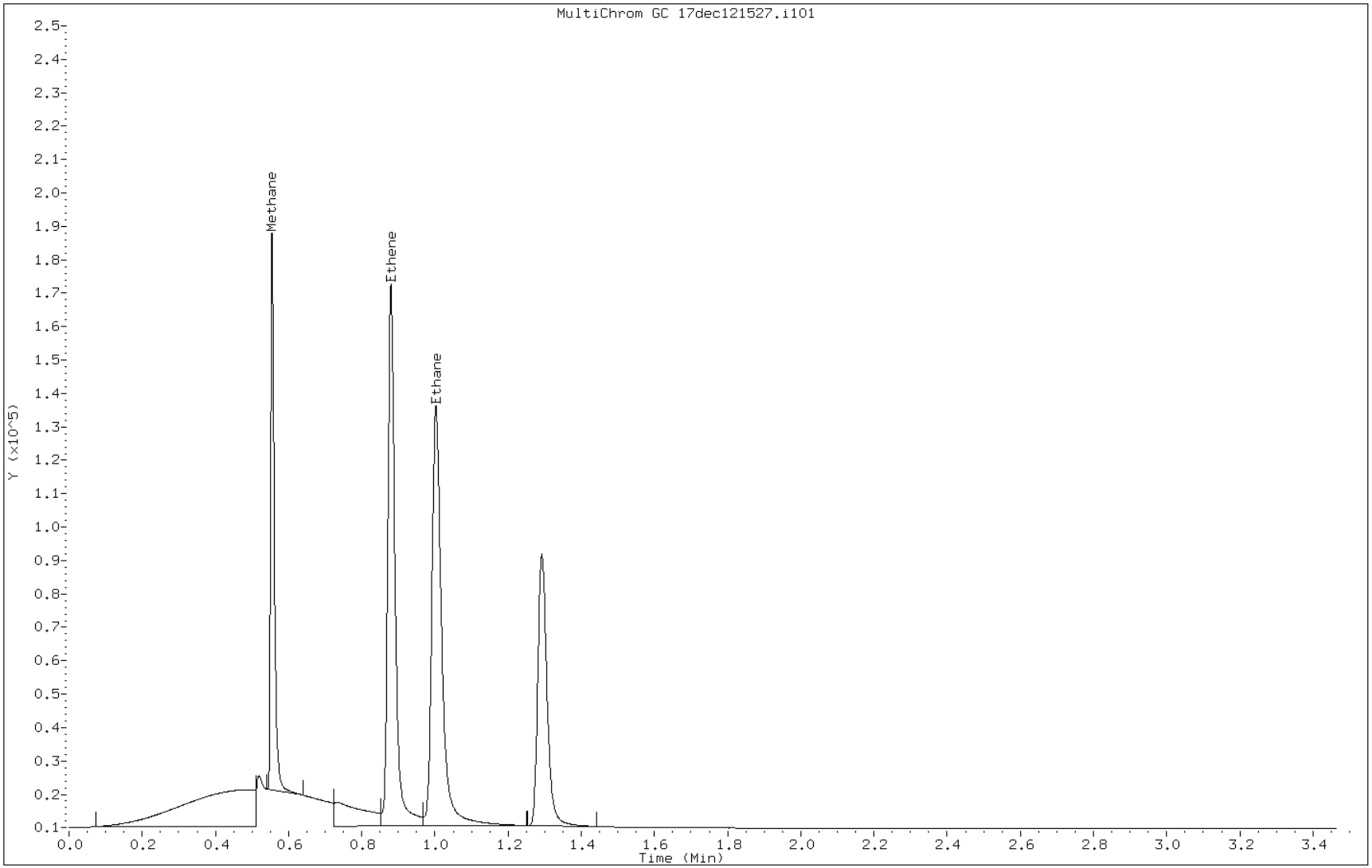
Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.556	0.557	-0.001	116958	63.5048	64(M)
2 Ethene	0.880	0.884	-0.004	227516	120.789	120
3 Ethane	1.003	1.006	-0.003	239185	126.373	130

QC Flag Legend

M - Compound response manually integrated.

Data File:	17dec121527-r101.d	Date:	17-DEC-2012 16:38
Client ID:	VLF-MW-7	Instrument:	2866_1.i
Operator:	TFS	Inj Vol:	0.0
Column Type:	Hydrogen	Diameter:	0.32
Stationary Phase:	RTUPLOT		
Sample Info:	500-53164-B-3 MSD,1		
Lab Sample ID:	500-53164-3 MSD		



Manual Integration Report

Data File: 17dec121527-r101.d
Lab Sample ID: 500-53164-3 MSD
Inj. Date and Time: 17-DEC-2012 16:38
Instrument ID: 2866_1.i
Client ID: VLF-MW-7
Compound: 1 Methane
CAS #: 74-82-8
Report Date: 12/18/2012

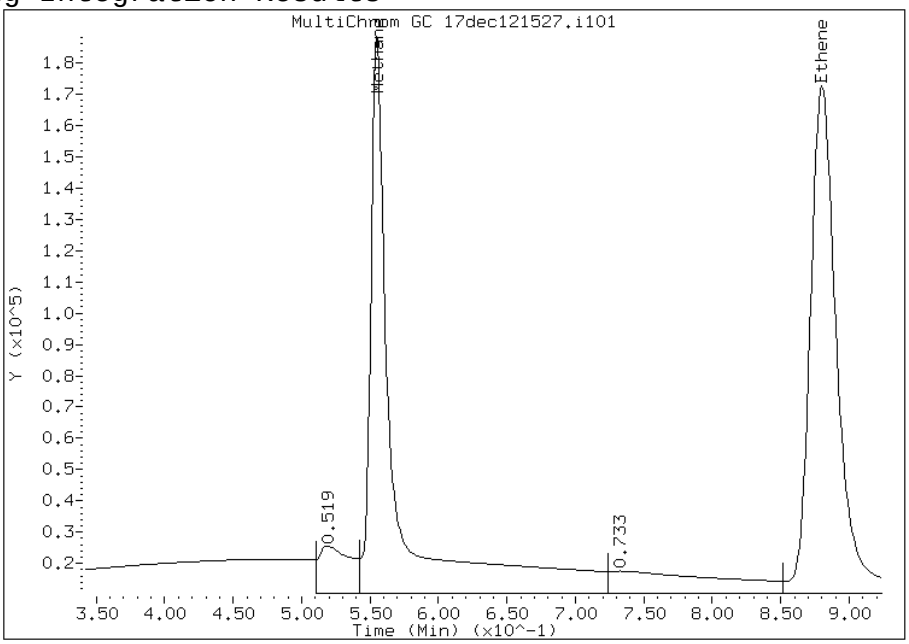
RT: 0.56

Processing Integration Results

Response: 216963

Amount: 117.81

Conc: 120.00



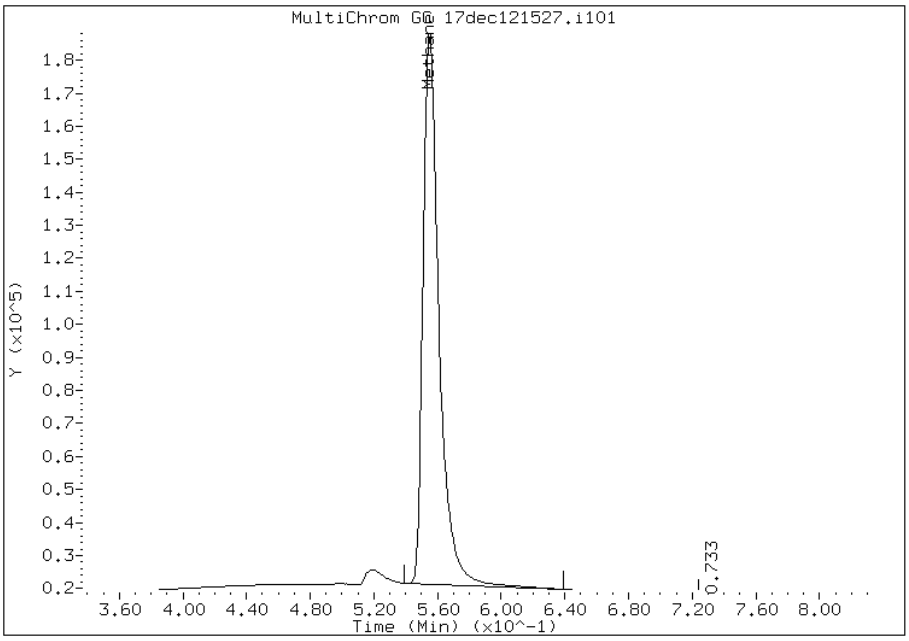
Manual Integration Results

RT: 0.56

Response: 116958

Amount: 63.50

Conc: 64.00



File Uploaded By: sheldont
Manual Integration Reason: Baseline event

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Instrument ID: 2866.i Start Date: 10/09/2012 13:42

Analysis Batch Number: 46202 End Date: 10/09/2012 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 200-46202/1		10/09/2012 13:42	1	09oct121308-r01 1.d	RT-U-Plot 0.53(mm)
IC 200-46202/2		10/09/2012 13:46	1	09oct121308-r02 1.d	RT-U-Plot 0.53(mm)
ICRT 200-46202/3		10/09/2012 13:51	1	09oct121308-r03 1.d	RT-U-Plot 0.53(mm)
IC 200-46202/4		10/09/2012 13:57	1	09oct121308-r04 1.d	RT-U-Plot 0.53(mm)
IC 200-46202/5		10/09/2012 14:02	1	09oct121308-r05 1.d	RT-U-Plot 0.53(mm)
ICV 200-46202/6		10/09/2012 14:07	1	09oct121308-r06 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 14:13	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 15:20	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:19	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:24	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:29	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:34	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:39	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:44	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:50	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 16:55	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:00	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:06	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:10	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:15	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:21	1		RT-U-Plot 0.53(mm)
ZZZZZ		10/09/2012 17:26	1		RT-U-Plot 0.53(mm)
CCVC 200-46202/23		10/09/2012 17:34	1		RT-U-Plot 0.53(mm)

RSK-175

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Instrument ID: 2866.i Start Date: 12/17/2012 09:54

Analysis Batch Number: 49681 End Date: 12/18/2012 09:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-49681/1		12/17/2012 09:54	1	17dec120932-r01 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 09:58	1		RT-U-Plot 0.53(mm)
MB 200-49681/3		12/17/2012 10:03	1	17dec120932-r03 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 10:46	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 10:50	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 10:55	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:01	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:06	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:11	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:17	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:22	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:26	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:32	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:37	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:42	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:48	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:53	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 11:58	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:03	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:08	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:13	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:19	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 12:24	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:34	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:39	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:44	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:50	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:54	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 13:59	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:05	10		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:10	10		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:15	10		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:21	20		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 14:26	10		RT-U-Plot 0.53(mm)
LCS 200-49681/35		12/17/2012 14:48	1	17dec121442-r01 1.d	RT-U-Plot 0.53(mm)
MB 200-49681/36		12/17/2012 15:03	1	17dec121442-r02 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 15:47	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 15:52	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 15:56	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:07	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:12	1		RT-U-Plot 0.53(mm)
500-53164-1	VLF-MW-6	12/17/2012 16:17	1	17dec121527-r06 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:23	1		RT-U-Plot 0.53(mm)

RSK-175

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 500-53164-1

SDG No.:

Instrument ID: 2866.i Start Date: 12/17/2012 09:54

Analysis Batch Number: 49681 End Date: 12/18/2012 09:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
500-53164-3	VLF-MW-7	12/17/2012 16:28	1	17dec121527-r08 1.d	RT-U-Plot 0.53(mm)
500-53164-3 MS	VLF-MW-7 MS	12/17/2012 16:33	1	17dec121527-r09 1.d	RT-U-Plot 0.53(mm)
500-53164-3 MSD	VLF-MW-7 MSD	12/17/2012 16:38	1	17dec121527-r10 1.d	RT-U-Plot 0.53(mm)
500-53164-4	VLF-MW-5	12/17/2012 16:43	1	17dec121527-r11 1.d	RT-U-Plot 0.53(mm)
500-53164-5	VLF-MW-2	12/17/2012 16:48	1	17dec121527-r12 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:54	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 16:59	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:04	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:09	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:14	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:19	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:25	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:30	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:35	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/17/2012 17:41	1		RT-U-Plot 0.53(mm)
ZZZZZ		12/18/2012 09:04	10		RT-U-Plot 0.53(mm)
500-53164-2	VLF-MW-6A	12/18/2012 09:09	1	18dec120842-r02 1.d	RT-U-Plot 0.53(mm)
ZZZZZ		12/18/2012 09:14	5		RT-U-Plot 0.53(mm)
CCVC 200-49681/62		12/18/2012 09:20	1	18dec120842-r04 1.d	RT-U-Plot 0.53(mm)

RSK-175

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG No.:

Project: Vulcan Louisville Fansteel

Client Sample ID	Lab Sample ID
VLF-MW-6	500-53164-1
VLF-MW-6A	500-53164-2
VLF-MW-7	500-53164-3
VLF-MW-5	500-53164-4
VLF-MW-2	500-53164-5

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VLF-MW-6
Lab Sample ID: 500-53164-1
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 10:11
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0048	0.010	0.0024	mg/L	J		1	6010B
7440-39-3	Barium	0.076	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.00078	0.0020	0.00054	mg/L	J		1	6010B
7440-47-3	Chromium	0.0014	0.010	0.00096	mg/L	J		1	6010B
7439-92-1	Lead	0.0016	0.0050	0.0016	mg/L	U		1	6010B
7782-49-2	Selenium	0.0047	0.010	0.0027	mg/L	J		1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.071	0.20	0.071	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VLF-MW-6A
Lab Sample ID: 500-53164-2
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 10:11
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0061	0.010	0.0024	mg/L	J		1	6010B
7440-39-3	Barium	0.071	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.00054	0.0020	0.00054	mg/L	U		1	6010B
7440-47-3	Chromium	0.00096	0.010	0.00096	mg/L	U		1	6010B
7439-92-1	Lead	0.0016	0.0050	0.0016	mg/L	U		1	6010B
7782-49-2	Selenium	0.0027	0.010	0.0027	mg/L	U		1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.071	0.20	0.071	ug/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VLF-MW-7
Lab Sample ID: 500-53164-3
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 11:30
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0024	0.010	0.0024	mg/L	U		1	6010B
7440-39-3	Barium	0.056	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.00080	0.0020	0.00054	mg/L	J		1	6010B
7440-47-3	Chromium	0.00096	0.010	0.00096	mg/L	U		1	6010B
7439-92-1	Lead	0.0016	0.0050	0.0016	mg/L	U		1	6010B
7782-49-2	Selenium	0.0027	0.010	0.0027	mg/L	U		1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.071	0.20	0.071	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VLF-MW-5
Lab Sample ID: 500-53164-4
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 12:23
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0024	0.010	0.0024	mg/L	U		1	6010B
7440-39-3	Barium	0.11	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.0010	0.0020	0.00054	mg/L	J		1	6010B
7440-47-3	Chromium	0.0011	0.010	0.00096	mg/L	J		1	6010B
7439-92-1	Lead	0.0044	0.0050	0.0016	mg/L	J		1	6010B
7782-49-2	Selenium	0.0033	0.010	0.0027	mg/L	J		1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.071	0.20	0.071	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: VLF-MW-2
Lab Sample ID: 500-53164-5
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 14:20
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0024	0.010	0.0024	mg/L	U		1	6010B
7440-39-3	Barium	0.039	0.010	0.00044	mg/L			1	6010B
7440-43-9	Cadmium	0.0011	0.0020	0.00054	mg/L	J		1	6010B
7440-47-3	Chromium	0.00096	0.010	0.00096	mg/L	U		1	6010B
7439-92-1	Lead	0.012	0.0050	0.0016	mg/L			1	6010B
7782-49-2	Selenium	0.0027	0.010	0.0027	mg/L	U		1	6010B
7440-22-4	Silver	0.0011	0.0050	0.0011	mg/L	U		1	6010B
7439-97-6	Mercury	0.10	0.20	0.071	ug/L	J		1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

ICV Source: M12LICVIC_00001 Concentration Units: mg/L

CCV Source: M12KCCVIC_00002

Analyte	ICV 500-172956/6 12/13/2012 13:38				CCV 500-172956/47 12/13/2012 16:24				CCV 500-172956/59 12/13/2012 17:15			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.395		0.400	99	0.480		0.500	96	0.479		0.500	96
Barium	0.394		0.400	99	0.479		0.500	96	0.477		0.500	95
Cadmium	0.389		0.400	97	0.476		0.500	95	0.475		0.500	95
Chromium	0.388		0.400	97	0.481		0.500	96	0.480		0.500	96
Lead	0.398		0.400	100	0.500		0.500	100	0.498		0.500	100
Selenium	0.384		0.400	96	0.466		0.500	93	0.462		0.500	92
Silver	0.389		0.400	97	0.484		0.500	97	0.482		0.500	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

ICV Source: M12LICVIC_00001 Concentration Units: mg/L

CCV Source: M12KCCVIC_00002

Analyte	CCV 500-172956/63 12/13/2012 17:31											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.483		0.500	97								
Barium	0.480		0.500	96								
Cadmium	0.474		0.500	95								
Chromium	0.478		0.500	96								
Lead	0.497		0.500	99								
Selenium	0.468		0.500	94								
Silver	0.479		0.500	96								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

ICV Source: M11FSTKHG_00001 Concentration Units: ug/L

CCV Source: M11FSTKHG_00001

Analyte	ICV 500-173014/7 12/14/2012 08:43				CCV 500-173014/31 12/14/2012 09:31				CCV 500-173014/43 12/14/2012 09:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	1.92		2.00	96	1.03		1.00	103	1.09		1.00	109

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

ICV Source: M11FSTKHG_00001 Concentration Units: ug/L

CCV Source: M11FSTKHG_00001

Analyte	CCV 500-173014/55 12/14/2012 10:18											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	1.02		1.00	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Method: 6010B Instrument ID: ICP6

Lab Sample ID: CRI 500-172956/8 Concentration Units: mg/L

CRQL Check Standard Source: M12LCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0181		90	50-150
Barium	0.0200	0.0191		96	50-150
Cadmium	0.00400	0.00384		96	50-150
Chromium	0.0200	0.0192		96	50-150
Lead	0.0100	0.00913		91	50-150
Selenium	0.0200	0.0191		95	50-150
Silver	0.0100	0.0100		100	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Method: 7470A Instrument ID: HG6

Lab Sample ID: CRA 500-173014/9 Concentration Units: ug/L

CRQL Check Standard Source: M12ASTKHG_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.256		128	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 500-172956/7 12/13/2012 13:42		CCB 500-172956/48 12/13/2012 16:28		CCB 500-172956/60 12/13/2012 17:19		CCB 500-172956/64 12/13/2012 17:35	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Barium	0.010	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Cadmium	0.0020	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Chromium	0.010	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Lead	0.0050	0.0025	U	0.0025	U	0.0025	U	0.0025	U
Selenium	0.010	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Silver	0.0050	0.0025	U	0.0025	U	0.0025	U	0.0025	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 500-173014/8 12/14/2012 08:45		CCB 500-173014/32 12/14/2012 09:33		CCB 500-173014/44 12/14/2012 09:56		CCB 500-173014/56 12/14/2012 10:20	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.071	U	0.071	U	0.071	U	0.071	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 500-172801/1-A

Instrument Code: ICP6 Batch No.: 172956

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.0024	U		6010B
7440-39-3	Barium	0.00044	U		6010B
7440-43-9	Cadmium	0.00054	U		6010B
7440-47-3	Chromium	0.00096	U		6010B
7439-92-1	Lead	0.0016	U		6010B
7782-49-2	Selenium	0.0027	U		6010B
7440-22-4	Silver	0.0011	U		6010B

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 500-172866/7-A

Instrument Code: HG6 Batch No.: 173014

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.071	U		7470A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: ICSA 500-172956/9 Instrument ID: ICP6

Lab File ID: P6121312A.asc ICS Source: M12LISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.0067**	
Barium		**-0.0003**	
Cadmium		**-0.0003**	
Chromium		**0.0025**	
Lead		**0.0057**	
Selenium		**-0.0021**	
Silver		**0.0000**	
Aluminum	*500*	*499*	*100*
Antimony		*0.0012*	
Beryllium		*0.0001*	
Bismuth		*-0.0120*	
Boron		*-0.0001*	
Calcium	*500*	*466*	*93*
Cobalt		*-0.0024*	
Copper		*0.0033*	
Iron	*200*	*188*	*94*
Magnesium	*500*	*504*	*101*
Manganese		*0.0000*	
Molybdenum		*-0.0002*	
Nickel		*-0.0005*	
Potassium		*-0.0118*	
Silicon		*-0.0016*	
Sodium		*0.0239*	
Strontium		*0.0021*	
Thallium		*-0.0062*	
Tin		*0.0109*	
Titanium		*0.0031*	
Vanadium		*0.0022*	
Zinc		*-0.0063*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Lab Sample ID: ICSAB 500-172956/10 Instrument ID: ICP6

Lab File ID: P6121312A.asc ICS Source: M12LISBIC_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.106**	**106**
Barium	**0.500**	**0.482**	**96**
Cadmium	**1.00**	**0.981**	**98**
Chromium	**0.500**	**0.449**	**90**
Lead	**0.0500**	**0.0584**	**117**
Selenium	**0.0500**	**0.0424**	**85**
Silver	**0.200**	**0.210**	**105**
Aluminum	*500*	*493*	*99*
Antimony	*0.600*	*0.580*	*97*
Beryllium	*0.500*	*0.497*	*99*
Bismuth		*-0.0119*	
Boron		*-0.0007*	
Calcium	*500*	*462*	*92*
Cobalt	*0.500*	*0.503*	*101*
Copper	*0.500*	*0.520*	*104*
Iron	*200*	*185*	*93*
Magnesium	*500*	*499*	*100*
Manganese	*0.500*	*0.455*	*91*
Molybdenum		*-0.0001*	
Nickel	*1.00*	*0.977*	*98*
Potassium		*-0.0246*	
Silicon		*-0.0053*	
Sodium		*0.0302*	
Strontium		*0.0021*	
Thallium	*0.100*	*0.0866*	*87*
Tin		*0.0114*	
Titanium		*0.0042*	
Vanadium	*0.500*	*0.471*	*94*
Zinc	*1.00*	*0.976*	*98*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: VLF-MW-7 MS
Lab ID: 500-53164-3 MS
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	0.0945		0.0024	U	0.100	95	75-125		6010B
Barium	1.95		0.056		2.00	95	75-125		6010B
Cadmium	0.0471		0.00080	J	0.0500	93	75-125		6010B
Chromium	0.185		0.00096	U	0.200	93	75-125		6010B
Lead	0.0968		0.0016	U	0.100	97	75-125		6010B
Selenium	0.0914		0.0027	U	0.100	91	75-125		6010B
Silver	0.0473		0.0011	U	0.0500	95	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: VLF-MW-7 MS

Lab ID: 500-53164-3 MS

Lab Name: TestAmerica Chicago

Job No.: 500-53164-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.804		0.071	U	1.00	80	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: VLF-MW-7 MSD

Lab ID: 500-53164-3 MSD

Lab Name: TestAmerica Chicago

Job No.: 500-53164-1

SDG No.:

Matrix: Water

Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	0.100		0.100	100	75-125	6	20		6010B
Barium	1.99		2.00	97	75-125	2	20		6010B
Cadmium	0.0482		0.0500	95	75-125	2	20		6010B
Chromium	0.187		0.200	93	75-125	1	20		6010B
Lead	0.102		0.100	102	75-125	5	20		6010B
Selenium	0.0917		0.100	92	75-125	0	20		6010B
Silver	0.0479		0.0500	96	75-125	1	20		6010B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: VLF-MW-7 MSD

Lab ID: 500-53164-3 MSD

Lab Name: TestAmerica Chicago

Job No.: 500-53164-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.748		1.00	75	75-125	7	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

6-IN
DUPLICATES
METALS

Client ID: VLF-MW-7 DU

Lab ID: 500-53164-3 DU

Lab Name: TestAmerica Chicago

Job No.: 500-53164-1

SDG No.:

% Solids for Sample:

% Solids for Duplicate:

Matrix: Water

Concentration Units: mg/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	0.010	0.0024	U	0.0024	U	NC		6010B
Barium	0.010	0.056		0.0547		2		6010B
Cadmium	0.0020	0.00080	J	0.000651	J	21		6010B
Chromium	0.010	0.00096	U	0.00096	U	NC		6010B
Lead	0.0050	0.0016	U	0.0016	U	NC		6010B
Selenium	0.010	0.0027	U	0.0027	U	NC		6010B
Silver	0.0050	0.0011	U	0.0011	U	NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: VLF-MW-7 DU

Lab ID: 500-53164-3 DU

Lab Name: TestAmerica Chicago

Job No.: 500-53164-1

SDG No.:

% Solids for Sample:

% Solids for Duplicate:

Matrix: Water

Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.20	0.071	U	0.071	U	NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-172801/2-A

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

Sample Matrix: Water LCS Source: M12JSPKIC_00002

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	0.100	0.0909		91	80	120		6010B
Barium	2.00	1.93		96	80	120		6010B
Cadmium	0.0500	0.0456		91	80	120		6010B
Chromium	0.200	0.187		93	80	120		6010B
Lead	0.100	0.0963		96	80	120		6010B
Selenium	0.100	0.0855		86	80	120		6010B
Silver	0.0500	0.0456		91	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-172866/8-A

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

Sample Matrix: Water LCS Source: M11FSTKHG_00001

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.00	2.08		104	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 500-53164-3

SDG No:

Lab Name: TestAmerica Chicago Job No: 500-53164-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	0.0024	U	0.012	U	NC		6010B
Barium	0.056		0.0548		2.0		6010B
Cadmium	0.00080	J	0.0027	U	NC		6010B
Chromium	0.00096	U	0.0048	U	NC		6010B
Lead	0.0016	U	0.0079	U	NC		6010B
Selenium	0.0027	U	0.013	U	NC		6010B
Silver	0.0011	U	0.0055	U	NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010B MDL Date: 02/20/2012 13:03

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic		0.01	0.00236
Barium		0.01	0.00044
Cadmium		0.002	0.00054
Chromium		0.01	0.00096
Lead		0.005	0.00158
Selenium		0.01	0.00266
Silver		0.005	0.0011

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010B XMDL Date: 05/25/2006 09:07

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005
Barium		0.01	0.005
Cadmium		0.002	0.001
Chromium		0.01	0.005
Lead		0.005	0.0025
Selenium		0.01	0.005
Silver		0.005	0.0025

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: HG6

Method: 7470A MDL Date: 08/31/2012 10:08

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.071

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: HG6

Method: 7470A XMDL Date: 08/31/2012 10:08

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.071

ICP6
10/29/12

500-53164-1

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	1	Fe	-0.000001	0.000000	No
Al 308.215 {109}	☒	2	Mo	0.007252	0.000000	No
			V	0.225109	0.000000	No
As 189.042 {478}	☒	4	Mo	-0.000257	0.000000	No
			Cr	-0.000899	0.000000	No
			Al	-0.000018	0.000000	No
			Fe	-0.000019	0.000000	No
B 208.959 {461}	☒	1	Mo	0.033439	0.000000	No
Ba 455.403 { 74}	☒	None				
Be 234.861 {143}	☒	1	Fe	0.000007	0.000000	No
Bi 223.061 {451}	☒	2	Fe	0.000043	0.000000	No
			Ti	-0.007347	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 228.802 {447}	☒	3	As	0.004283	0.000000	No
			Fe	0.000001	0.000000	No
			Ba	-0.000232	0.000000	No
Co 228.616 {447}	☒	4	Ti	0.002231	0.000000	No
			Fe	0.000011	0.000000	No
			Cr	-0.000258	0.000000	No
			Ba	-0.000350	0.000000	No
Cr 267.716 {126}	☒	None				
Cu 324.754 {104}	☒	None				
Fe 271.441 {124}	☒	2	Co	0.088693	0.000000	No
			V	0.007569	0.000000	No
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	3	Mo	-0.006776	0.000000	No
			Mn	-0.003611	0.000000	No
			Fe	-0.000245	0.000000	No
Mn 257.610 {131}	☒	1	Fe	0.000019	0.000000	No
Mo 202.030 {467}	☒	2	Fe	-0.000015	0.000000	No
			Al	-0.000011	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {446}	☒	1	Fe	0.000036	0.000000	No
Pb 220.353 {453}	☒	5	Al	-0.000057	0.000000	No
			Fe	0.000047	0.000000	No
			Si	0.000095	0.000000	No
			Mo	-0.000892	0.000000	No
			Cu	0.001208	0.000000	No
Sb 206.833 {463}	☒	5	Fe	0.000013	0.000000	No
			Al	0.000010	0.000000	No
			Cr	0.015204	0.000000	No
			V	-0.001068	0.000000	No
			Ti	-0.002346	0.000000	No
Se 196.090 {472}	☒	2	Al	0.000002	0.000000	No
			Fe	-0.000006	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.014343	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 421.552 { 80}	☒	None				
Ti 334.941 {101}	☒	1	Ca	-0.000005	0.000000	No
Tl 190.856 {477}	☒	5	V	-0.006826	0.000000	No
			Al	-0.000002	0.000000	No
			Co	0.001123	0.000000	No
			Fe	0.000004	0.000000	No

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-53164-1

SDG No.:

Instrument ID: ICP6 Date: 11/19/2012 14:24

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		20	6010B
Barium		20	6010B
Cadmium		10	6010B
Chromium		20	6010B
Lead		100	6010B
Selenium		20	6010B
Silver		10	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-53164-1

SDG No.:

Instrument ID: HG6 Date: 11/01/2010 11:39

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		5.0	7470A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-172801/1-A	12/12/2012 15:00	172801		50	50
LCS 500-172801/2-A	12/12/2012 15:00	172801		50	50
500-53164-1	12/12/2012 15:00	172801		50	50
500-53164-2	12/12/2012 15:00	172801		50	50
500-53164-3	12/12/2012 15:00	172801		50	50
500-53164-3 DU	12/12/2012 15:00	172801		50	50
500-53164-3 MS	12/12/2012 15:00	172801		50	50
500-53164-3 MSD	12/12/2012 15:00	172801		50	50
500-53164-4	12/12/2012 15:00	172801		50	50
500-53164-5	12/12/2012 15:00	172801		50	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-172866/7-A	12/13/2012 11:00	172866		25	25
LCS 500-172866/8-A	12/13/2012 11:00	172866		25	25
500-53164-1	12/13/2012 11:00	172866		25	25
500-53164-2	12/13/2012 11:00	172866		25	25
500-53164-3	12/13/2012 11:00	172866		25	25
500-53164-3 DU	12/13/2012 11:00	172866		25	25
500-53164-3 MS	12/13/2012 11:00	172866		25	25
500-53164-3 MSD	12/13/2012 11:00	172866		25	25
500-53164-4	12/13/2012 11:00	172866		25	25
500-53164-5	12/13/2012 11:00	172866		25	25

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: ICP6 Method: 6010B

Start Date: 12/13/2012 13:17 End Date: 12/13/2012 17:35

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			13:17																				
ZZZZZZ			13:21																				
ZZZZZZ			13:25																				
ZZZZZZ			13:29																				
ZZZZZZ			13:33																				
ICV 500-172956/6	1		13:38	X	X	X	X	X	X	X													
ICB 500-172956/7	1		13:42	X	X	X	X	X	X	X													
CRI 500-172956/8	1		13:45	X	X	X	X	X	X	X													
ICSA 500-172956/9	1		13:49	X	X	X	X	X	X	X													
ICSAB 500-172956/10	1		13:54	X	X	X	X	X	X	X													
CCV 500-172956/11			13:59																				
CCB 500-172956/12			14:03																				
ZZZZZZ			14:06																				
ZZZZZZ			14:10																				
ZZZZZZ			14:14																				
ZZZZZZ			14:19																				
ZZZZZZ			14:23																				
ZZZZZZ			14:27																				
ZZZZZZ			14:31																				
ZZZZZZ			14:35																				
ZZZZZZ			14:39																				
ZZZZZZ			14:43																				
CCV 500-172956/23			14:48																				
CCB 500-172956/24			14:52																				
ZZZZZZ			14:56																				
ZZZZZZ			15:01																				
ZZZZZZ			15:05																				
ZZZZZZ			15:09																				
ZZZZZZ			15:13																				
ZZZZZZ			15:17																				
ZZZZZZ			15:21																				
ZZZZZZ			15:25																				
ZZZZZZ			15:29																				
ZZZZZZ			15:33																				
CCV 500-172956/35			15:37																				
CCB 500-172956/36			15:41																				
ZZZZZZ			15:44																				
ZZZZZZ			15:48																				
ZZZZZZ			15:52																				
ZZZZZZ			15:56																				
ZZZZZZ			16:00																				
ZZZZZZ			16:04																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: ICP6 Method: 6010B

Start Date: 12/13/2012 13:17 End Date: 12/13/2012 17:35

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
ZZZZZZ			16:08																				
ZZZZZZ			16:12																				
ZZZZZZ			16:16																				
ZZZZZZ			16:20																				
CCV 500-172956/47	1		16:24	X	X	X	X	X	X	X													
CCB 500-172956/48	1		16:28	X	X	X	X	X	X	X													
ZZZZZZ			16:31																				
MB 500-172801/1-A	1	T	16:35	X	X	X	X	X	X	X													
LCS 500-172801/2-A	1	T	16:39	X	X	X	X	X	X	X													
500-53164-1	1	T	16:43	X	X	X	X	X	X	X													
500-53164-2	1	T	16:47	X	X	X	X	X	X	X													
500-53164-3	1	T	16:51	X	X	X	X	X	X	X													
500-53164-3 SD	5	T	16:56	X	X	X	X	X	X	X													
500-53164-3 DU	1	T	17:00	X	X	X	X	X	X	X													
500-53164-3 MS	1	T	17:05	X	X	X	X	X	X	X													
500-53164-3 MSD	1	T	17:10	X	X	X	X	X	X	X													
CCV 500-172956/59	1		17:15	X	X	X	X	X	X	X													
CCB 500-172956/60	1		17:19	X	X	X	X	X	X	X													
500-53164-4	1	T	17:23	X	X	X	X	X	X	X													
500-53164-5	1	T	17:27	X	X	X	X	X	X	X													
CCV 500-172956/63	1		17:31	X	X	X	X	X	X	X													
CCB 500-172956/64	1		17:35	X	X	X	X	X	X	X													

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: HG6 Method: 7470A

Start Date: 12/14/2012 08:30 End Date: 12/14/2012 11:29

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			08:30																				
ZZZZZZ			08:32																				
ZZZZZZ			08:34																				
ZZZZZZ			08:36																				
ZZZZZZ			08:38																				
ZZZZZZ			08:40																				
ICV 500-173014/7	1		08:43	X																			
ICB 500-173014/8	1		08:45	X																			
CRA 500-173014/9	1		08:48	X																			
ZZZZZZ			08:50																				
ZZZZZZ			08:52																				
ZZZZZZ			08:53																				
ZZZZZZ			08:56																				
ZZZZZZ			08:58																				
ZZZZZZ			09:00																				
ZZZZZZ			09:01																				
ZZZZZZ			09:03																				
ZZZZZZ			09:05																				
CCV 500-173014/19			09:08																				
CCB 500-173014/20			09:10																				
ZZZZZZ			09:12																				
ZZZZZZ			09:14																				
ZZZZZZ			09:16																				
ZZZZZZ			09:17																				
ZZZZZZ			09:19																				
ZZZZZZ			09:21																				
ZZZZZZ			09:24																				
ZZZZZZ			09:25																				
ZZZZZZ			09:27																				
ZZZZZZ			09:29																				
CCV 500-173014/31	1		09:31	X																			
CCB 500-173014/32	1		09:33	X																			
ZZZZZZ			09:35																				
ZZZZZZ			09:37																				
ZZZZZZ			09:39																				
ZZZZZZ			09:41																				
MB 500-172866/7-A	1	T	09:42	X																			
LCS 500-172866/8-A	1	T	09:44	X																			
ZZZZZZ			09:46																				
500-53164-1	1	T	09:49	X																			
500-53164-2	1	T	09:51	X																			
500-53164-3	1	T	09:52	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: HG6 Method: 7470A

Start Date: 12/14/2012 08:30 End Date: 12/14/2012 11:29

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCV 500-173014/43	1		09:54	X																			
CCB 500-173014/44	1		09:56	X																			
500-53164-3 DU	1	T	09:58	X																			
500-53164-3 MS	1	T	10:00	X																			
500-53164-3 MSD	1	T	10:02	X																			
500-53164-4	1	T	10:04	X																			
500-53164-5	1	T	10:07	X																			
ZZZZZZ			10:08																				
ZZZZZZ			10:10																				
ZZZZZZ			10:12																				
ZZZZZZ			10:14																				
ZZZZZZ			10:16																				
CCV 500-173014/55	1		10:18	X																			
CCB 500-173014/56	1		10:20	X																			
ZZZZZZ			10:22																				
ZZZZZZ			10:24																				
ZZZZZZ			10:26																				
ZZZZZZ			10:27																				
ZZZZZZ			10:29																				
ZZZZZZ			10:31																				
ZZZZZZ			10:33																				
ZZZZZZ			10:35																				
ZZZZZZ			10:37																				
ZZZZZZ			10:38																				
CCV 500-173014/67			10:40																				
CCB 500-173014/68			10:42																				
ZZZZZZ			10:44																				
ZZZZZZ			10:46																				
ZZZZZZ			10:48																				
ZZZZZZ			10:51																				
ZZZZZZ			10:53																				
ZZZZZZ			10:54																				
ZZZZZZ			10:56																				
ZZZZZZ			10:59																				
ZZZZZZ			11:01																				
ZZZZZZ			11:03																				
CCV 500-173014/79			11:04																				
CCB 500-173014/80			11:06																				
ZZZZZZ			11:09																				
ZZZZZZ			11:10																				
ZZZZZZ			11:12																				
ZZZZZZ			11:14																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: HG6 Method: 7470A

Start Date: 12/14/2012 08:30 End Date: 12/14/2012 11:29

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			11:16																				
ZZZZZZ			11:18																				
ZZZZZZ			11:20																				
ZZZZZZ			11:22																				
ZZZZZZ			11:23																				
ZZZZZZ			11:25																				
CCV 500-173014/91			11:27																				
CCB 500-173014/92			11:29																				

Prep Types

T = Total/NA

P612312 A Palmer 172956

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact
1	---	---	---	---	Cal	---	---	---
2	1	1	1	1	QC	S1		1
3	2	1	2	1	QC	S2		1
4	3	1	3	1	QC	ICV		1
5	4	1	4	1	QC	ICB		1
6	5	1	5	1	QC	CRI		1
7	6	1	6	1	QC	ICSA		1
8	7	1	7	1	QC	ICSAB		1
9	8	1	8	1	QC	CCV		1
10	9	1	9	1	QC	CCB		1
11	10	1	10	1	Unk	MB 500-172797/1-A		1
12	11	1	11	1	Unk	LCS 500-172797/2-		1
13	12	1	12	1	Unk	500-53121-A-1-A	Ba, Cr, Fe	1
14	13	1	1	2	Unk	500-53176-E-1-A	Cd, Cu, Fe, Ni, Pb, Zn	1
15	14	1	2	2	Unk	500-53176-E-1-A SD		1
16	15	1	3	2	Unk	500-53176-E-1-B D		1
17	16	1	4	2	Unk	500-53176-E-1-C M		1
18	17	1	5	2	Unk	MB 500-172799/1-A		1
19	18	1	6	2	Unk	LCS 500-172799/2-		1
20	19	1	7	2	Unk	720-46574-C-1-A	Sr	1
21	20	1	8	2	QC	CCV		1
22	21	1	9	2	QC	CCB		1
23	22	1	10	2	Unk	720-46574-C-2-A	Sr	1
24	23	1	11	2	Unk	500-53159-D-1-A	RCRA	1
25	24	1	12	2	Unk	500-53159-D-1-A S		1
26	25	1	1	3	Unk	500-53159-D-1-B D		1
27	26	1	2	3	Unk	500-53159-D-1-C M		1
28	27	1	3	3	Unk	500-53159-D-1-D M		1
29	28	1	4	3	Unk	500-53159-D-2-A		1
30	29	1	5	3	Unk	500-53159-D-3-A		1
31	30	1	6	3	Unk	500-53159-D-4-A		1
32	31	1	7	3	Unk	500-53159-D-5-A		1
33	32	1	8	3	QC	CCV		1
34	33	1	9	3	QC	CCB		1
35	34	1	10	3	Unk	500-53159-D-6-A		1
36	35	1	11	3	Unk	500-53159-D-7-A		1
37	36	1	12	3	Unk	500-53159-D-8-A		1
38	37	1	1	4	Unk	500-53159-D-9-A		1
39	38	1	2	4	Unk	500-53159-D-10-A		1
40	39	1	3	4	Unk	500-53159-D-11-A		1
41	40	1	4	4	Unk	500-53159-D-12-A		1
42	41	1	5	4	Unk	500-53159-D-13-A		1
43	42	1	6	4	Unk	500-53159-D-14-A		1
44	43	1	7	4	Unk	500-53159-D-15-A		1
45	44	1	8	4	QC	CCV		1
46	45	1	9	4	QC	CCB		1
47	46	1	10	4	Unk	500-53120-E-3-E	Ba, Cr, Cu, Ni, Pb, K, Zn	1
48	47	1	11	4	Unk	MB 500-172801/1-A		1
49	48	1	12	4	Unk	LCS 500-172801/2-		1
50	49	1	1	5	Unk	500-53164-J-1-A	RCRA	1
51	50	1	2	5	Unk	500-53164-J-2-A		1
52	51	1	3	5	Unk	500-53164-J-3-A		1
53	52	1	4	5	Unk	500-53164-J-3-A SD		1
54	53	1	5	5	Unk	500-53164-J-3-B DU		1
55	54	1	6	5	Unk	500-53164-J-3-C MS		1
56	55	1	7	5	Unk	500-53164-J-3-D MS		1
57	56	1	8	5	QC	CCV		1

7 29 56

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact
58	57	1	9	5	QC	CCB	RCRA	1
59	58	1	10	5	Unk	500-53164-J-4-A		1
60	59	1	11	5	Unk	500-53164-J-5-A		1
61	60	1	12	5	QC	CCV		1
62	61	2	1	1	QC	CCB		1

Sample Name: Blank Acquired: 12/13/2012 13:17:16 Type: Cal
Method: P6121312A Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00044	.00274	-.00049	.00214	.01023	-.00024	-.00207
Stddev	.00040	.00008	.00021	.00018	.00099	.00023	.00007
%RSD	90.514	3.0919	42.971	8.2453	9.6859	97.391	3.1429
#1	-.00072	.00280	-.00034	.00202	.01093	-.00040	-.00202
#2	-.00016	.00268	-.00064	.00227	.00952	-.00007	-.00211

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00921	.0013	-.00052	.00005	.01433	.00025	.00182
Stddev	.00036	.0004	.00011	.00006	.00033	.00010	.00038
%RSD	3.9075	27.75	22.164	119.61	2.2900	39.342	20.692
#1	.00947	.0016	-.00044	.00009	.01410	.00018	.00155
#2	.00896	.0011	-.00060	.00001	.01456	.00032	.00208

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00013	.00060	-.00038	.00839	-.00010	.00015	.00053
Stddev	.00042	.00004	.00015	.00170	.00011	.00008	.00001
%RSD	333.73	6.2474	39.352	20.223	106.90	54.658	2.6014
#1	.00043	.00057	-.00048	.00719	-.00002	.00009	.00054
#2	-.00017	.00063	-.00027	.00959	-.00017	.00020	.00052

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00014	.01028	.00005	.00087	.00069	-.00072	.00039
Stddev	.00012	.00020	.00040	.00016	.00010	.00012	.00001
%RSD	89.170	1.9752	805.93	18.272	14.052	16.722	3.4146
#1	.00005	.01014	.00033	.00076	.00062	-.00080	.00038
#2	.00022	.01042	-.00023	.00098	.00075	-.00063	.00040

Sample Name: Blank Acquired: 12/13/2012 13:17:16 Type: Cal
Method: P6121312A Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Units	Cts/S
Avg	.00585
Stddev	.00024
%RSD	4.0827
#1	.00602
#2	.00568

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3346.5	2889.6	14545.	5951.6
Stddev	84.6	111.0	203.	4.3
%RSD	2.5289	3.8417	1.3947	.07172
#1	3406.3	2968.1	14689.	5954.7
#2	3286.6	2811.1	14402.	5948.6

Sample Name: S1 Acquired: 12/13/2012 13:21:19 Type: Cal
Method: P6121312A Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.88996	.12663	.62402	5.1388	1.5732	.20731	2.912	1.3034
Stddev	.00662	.00058	.00264	.0311	.0026	.00060	.007	.0041
%RSD	.74430	.45591	.42349	.60455	.16756	.29016	.2286	.31354
#1	.88527	.12623	.62215	5.1168	1.5714	.20689	2.907	1.3006
#2	.89464	.12704	.62589	5.1608	1.5751	.20774	2.917	1.3063

Elem	Cr2677	Cu3247	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.42283	1.2235	1.0312	.71968	.50071	.23552	.16749	.09374
Stddev	.00149	.0121	.0016	.00411	.00197	.00054	.00066	.00077
%RSD	.35288	.98588	.15481	.57158	.39402	.22824	.39564	.82011
#1	.42178	1.2150	1.0301	.71677	.49932	.23514	.16702	.09320
#2	.42389	1.2321	1.0323	.72259	.50211	.23590	.16796	.09429

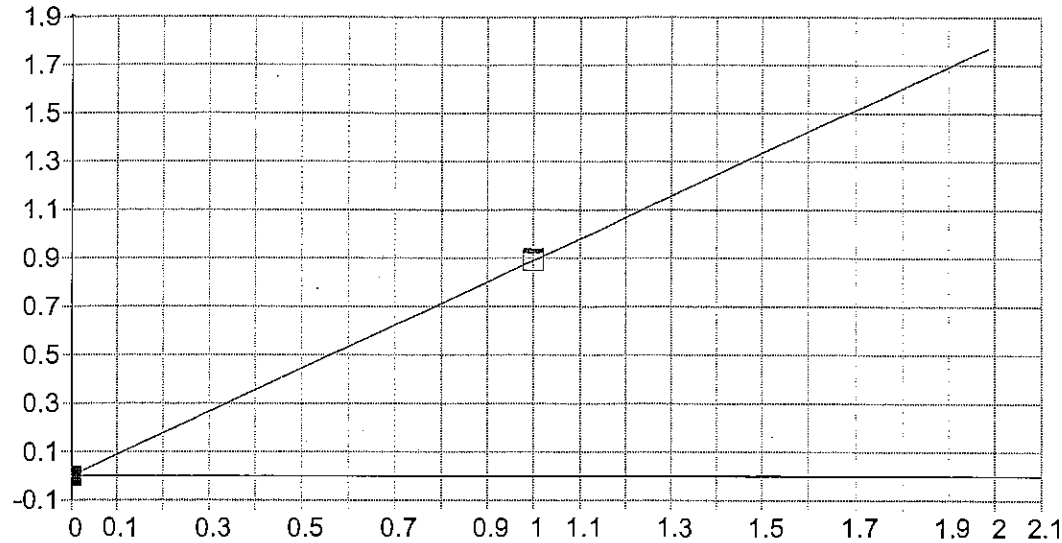
Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.26523	.21525	31.757	1.8417	.12623	.72478	.74567
Stddev	.00060	.00091	.234	.0148	.00106	.00435	.00157
%RSD	.22543	.42333	.73693	.80206	.84105	.60026	.21013
#1	.26481	.21460	31.592	1.8313	.12548	.72170	.74456
#2	.26566	.21589	31.923	1.8522	.12698	.72786	.74677

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3122.2	2609.5	13090.	6136.0
Stddev	8.8	6.4	64.	3.8
%RSD	.28117	.24625	.49100	.06184
#1	3128.5	2614.0	13135.	6138.7
#2	3116.0	2605.0	13044.	6133.3

Sample Name: S2 Acquired: 12/13/2012 13:25:17 Type: Cal
Method: P6121312A Mode: IR Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1485	18.989	.90156	5.1974	1.4277	26.938
Stddev	.0090	.108	.00355	.0068	.0063	.055
%RSD	.28537	.56990	.39415	.13010	.43973	.20407
#1	3.1421	18.913	.89904	5.1926	1.4233	26.899
#2	3.1548	19.066	.90407	5.2022	1.4322	26.977

Int. Std.	Y_3710
Units	Cts/S
Avg	5935.6
Stddev	23.8
%RSD	.40179
#1	5952.5
#2	5918.7

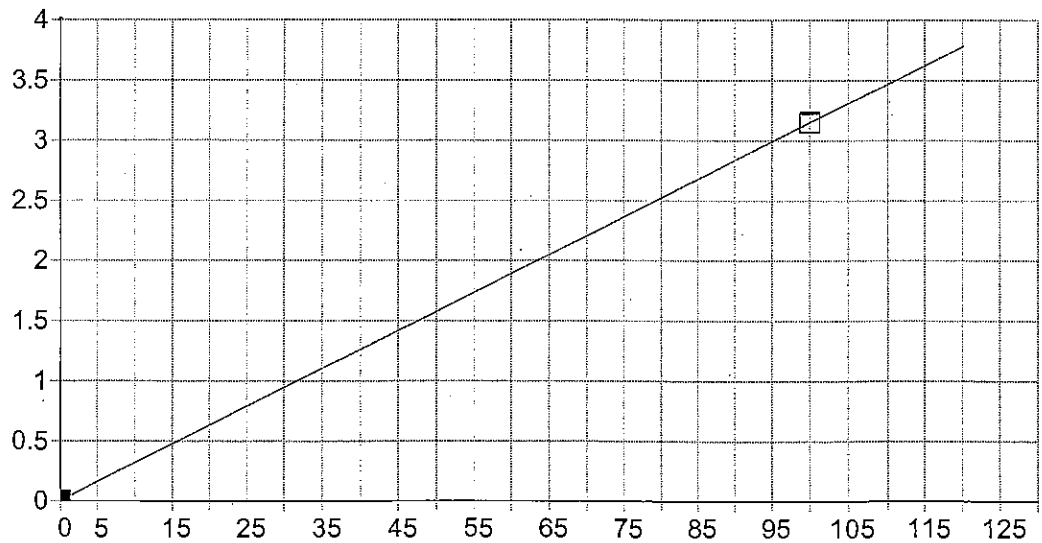


Ag 328.068 {103}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000440	Re-Slope:	1.000000
A1 (Gain):	0.890395	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000518		
Predicted MQL:	0.001728		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00044	.000	1
S1	1.0000	1.0000	.000	.000	.88996	.007	1

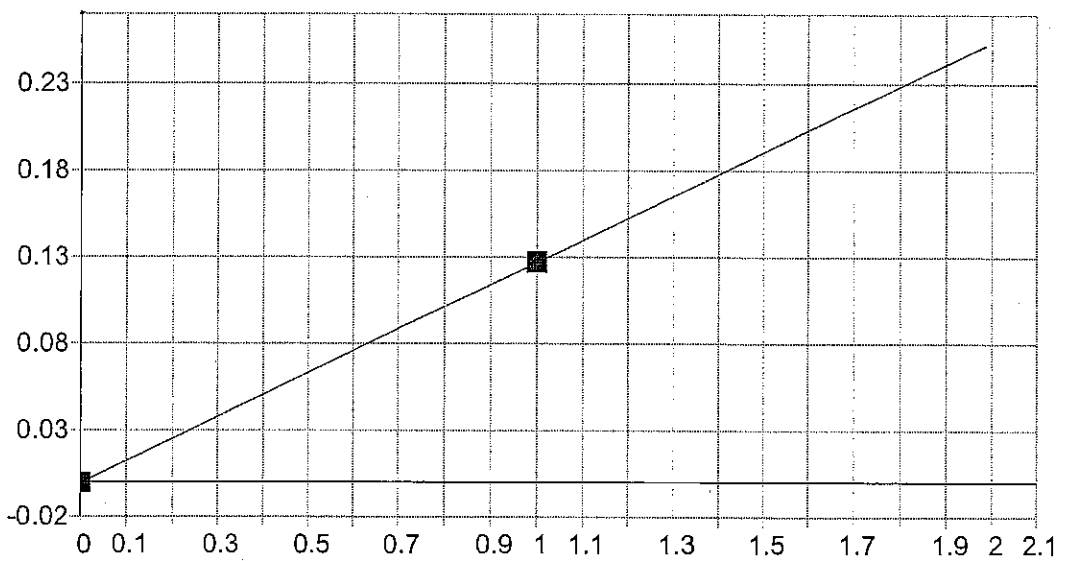


Al 308.215 {109}

Date of Fit:	12/13/2012 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002744	Re-Slope:	1.000000
A1 (Gain):	0.031457	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.018292		
Predicted MQL:	0.060972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00274	.000	1
S2	100.00	100.00	.000	.000	3.1485	.009	1

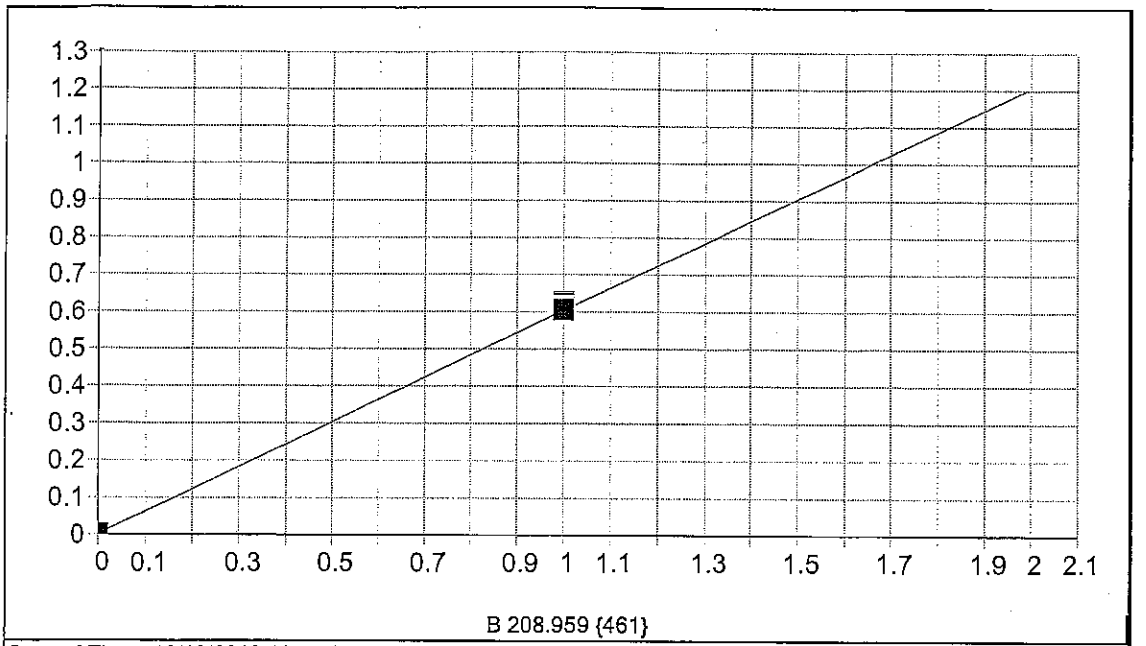


As 189.042 {478}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000488	Re-Slope:	1.000000
A1 (Gain):	0.127270	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002045		
Predicted MQL:	0.006818		

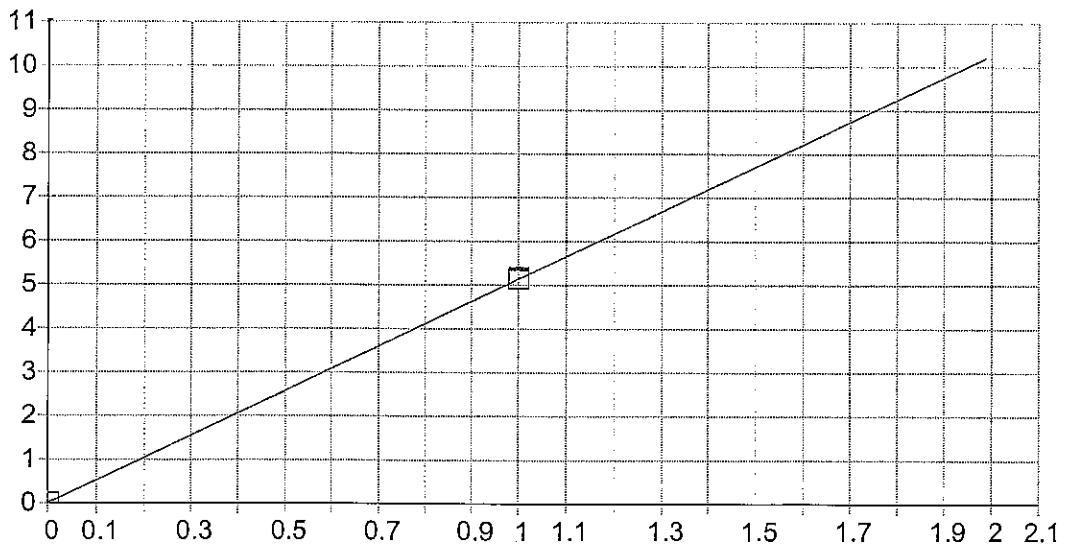
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00049	.000	1
S1	1.0000	1.0000	.000	.000	.12663	.001	1



Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002145	Re-Slope:	1.000000
A1 (Gain):	0.601755	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000419		
Predicted MQL:	0.001396		

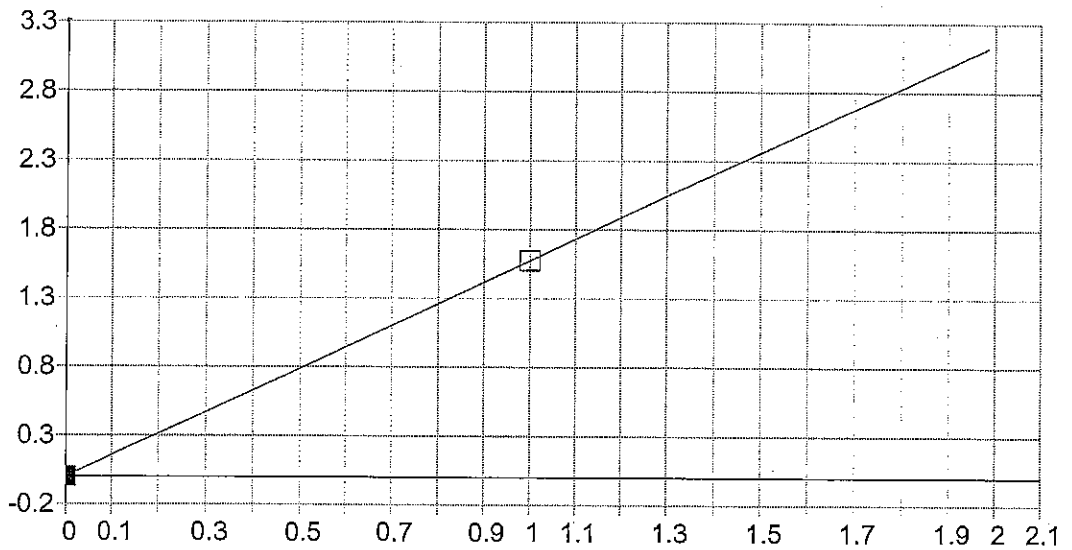
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00214	.000	1
S1	1.0000	1.0000	.000	.000	.62402	.003	1



Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010225	Re-Slope:	1.000000
A1 (Gain):	5.128563	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000190		
Predicted MQL:	0.000632		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01023	.001	1
S1	1.0000	1.0000	.000	.000	5.1388	.031	1

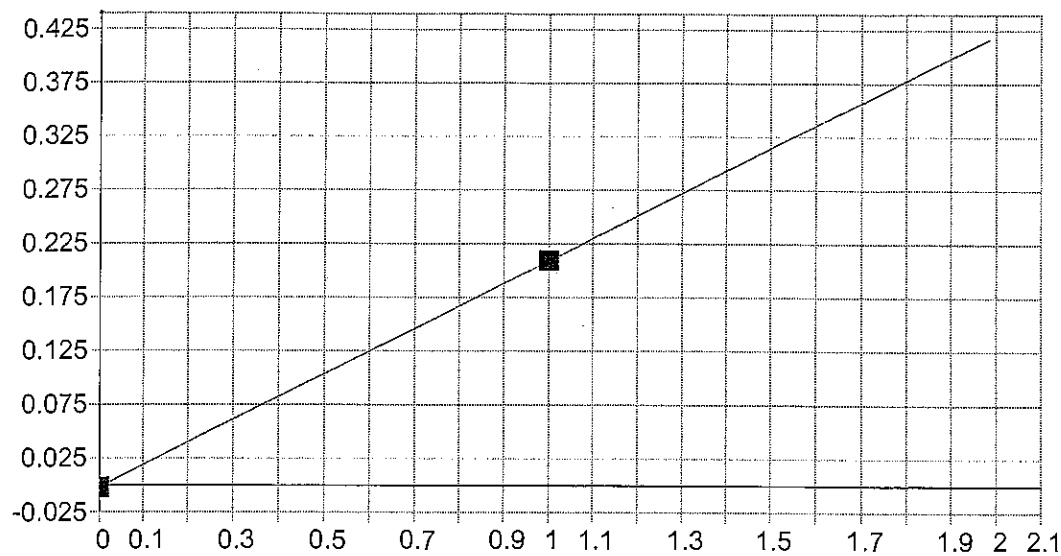


Be 234.861 {143}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000236	Re-Slope:	1.000000
A1 (Gain):	1.573469	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000217		
Predicted MQL:	0.000725		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00024	.000	1
S1	1.0000	1.0000	.000	.000	1.5732	.003	1

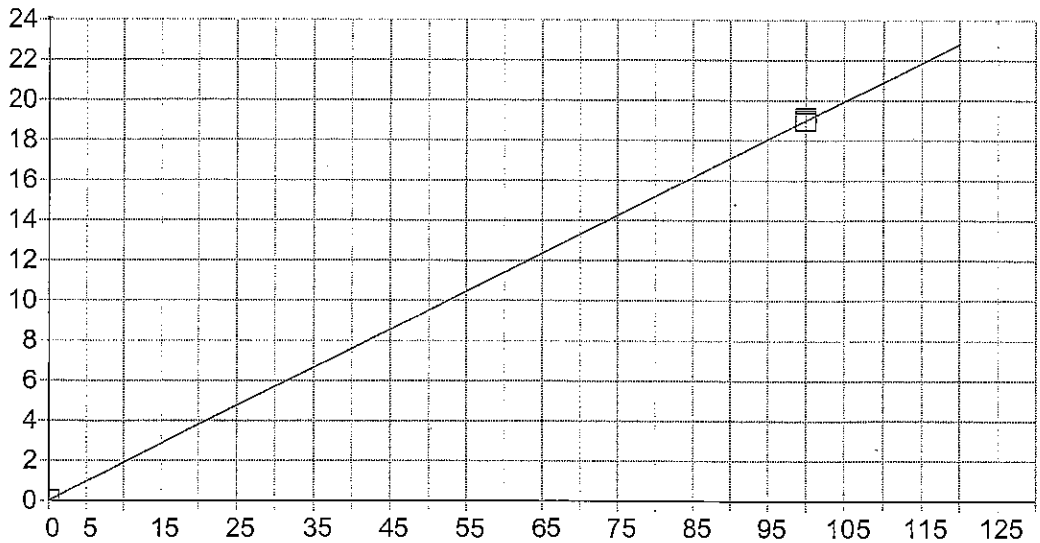


Bi 223.061 {451}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002069	Re-Slope:	1.000000
A1 (Gain):	0.210930	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001744		
Predicted MQL:	0.005814		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00207	.000	1
S1	1.0000	1.0000	.000	.000	.20731	.001	1

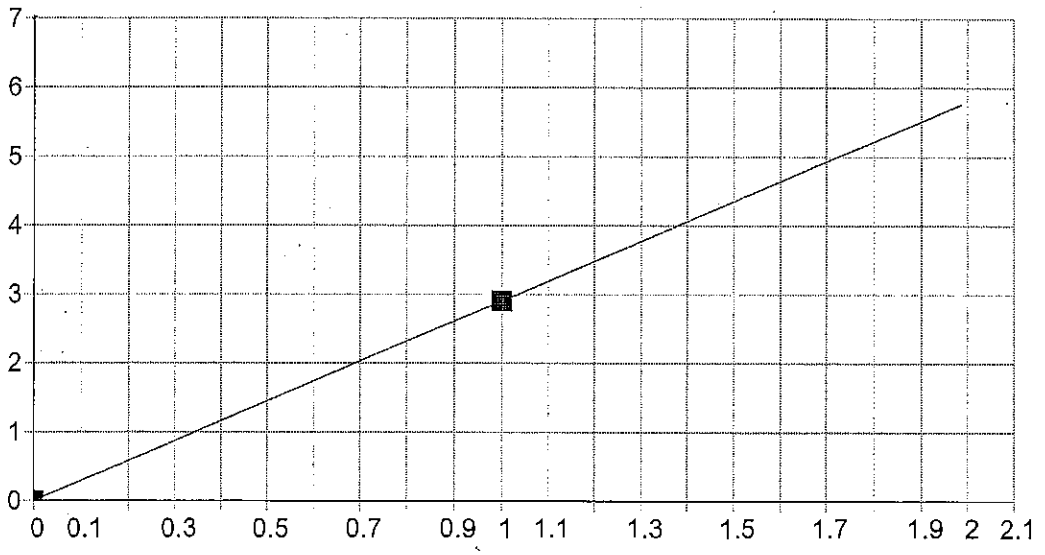


Ca 317.933 {106}

Date of Fit:	12/13/2012 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.009213	Re-Slope:	1.000000
A1 (Gain):	0.189803	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002746		
Predicted MQL:	0.009154		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00921	.000	1
S2	100.00	100.00	.000	.000	18.989	.108	1

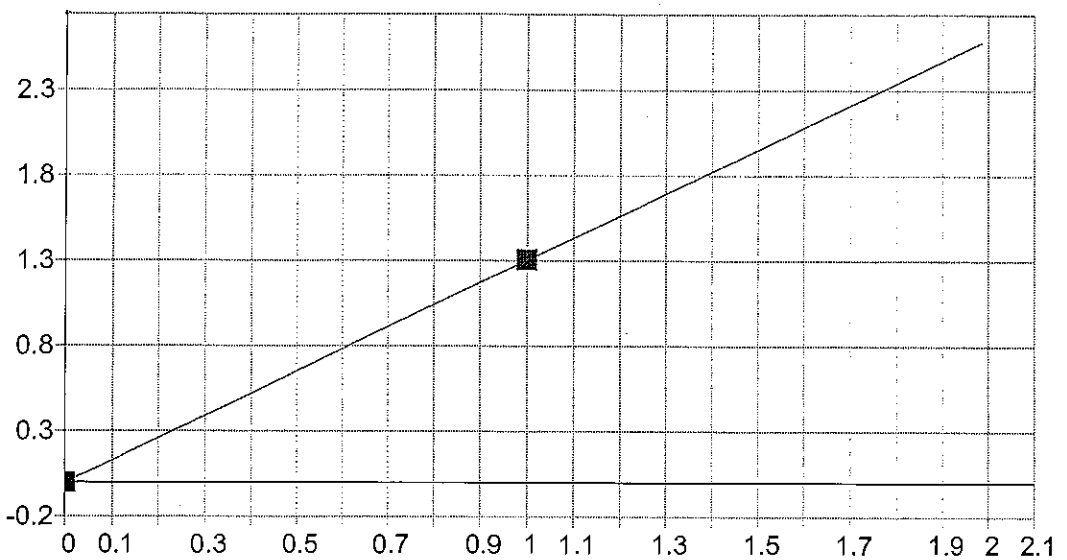


Cd 228.802 {447}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001338	Re-Slope:	1.000000
A1 (Gain):	2.898958	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000153		
Predicted MQL:	0.000512		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00134	.000	1
S1	1.0000	1.0000	.000	.000	2.9120	.007	1

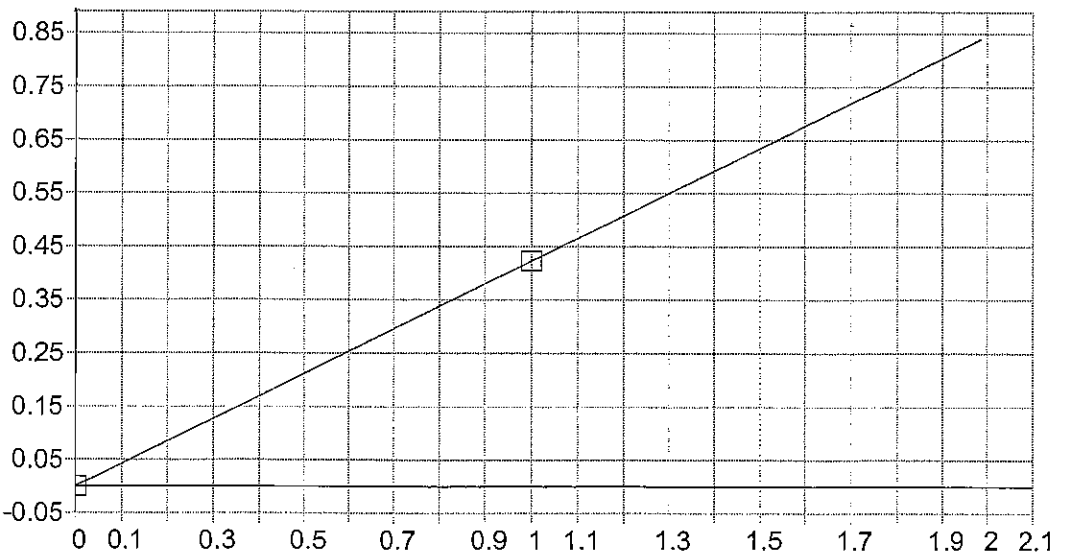


Co 228.616 {447}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000517	Re-Slope:	1.000000
A1 (Gain):	1.301846	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000282		
Predicted MQL:	0.000942		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00052	.000	1
S1	1.0000	1.00000	.000	.000	1.3034	.004	1

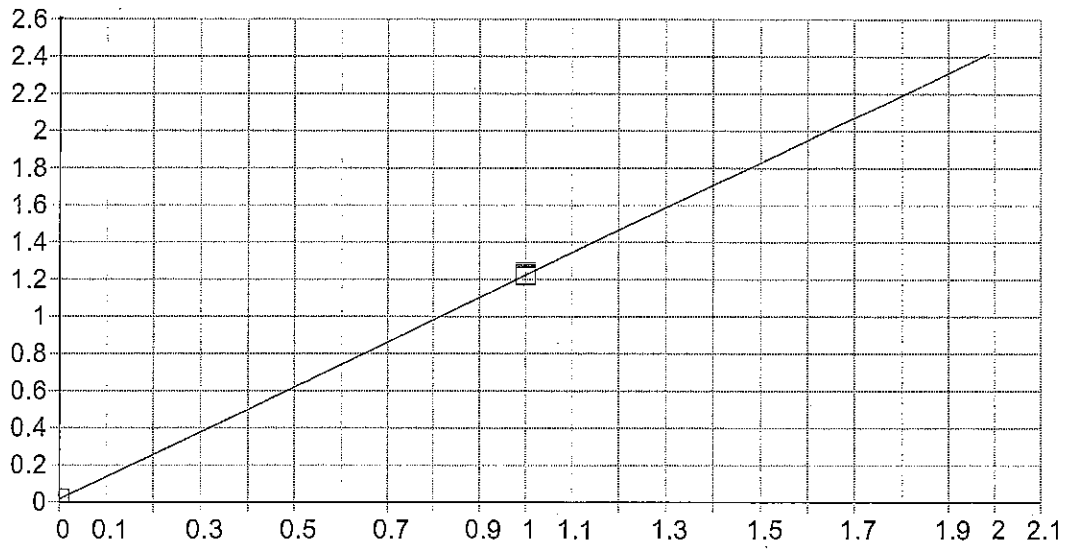


Cr 267.716 {126}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000047	Re-Slope:	1.000000
A1 (Gain):	0.422786	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000684		
Predicted MQL:	0.002279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00005	.000	1
S1	1.0000	1.0000	.000	.000	.42283	.001	1

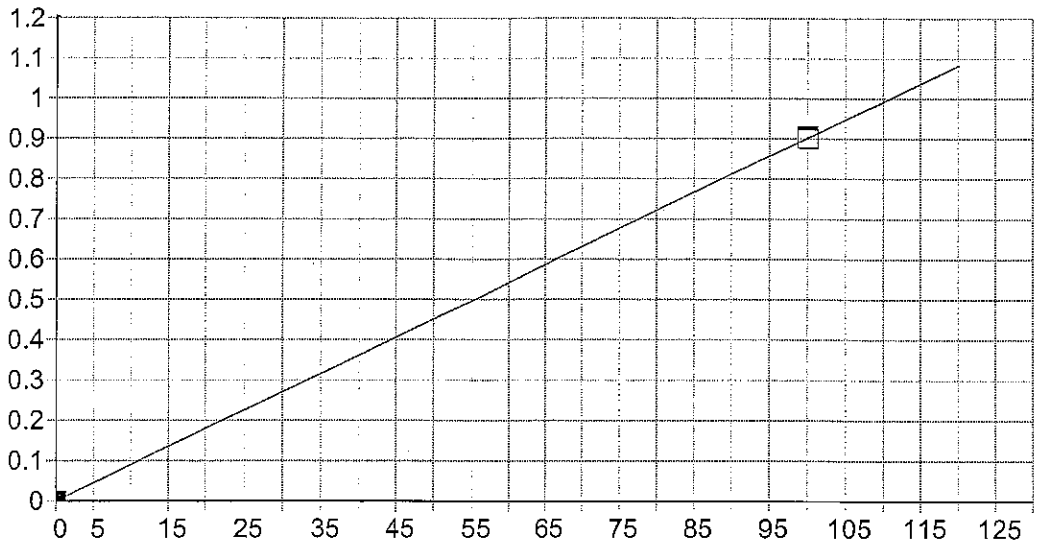


Cu 324.754 {104}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014331	Re-Slope:	1.000000
A1 (Gain):	1.209201	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000352		
Predicted MQL:	0.001173		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01433	.000	1
S1	1.0000	1.0000	.000	.000	1.2235	.012	1

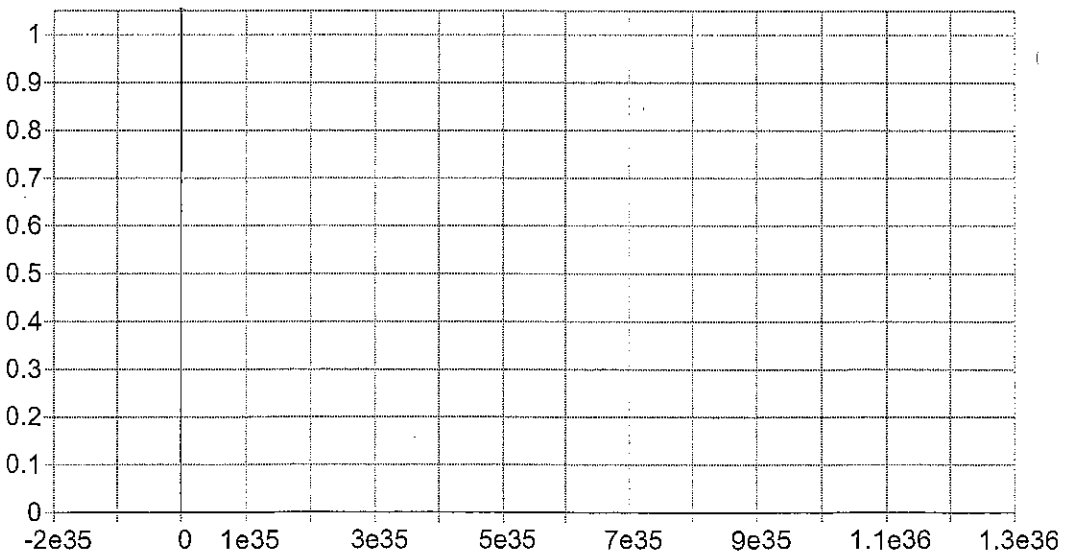


Fe 271.441 {124}

Date of Fit:	12/13/2012 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000252	Re-Slope:	1.000000
A1 (Gain):	0.009013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.047014		
Predicted MQL:	0.156713		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00025	.000	1
S2	100.00	100.00	.000	.000	.90156	.004	1

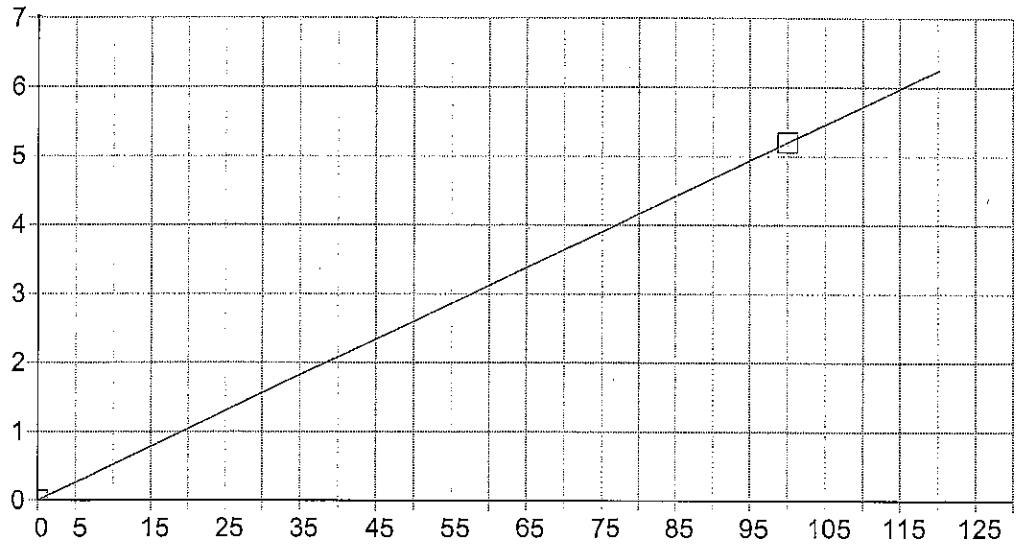


In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

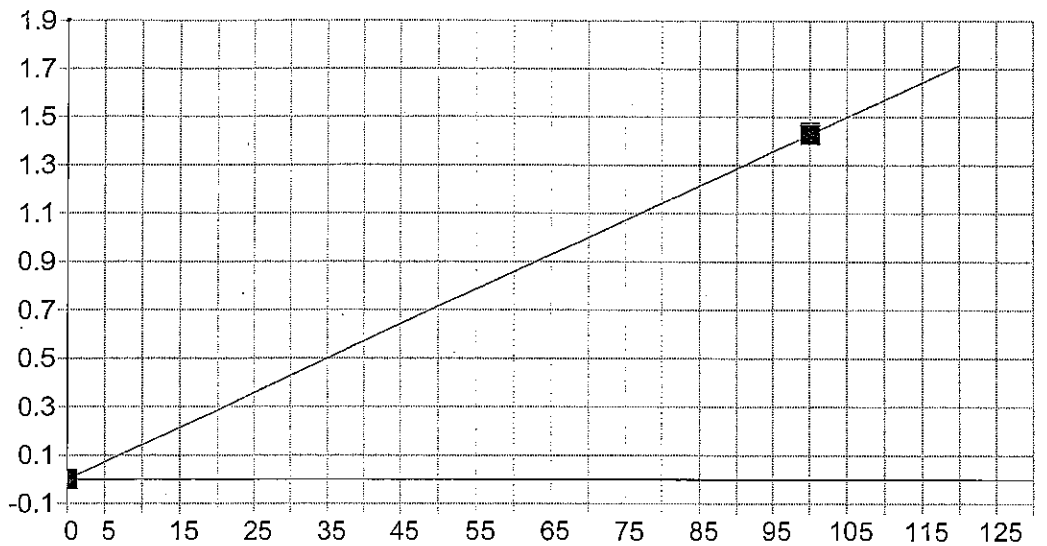


K 766.490 { 44}

Date of Fit:	12/13/2012 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001819	Re-Slope:	1.000000
A1 (Gain):	0.051956	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.029848		
Predicted MQL:	0.099493		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00182	.000	1
S2	100.00	100.00	.000	.000	5.1974	.007	1

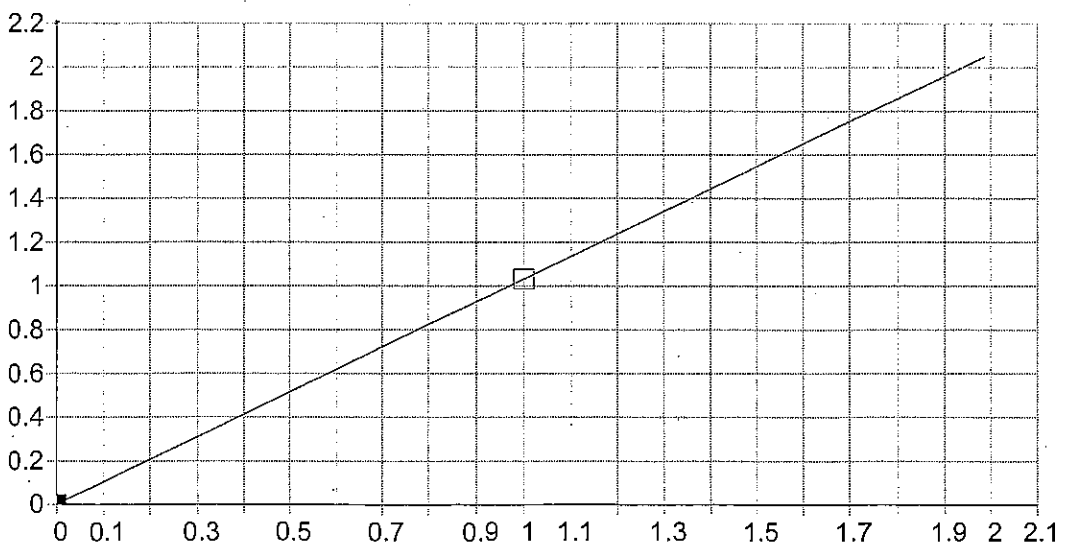


Mg 279.079 {121}

Date of Fit:	12/13/2012 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000127	Re-Slope:	1.000000
A1 (Gain):	0.014280	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.021860		
Predicted MQL:	0.072865		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00013	.000	1
S2	100.00	100.00	.000	.000	1.4277	.006	1

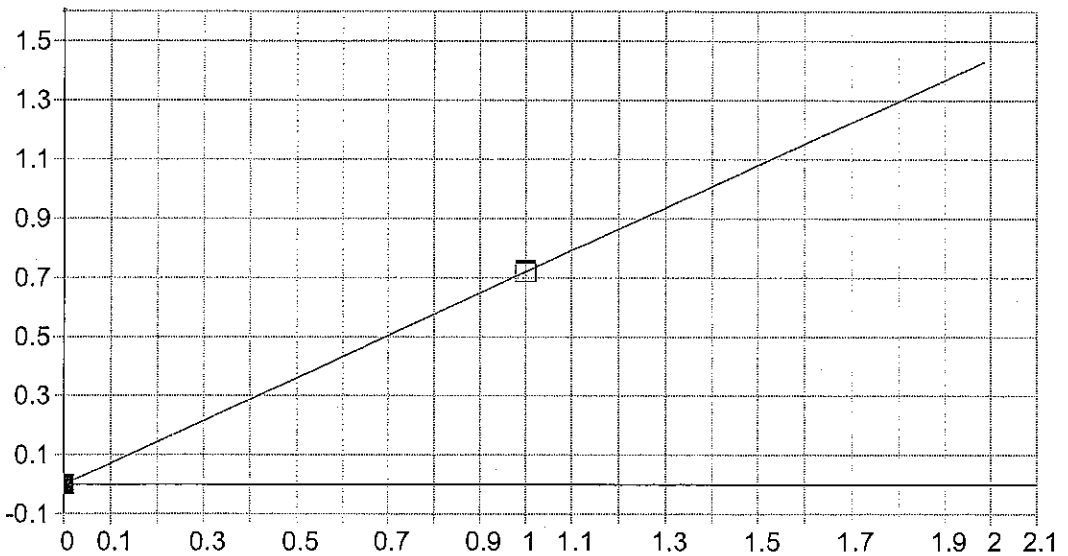


Mn 257.610 {131}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000600	Re-Slope:	1.000000
A1 (Gain):	1.030606	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000338		
Predicted MQL:	0.001125		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00060	.000	1
S1	1.0000	1.0000	.000	.000	1.0312	.002	1

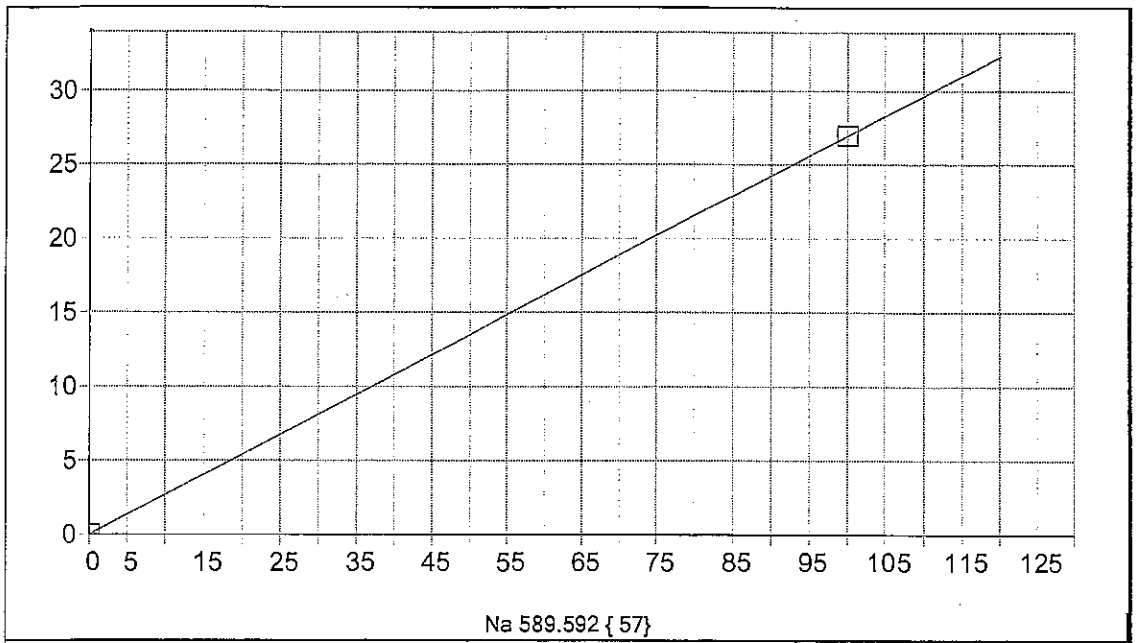


Mo 202.030 {467}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000376	Re-Slope:	1.000000
A1 (Gain):	0.720059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000385		
Predicted MQL:	0.001285		

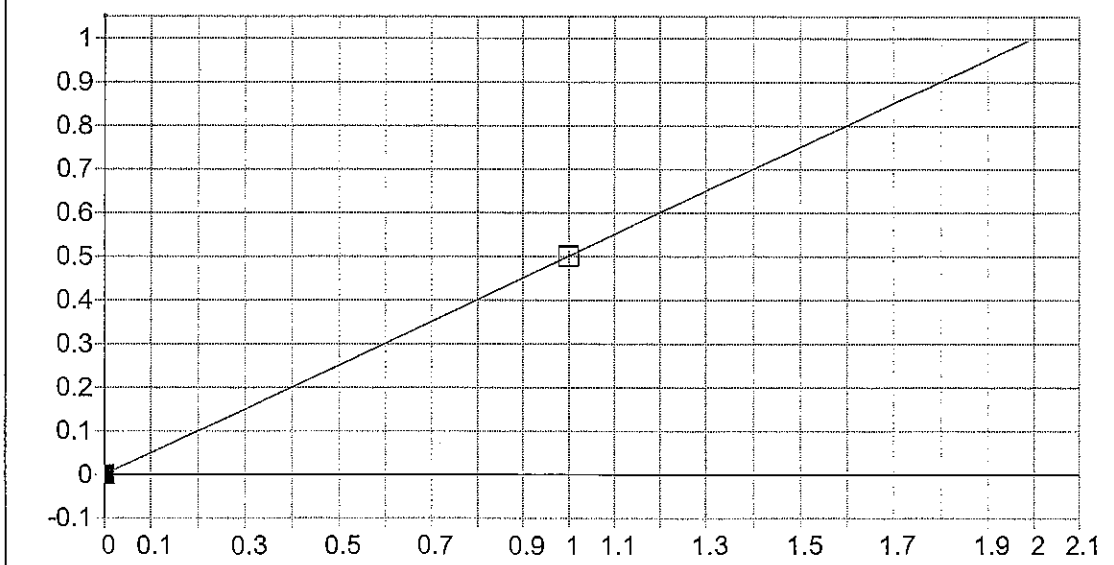
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00038	.000	1
S1	1.0000	1.0000	.000	.000	.71968	.004	1



Date of Fit:	12/13/2012 13:29:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008393	Re-Slope:	1.000000
A1 (Gain):	0.269294	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.006302		
Predicted MQL:	0.021007		

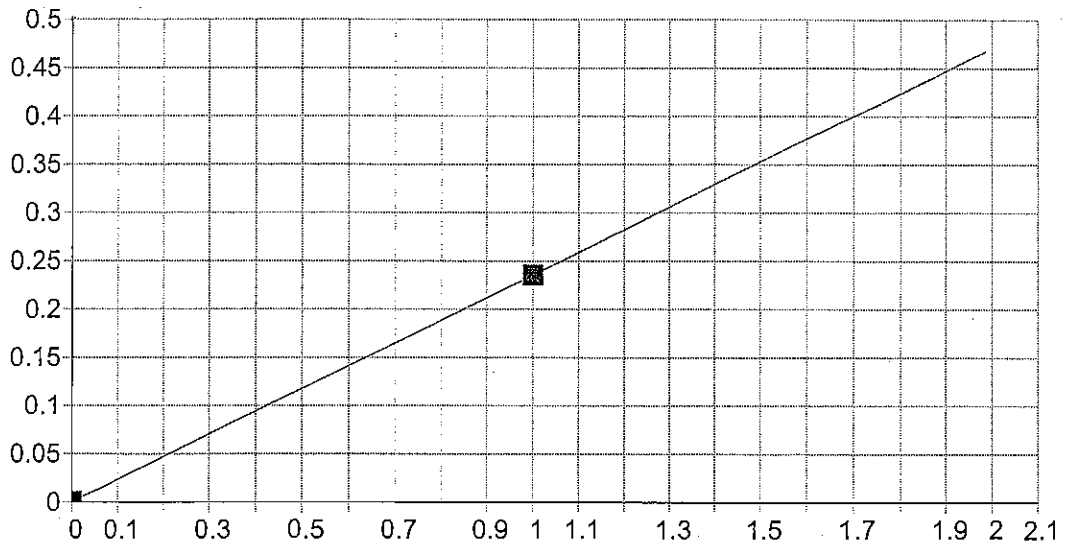
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00839	.002	1
S2	100.00	100.000	.000	.000	26.938	.055	1



Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000098	Re-Slope:	1.000000
A1 (Gain):	0.500810	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000621		
Predicted MQL:	0.002071		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00010	.000	1
S1	1.0000	1.0000	.000	.000	.50071	.002	1

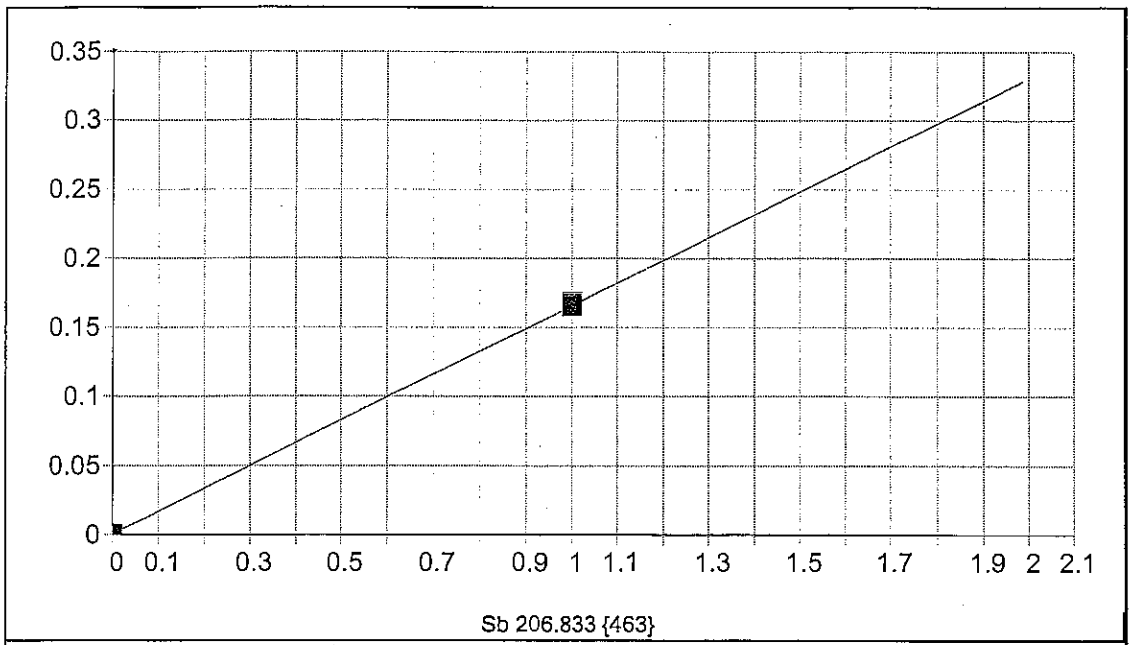


Pb 220.353 {453}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000147	Re-Slope:	1.000000
A1 (Gain):	0.235281	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001585		
Predicted MQL:	0.005282		

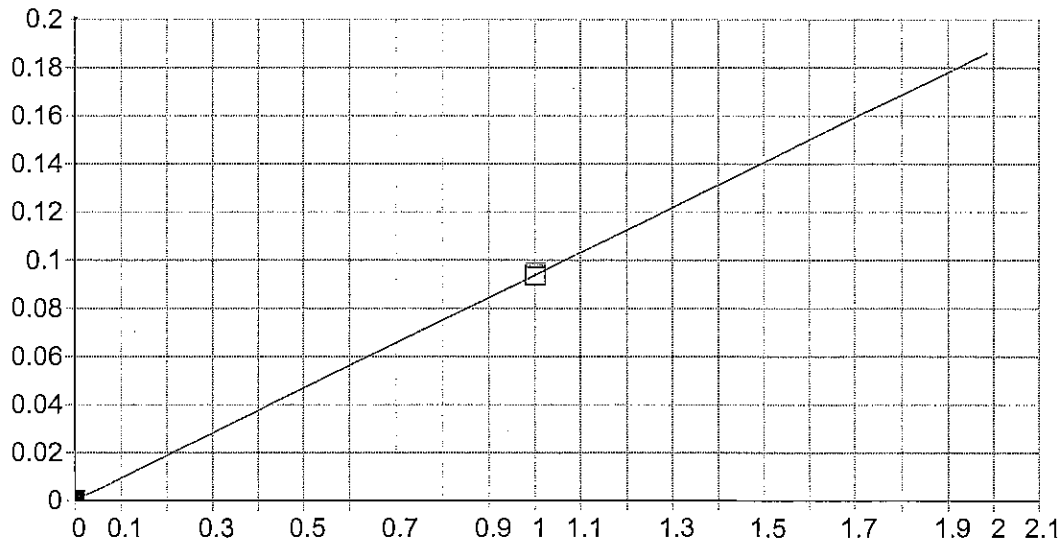
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00015	.000	1
S1	1.0000	1.00000	.000	.000	.23552	.001	1



Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000535	Re-Slope:	1.000000
A1 (Gain):	0.165007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001678		
Predicted MQL:	0.005592		

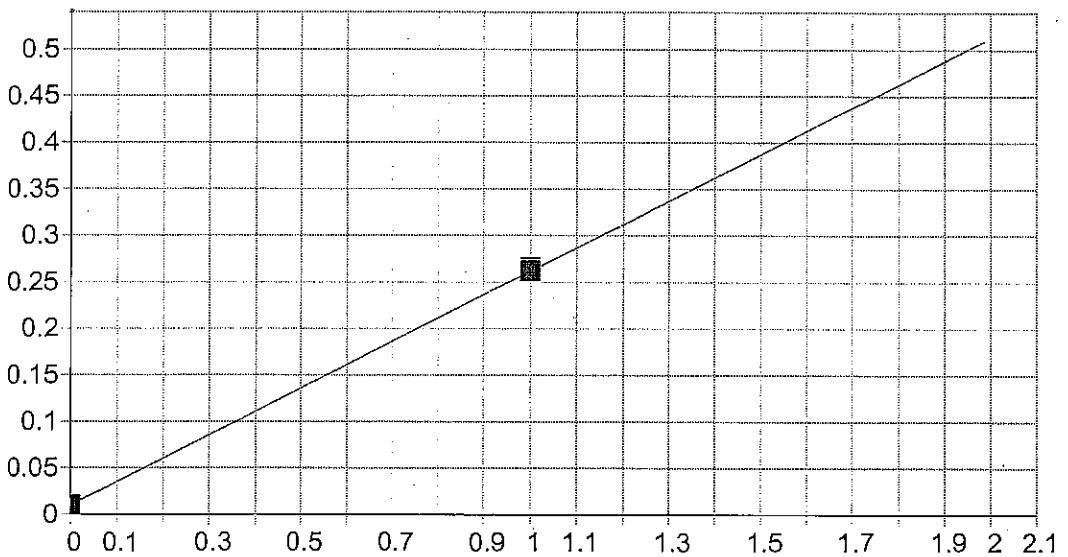
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00053	.000	1
S1	1.0000	1.0000	.000	.000	.16749	.001	1



Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000137	Re-Slope:	1.000000
A1 (Gain):	0.093608	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002978		
Predicted MQL:	0.009928		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00014	.000	1
S1	1.0000	1.0000	.000	.000	.09374	.001	1

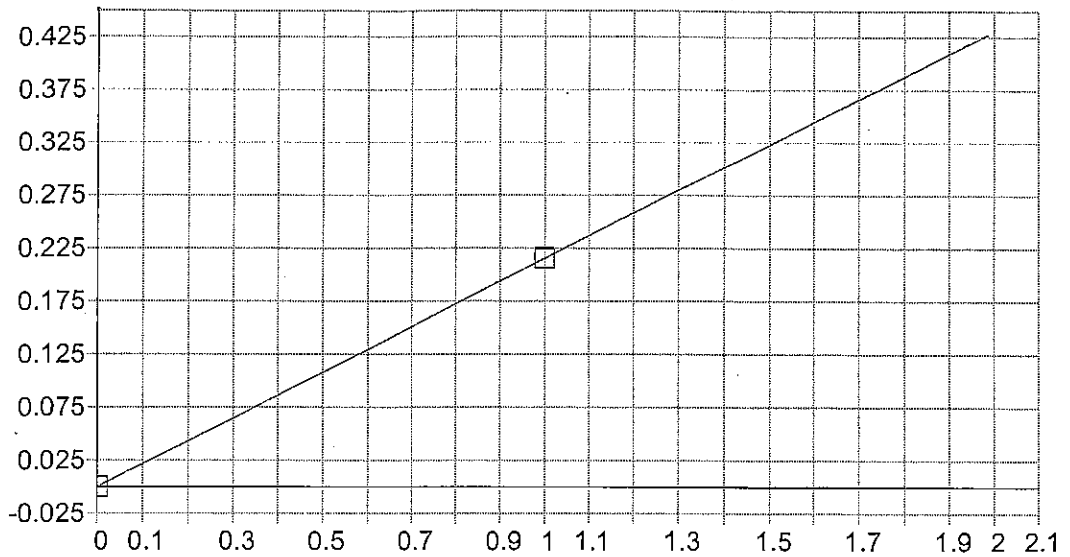


Si 212.412 {459}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010280	Re-Slope:	1.000000
A1 (Gain):	0.251348	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001006		
Predicted MQL:	0.003352		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01028	.000	1
S1	1.0000	1.0000	.000	.000	.26523	.001	1

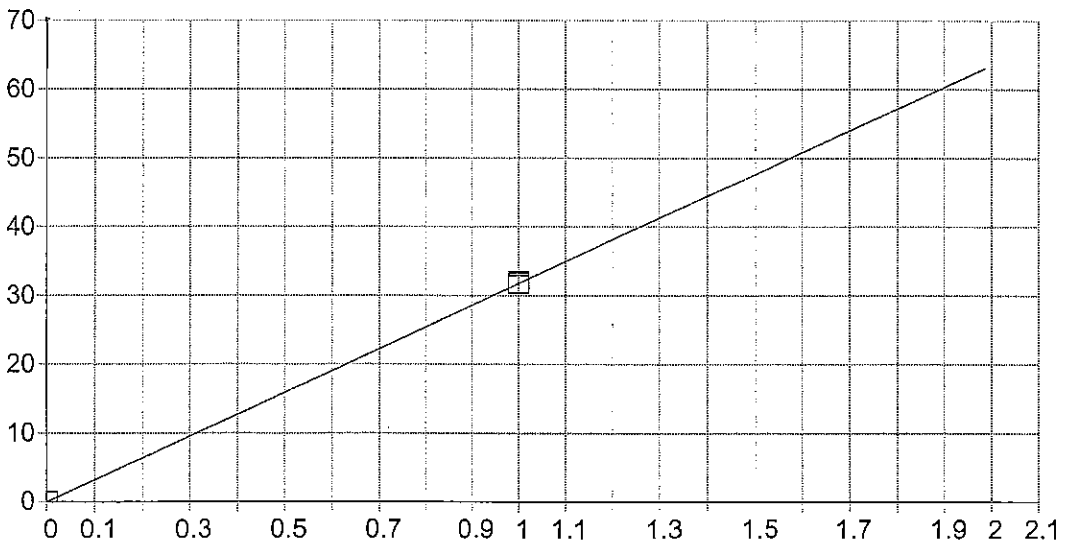


Sn 189.989 {477}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.215199	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001269		
Predicted MQL:	0.004229		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00005	.000	1
S1	1.0000	1.0000	.000	.000	.21525	.001	1

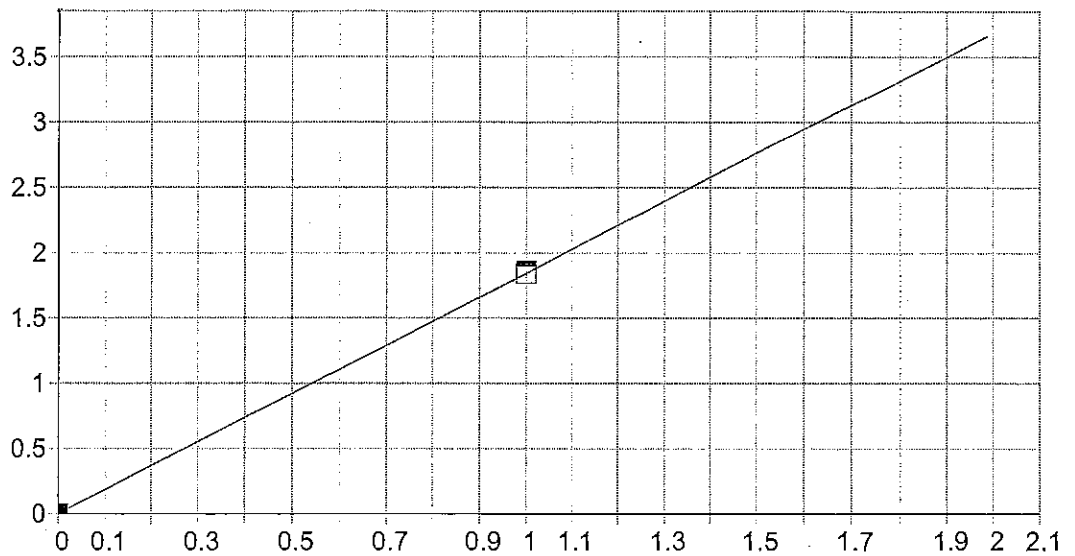


Sr 421.552 { 80}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000870	Re-Slope:	1.000000
A1 (Gain):	31.756288	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000015		
Predicted MQL:	0.000050		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00087	.000	1
S1	1.0000	1.0000	.000	.000	31.757	.234	1

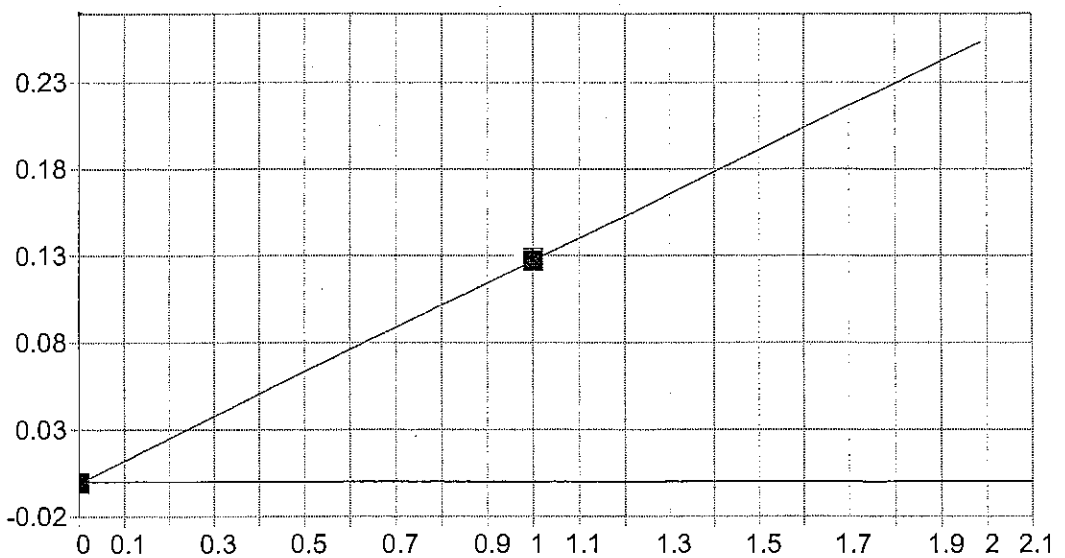


Ti 334.941 {101}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000685	Re-Slope:	1.000000
A1 (Gain):	1.841051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000162		
Predicted MQL:	0.000540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00069	.000	1
S1	1.0000	1.0000	.000	.000	1.8417	.015	1

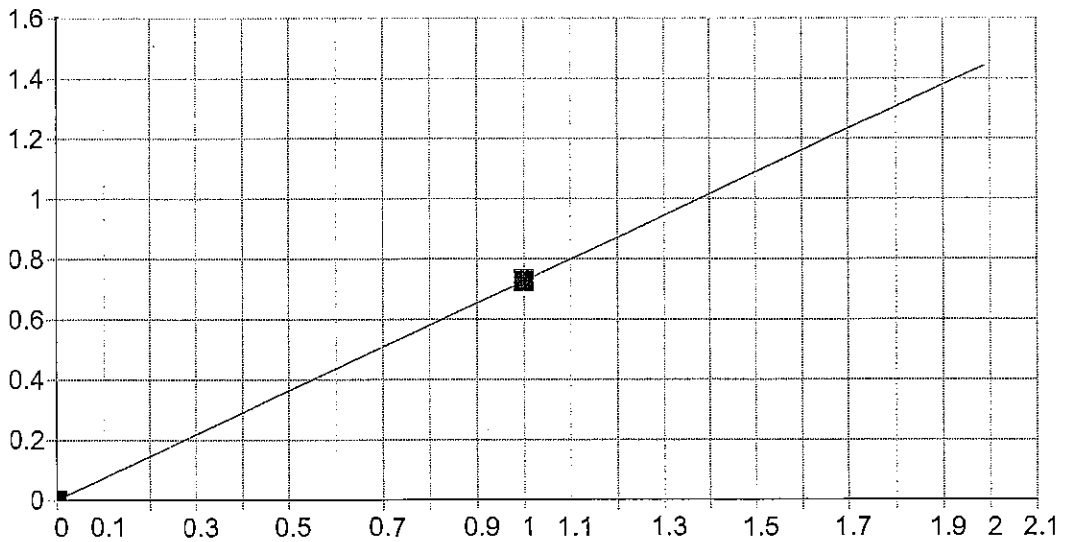


Tl 190.856 {477}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000719	Re-Slope:	1.000000
A1 (Gain):	0.127839	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001328		
Predicted MQL:	0.004426		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00072	.000	1
S1	1.0000	1.0000	.000	.000	.12623	.001	1

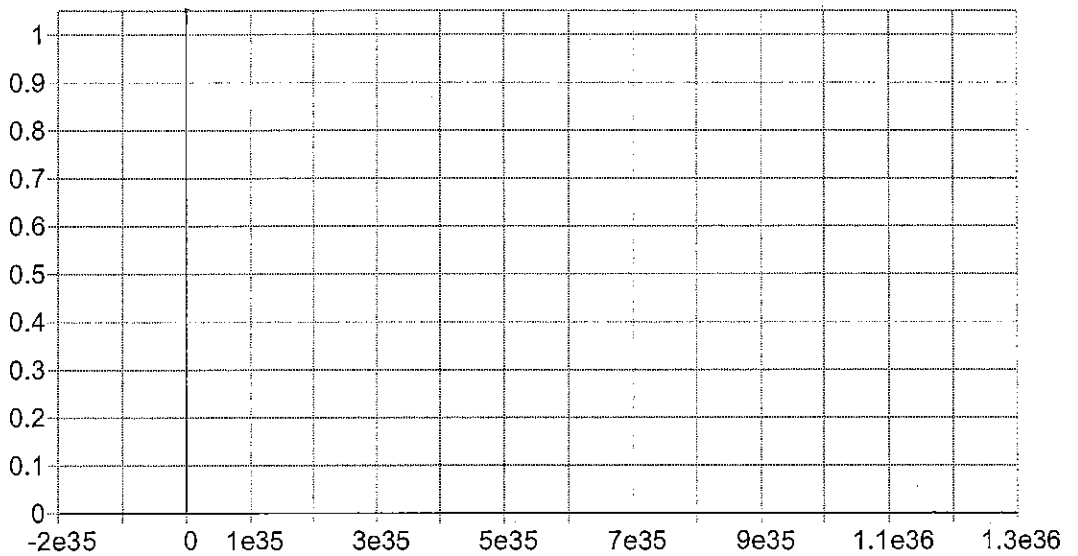


V 292.402 {115}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000392	Re-Slope:	1.000000
A1 (Gain):	0.725304	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000512		
Predicted MQL:	0.001708		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00039	.000	1
S1	1.0000	1.00000	.000	.000	.72478	.004	1

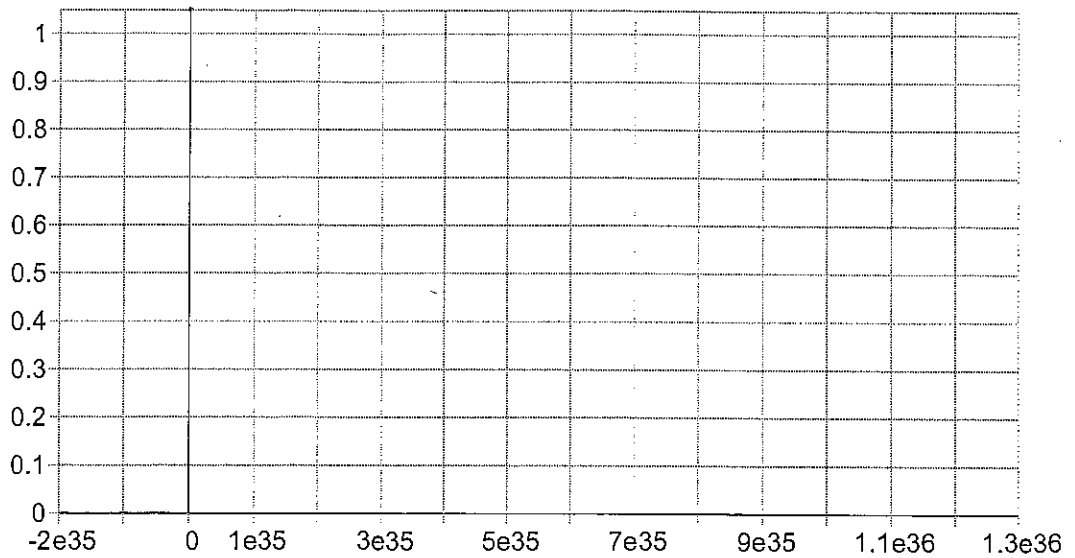


Y 224.306 {450}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

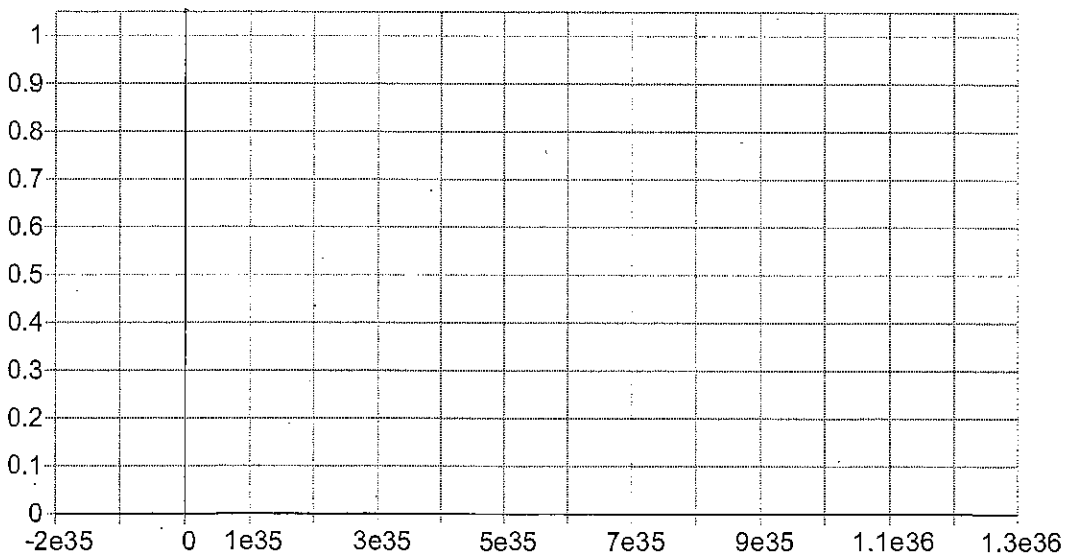


Y 360.073 { 94}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

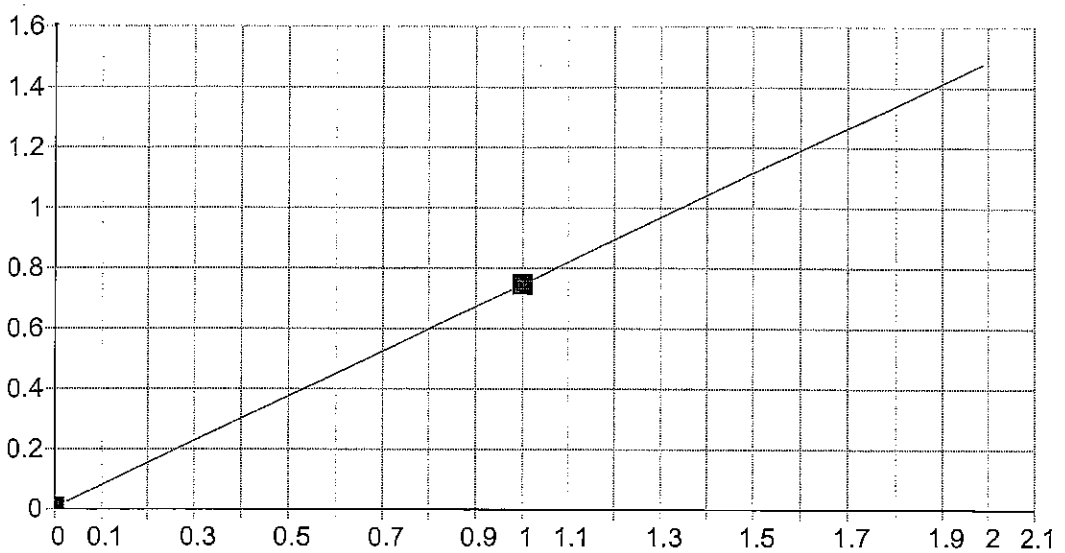


Y 371.030 { 91}*

Date of Fit:	7/17/2012 11:52:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Zn 206.200 {463}

Date of Fit:	12/13/2012 13:25:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005847	Re-Slope:	1.000000
A1 (Gain):	0.740214	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000337		
Predicted MQL:	0.001123		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00585	.000	1
S1	1.0000	1.0000	.000	.000	.74567	.002	1

Sample Name: S1 Acquired: 12/13/2012 13:29:19 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9892849	.0992349	.9905601	.9939105	1.011622	1.004771	.9909888
Stddev	.0039728	.0059593	.0070602	.0050860	.005176	.001952	.0029861
%RSD	.4015795	6.005237	.7127475	.5117196	.5116259	.1942667	.3013231
#1	.9920940	.1034487	.9855678	.9903141	1.007962	1.003391	.9888773
#2	.9864757	.0950210	.9955524	.9975069	1.015282	1.006151	.9931002
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.015669	.9930058	.9940523	.9860386	.9838583	-.028474	.0142858
Stddev	.002312	.0039021	.0016250	.0027298	.0014359	.013753	.0319777
%RSD	14.75708	.3929584	.1634746	.2768467	.1459435	48.30057	223.8433
#1	-.014034	.9902465	.9929033	.9879689	.9848736	-.038198	.0368974
#2	-.017304	.9957650	.9952014	.9841083	.9828430	-.018749	-.008326
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008899	1.004554	.9962180	.0062273	.9928267	.9941621	.9903802
Stddev	.001309	.004106	.0036245	.0021371	.0042488	.0009879	.0072065
%RSD	14.71433	.4087557	.3638278	34.31830	.4279489	.0993680	.7276475
#1	-.009824	1.001651	.9936551	.0047161	.9898223	.9934636	.9852845
#2	-.007973	1.007458	.9987810	.0077385	.9958310	.9948607	.9954760
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: S1 Acquired: 12/13/2012 13:29:19 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9881396	.9894802	.9940319	.9851025	.9862004	.9990900	.9852960
Stddev	.0025464	.0027514	.0015118	.0019778	.0030679	.0022730	.0021900
%RSD	.2576914	.2780597	.1520881	.2007701	.3110848	.2275030	.2222629
#1	.9899401	.9875347	.9929629	.9865010	.9883697	.9974828	.9868445
#2	.9863390	.9914257	.9951009	.9837040	.9840310	1.000697	.9837475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.9923605
Stddev	.0041436
%RSD	.4175477
#1	.9894306
#2	.9952905
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3129.492	2619.262	13166.97	6108.122
Stddev	4.927	6.427	8.77	16.955
%RSD	.1574395	.2453715	.0665845	.2775820
#1	3132.976	2623.806	13160.77	6120.110
#2	3126.008	2614.717	13173.17	6096.132

Sample Name: S2 Acquired: 12/13/2012 13:33:14 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002101	100.2890	.0026001	.0002148	-.000322	.0000761	-.004971
Stddev	.0002830	.4191	.0006397	.0001433	.000106	.0000609	.000088
%RSD	134.6956	.4179105	24.60194	66.72782	32.92942	80.07263	1.777644
#1	.0000100	100.5854	.0021478	.0003162	-.000396	.0001192	-.005033
#2	.0004103	99.9927	.0030525	.0001135	-.000247	.0000330	-.004908
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.82106	-.000018	.0004593	.0000425	.0012424	100.3268	100.3647
Stddev	.37324	.000098	.0001077	.0000054	.0001729	.2343	.3754
%RSD	.3739078	529.8519	23.45520	12.67983	13.91730	.2335418	.3740213
#1	100.0850	.000051	.0005355	.0000387	.0013646	100.4925	100.6301
#2	99.5571	-.000088	.0003831	.0000463	.0011201	100.1612	100.0992
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	100.1636	-.000651	.0009580	100.3701	.0002995	.0017875	.0010973
Stddev	.5022	.000001	.0000911	.3780	.0007261	.0010373	.0017563
%RSD	.5013411	.1687538	9.508879	.3766025	242.4888	58.03127	160.0549
#1	100.5187	-.000652	.0010224	100.6374	-.000214	.0025210	.0023392
#2	99.8085	-.000651	.0008936	100.1028	.000813	.0010540	-.000145
Check ?	Chk Pass	None	None	Chk Pass	None	None	None
Value							
Range							

Sample Name: S2 Acquired: 12/13/2012 13:33:14 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028983	.0014600	.0037708	.0039474	.0026683	-.000533	.0010303
Stddev	.0013197	.0002387	.0023654	.0000149	.0000805	.000553	.0001040
%RSD	45.53241	16.35141	62.73047	.3775410	3.018435	103.6220	10.09490
#1	.0019652	.0012912	.0054434	.0039579	.0027252	-.000924	.0011038
#2	.0038315	.0016288	.0020982	.0039369	.0026114	-.000143	.0009567
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	-.007224
Stddev	.000166
%RSD	2.293334
#1	-.007341
#2	-.007107
Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2611.155	2452.772	12184.04	5934.917
Stddev	3.061	4.207	26.44	11.880
%RSD	.1172413	.1715009	.2169928	.2001638
#1	2613.320	2455.747	12165.34	5926.517
#2	2608.991	2449.798	12202.73	5943.317

Sample Name: ICV Acquired: 12/13/2012 13:38:07 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3885914	40.80080	.3945522	.3942167	.3941347	.3963796	.3970743
Stddev	.0002564	.32100	.0015015	.0017559	.0004371	.0005789	.0002389
%RSD	.0659832	.7867502	.3805650	.4454238	.1109002	.1460354	.0601591
#1	.3884101	40.57382	.3956140	.3954583	.3938256	.3959703	.3969054
#2	.3887727	41.02778	.3934905	.3929750	.3944437	.3967889	.3972432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.19738	.3887513	.3997379	.3881532	.3848305	20.02586	39.64431
Stddev	.03868	.0006346	.0007225	.0012627	.0002638	.13485	.09788
%RSD	.1915097	.1632453	.1807421	.3253132	.0685568	.6733963	.2468931
#1	20.17002	.3892001	.4002487	.3890460	.3846440	19.93051	39.57510
#2	20.22473	.3883026	.3992270	.3872603	.3850171	20.12122	39.71352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.53623	3.855567	.3771060	19.97275	.3944144	.3984525	.3872619
Stddev	.02162	.005926	.0017666	.05486	.0010331	.0022467	.0023739
%RSD	.1106525	.1536950	.4684650	.2746847	.2619375	.5638612	.6130075
#1	19.52095	3.851377	.3783551	19.93396	.3951450	.4000412	.3889406
#2	19.55152	3.859757	.3758568	20.01154	.3936839	.3968639	.3855833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 12/13/2012 13:38:07 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3844038	.4178776	.4028329	.3843110	.3851295	.3989347	3.882979
Stddev	.0018422	.0004652	.0011244	.0004256	.0007297	.0016295	.003081
%RSD	.4792341	.1113228	.2791238	.1107383	.1894767	.4084690	.0793558
#1	.3857064	.4182065	.4036280	.3840101	.3846135	.4000870	3.885158
#2	.3831012	.4175487	.4020379	.3846120	.3856455	.3977825	3.880800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.4003005
Stddev	.0000968
%RSD	.0241753
#1	.4002321
#2	.4003690
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.921	2558.219	12725.23	6031.905
Stddev	8.068	9.816	6.21	.464
%RSD	.2806476	.3837017	.0487891	.0076941
#1	2869.215	2551.278	12729.62	6032.233
#2	2880.626	2565.160	12720.84	6031.577

Sample Name: ICB Acquired: 12/13/2012 13:42:00 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003204	-.003707	.0011663	-.000052	-.000564	.0001453	-.000128
Stddev	.0000575	.015880	.0002763	.000288	.000075	.0000115	.001154
%RSD	17.93650	428.4030	23.69218	555.8075	13.29673	7.901484	902.4039
#1	.0003610	-.014936	.0013616	.000152	-.000511	.0001534	.000688
#2	.0002797	.007522	.0009709	-.000255	-.000617	.0001371	-.000944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.018643	-.000101	-.000055	-.000024	-.000021	-.023410	-.009861
Stddev	.001484	.000223	.000168	.000407	.000012	.013440	.011509
%RSD	7.958397	221.1406	303.4971	1685.199	58.80522	57.41305	116.7086
#1	-.017594	.000057	-.000174	-.000312	-.000029	-.013906	-.001723
#2	-.019692	-.000258	.000063	.000264	-.000012	-.032913	-.017999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.015684	-.000234	.0002750	-.005348	-.001542	-.000481	.0003600
Stddev	.032727	.000037	.0001216	.001991	.000317	.000966	.0002826
%RSD	208.6620	15.79661	44.22345	37.21753	20.54347	200.9152	78.50099
#1	.007457	-.000260	.0001890	-.006756	-.001766	-.001164	.0001602
#2	-.038826	-.000208	.0003610	-.003941	-.001318	.000202	.0005598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 12/13/2012 13:42:00 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013651	-.000702	.0005501	-.000040	-.000010	.0023040	.0002784
Stddev	.0005927	.000921	.0000423	.000001	.000167	.0006454	.0001313
%RSD	43.41826	131.1199	7.686303	2.877011	1615.921	28.01124	47.15496
#1	.0009460	-.001354	.0005202	-.000041	.000108	.0027603	.0001856
#2	.0017842	-.000051	.0005800	-.000040	-.000128	.0018476	.0003712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.007851
Stddev	.000150
%RSD	1.906398
#1	-.007746
#2	-.007957
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3145.260	2629.192	13222.52	6073.736
Stddev	22.706	18.184	45.96	20.034
%RSD	.7219068	.6916212	.3475567	.3298544
#1	3161.315	2642.050	13190.03	6087.903
#2	3129.204	2616.334	13255.02	6059.570

Sample Name: CRI Acquired: 12/13/2012 13:45:13 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099982	.3855898	.0180821	.0965624	.0191172	.0077930	.0959423
Stddev	.0004668	.0045725	.0001869	.0004486	.0000512	.0000811	.0012112
%RSD	4.669380	1.185855	1.033789	.4646230	.2678060	1.041090	1.262374
#1	.0103283	.3888231	.0179499	.0962452	.0191534	.0078504	.0950859
#2	.0096680	.3823565	.0182142	.0968797	.0190810	.0077357	.0967987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3815900	.0038421	.0093647	.0191869	.0194980	.4194377	.9647054
Stddev	.0060707	.0002926	.0001923	.0001695	.0007602	.0045758	.0215813
%RSD	1.590905	7.615441	2.053070	.8835296	3.898708	1.090925	2.237082
#1	.3858827	.0040490	.0092288	.0190671	.0200355	.4162021	.9799657
#2	.3772974	.0036352	.0095007	.0193068	.0189605	.4226732	.9494452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1776962	.0190618	.0189887	1.946958	.0186720	.0091348	.0381204
Stddev	.0053435	.0002142	.0001056	.006086	.0005619	.0013988	.0008635
%RSD	3.007109	1.123725	.5558600	.3125955	3.009138	15.31329	2.265093
#1	.1814746	.0189103	.0189141	1.951262	.0182747	.0101239	.0387309
#2	.1739177	.0192132	.0190633	1.942655	.0190693	.0081457	.0375098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 12/13/2012 13:45:13 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190580	.3791274	.0760905	.0099816	.0098852	.0194618	.0100045
Stddev	.0007066	.0019666	.0012718	.0002736	.0004094	.0003830	.0003223
%RSD	3.707689	.5187219	1.671394	2.741482	4.141745	1.967988	3.221363
#1	.0195577	.3777368	.0751913	.0101751	.0101748	.0197327	.0102324
#2	.0185584	.3805180	.0769898	.0097881	.0095958	.0191910	.0097766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.0311383
Stddev	.0003158
%RSD	1.014047
#1	.0313615
#2	.0309150
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3145.007	2632.656	13007.18	6120.260
Stddev	4.401	7.966	212.26	50.123
%RSD	.1399389	.3025944	1.631841	.8189618
#1	3148.119	2638.289	12857.10	6084.818
#2	3141.894	2627.023	13157.27	6155.702

Sample Name: ICSA Acquired: 12/13/2012 13:49:17 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000024	498.8074	.0066783	-.000080	-.000304	.0001311	-.012035
Stddev	.0003265	.3639	.0002195	.000470	.000047	.0000305	.000618
%RSD	13679.80	.0729631	3.287408	586.9578	15.40535	23.26394	5.136633
#1	.0002333	499.0647	.0068335	.000253	-.000271	.0001527	-.012472
#2	-.000228	498.5500	.0065230	-.000413	-.000337	.0001096	-.011598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	465.8647	-.000346	-.002380	.0025316	.0032521	187.6530	-.011830
Stddev	1.8647	.000210	.000121	.0012704	.0003100	.3402	.002028
%RSD	.4002631	60.87457	5.097806	50.18332	9.532314	.1812771	17.14502
#1	464.5462	-.000495	-.002466	.0034299	.0034713	187.4124	-.010396
#2	467.1832	-.000197	-.002294	.0016332	.0030329	187.8935	-.013264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	503.5402	.0000416	-.000183	.0239031	-.000540	.0056802	.0012118
Stddev	1.2188	.0000786	.000418	.0017347	.000385	.0003259	.0025414
%RSD	.2420519	188.8403	228.3464	7.257140	71.34316	5.736657	209.7233
#1	502.6784	-.000014	.000112	.0226765	-.000268	.0059106	.0030088
#2	504.4021	.000097	-.000478	.0251297	-.000813	.0054498	-.000585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 12/13/2012 13:49:17 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002123	-.001564	.0109039	.0020822	.0030645	-.006231	.0022105
Stddev	.000613	.000725	.0016144	.0000047	.0000426	.002096	.0000483
%RSD	28.85339	46.34689	14.80568	.2260078	1.390891	33.64780	2.183746
#1	-.002556	-.002076	.0120455	.0020789	.0030946	-.007713	.0021763
#2	-.001690	-.001051	.0097624	.0020856	.0030343	-.004748	.0022446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.006266
Stddev	.000155
%RSD	2.477313
#1	-.006156
#2	-.006375
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2331.984	2296.834	11417.78	5788.934
Stddev	8.703	7.296	16.91	14.709
%RSD	.3731947	.3176714	.1480923	.2540817
#1	2338.138	2301.994	11429.73	5799.335
#2	2325.830	2291.675	11405.82	5778.534

Sample Name: ICSAB Acquired: 12/13/2012 13:54:18 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2097203	493.4280	.1057778	-.000694	.4815299	.4967017	-.011918
Stddev	.0006655	.5360	.0018764	.000532	.0005829	.0010984	.001419
%RSD	.3173166	.1086254	1.773912	76.61322	.1210565	.2211480	11.90520
#1	.2101909	493.0490	.1044509	-.001071	.4811177	.4959250	-.012922
#2	.2092497	493.8070	.1071046	-.000318	.4819421	.4974784	-.010915
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	461.9547	.9812060	.5026801	.4486910	.5197394	185.3630	-.024604
Stddev	1.9724	.0024683	.0023129	.0037129	.0008379	.5867	.018631
%RSD	.4269721	.2515634	.4601073	.8274890	.1612164	.3165342	75.72403
#1	460.5600	.9829514	.5043155	.4513164	.5191469	184.9481	-.011430
#2	463.3494	.9794606	.5010447	.4460656	.5203319	185.7778	-.037778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	498.6520	.4546202	-.000076	.0301658	.9769690	.0584040	.5802877
Stddev	1.3730	.0005333	.000312	.0006779	.0037058	.0010894	.0024320
%RSD	.2753423	.1173011	411.2218	2.247157	.3793199	1.865330	.4190961
#1	497.6812	.4542431	.000145	.0306451	.9795894	.0576337	.5785681
#2	499.6229	.4549973	-.000297	.0296865	.9743485	.0591744	.5820074
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 12/13/2012 13:54:18 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0423966	-.005291	.0113975	.0020543	.0042135	.0865691	.4706499
Stddev	.0014615	.001377	.0030644	.0000115	.0000242	.0017232	.0005775
%RSD	3.447145	26.03461	26.88632	.5589937	.5738978	1.990597	.1226976
#1	.0413632	-.004317	.0092307	.0020462	.0042306	.0853506	.4710582
#2	.0434300	-.006265	.0135643	.0020624	.0041964	.0877876	.4702415
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.9764293
Stddev	.0056979
%RSD	.5835404
#1	.9804582
#2	.9724002
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2341.327	2296.708	11452.35	5830.406
Stddev	7.166	3.615	3.99	15.139
%RSD	.3060717	.1573960	.0348265	.2596513
#1	2336.260	2294.152	11449.53	5841.111
#2	2346.394	2299.264	11455.17	5819.701

Sample Name: CCV Acquired: 12/13/2012 13:59:09 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4832199	50.59680	.4854591	.4805805	.4818280	.4895700	.4877990
Stddev	.0003504	.51064	.0109695	.0076836	.0051735	.0031678	.0053641
%RSD	.0725140	1.009239	2.259606	1.598821	1.073719	.6470653	1.099648
#1	.4829721	50.23572	.4777025	.4751474	.4781698	.4873300	.4840060
#2	.4834676	50.95788	.4932157	.4860137	.4854862	.4918100	.4915920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.58457	.4752935	.4922389	.4787428	.4771129	24.68318	48.88332
Stddev	.22641	.0089012	.0083161	.0041467	.0026781	.11917	.53478
%RSD	.9209530	1.872791	1.689435	.8661728	.5613227	.4827985	1.093992
#1	24.42447	.4689994	.4863586	.4758107	.4752192	24.59891	48.50518
#2	24.74466	.4815876	.4981193	.4816750	.4790066	24.76745	49.26147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.07262	4.731795	.4623525	24.48447	.4872017	.4942279	.4754310
Stddev	.30528	.043090	.0094177	.24890	.0096516	.0054385	.0110143
%RSD	1.268160	.9106409	2.036910	1.016566	1.981033	1.100409	2.316702
#1	23.85676	4.701326	.4556932	24.30847	.4803769	.4903822	.4676427
#2	24.28849	4.762264	.4690118	24.66047	.4940264	.4980735	.4832193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/13/2012 13:59:09 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4746591	.4963225	.4998068	.4720778	.4777780	.4903339	4.821426
Stddev	.0068234	.0079319	.0064202	.0043799	.0021686	.0077551	.016285
%RSD	1.437541	1.598134	1.284527	.9277964	.4538947	1.581599	.3377626
#1	.4698342	.4907138	.4952671	.4689807	.4762445	.4848502	4.809911
#2	.4794840	.5019312	.5043466	.4751748	.4793114	.4958176	4.832941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.4950673
Stddev	.0086953
%RSD	1.756398
#1	.4889187
#2	.5012158
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2859.903	2570.111	12653.65	6106.265
Stddev	34.698	33.572	40.43	32.869
%RSD	1.213275	1.306257	.3195448	.5382802
#1	2884.439	2593.850	12682.24	6129.507
#2	2835.367	2546.372	12625.06	6083.023

Sample Name: CCB Acquired: 12/13/2012 14:03:07 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000885	-.009282	-.000140	-.000206	-.000429	-.000038	-.001136
Stddev	.0000200	.006072	.001432	.000617	.000129	.000101	.000967
%RSD	22.58507	65.41920	1020.760	299.5627	30.16351	263.7552	85.13842
#1	.0001026	-.004988	.000872	-.000642	-.000337	-.000109	-.000452
#2	.0000744	-.013576	-.001153	.000230	-.000520	.000033	-.001819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012822	.0000913	.0000809	-.000081	-.000453	-.003024	-.009444
Stddev	.000515	.0000334	.0000595	.000074	.000361	.001536	.003490
%RSD	4.014622	36.59630	73.59070	90.55434	79.57116	50.80629	36.95680
#1	-.013186	.0000677	.0001230	-.000029	-.000709	-.001937	-.006976
#2	-.012458	.0001149	.0000388	-.000133	-.000198	-.004110	-.011912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002896	-.000072	.0003745	-.003066	-.000992	.0006804	.0000770
Stddev	.006003	.000055	.0005142	.002150	.000345	.0002389	.0000047
%RSD	207.3273	76.95154	137.2989	70.12461	34.79361	35.11240	6.036278
#1	.001349	-.000110	.0007381	-.001546	-.000748	.0005115	.0000737
#2	-.007140	-.000033	.0000109	-.004587	-.001236	.0008494	.0000803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/13/2012 14:03:07 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000283	-.004007	.0004419	-.000028	-.000004	.0016828	.0003778
Stddev	.000158	.000959	.0012488	.000001	.000100	.0003801	.0000394
%RSD	56.05406	23.93300	282.6246	3.313834	2394.658	22.58439	10.42418
#1	-.000395	-.004685	-.000441	-.000028	.000066	.0019515	.0004057
#2	-.000171	-.003329	.001325	-.000027	-.000075	.0014141	.0003500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.007619
Stddev	.000007
%RSD	.0855192
#1	-.007614
#2	-.007623
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3181.103	2659.759	13229.68	6106.574
Stddev	37.706	36.372	29.38	7.447
%RSD	1.185326	1.367488	.2220789	.1219459
#1	3207.765	2685.478	13250.46	6111.839
#2	3154.440	2634.041	13208.91	6101.308

Sample Name: CCV Acquired: 12/13/2012 14:48:55 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4802236	50.32027	.4943025	.4869517	.4781020	.4861706	.4964319
Stddev	.0017032	.39723	.0121836	.0122486	.0023632	.0041167	.0090060
%RSD	.3546656	.7893945	2.464806	2.515364	.4942847	.8467559	1.814155
#1	.4814279	50.03939	.4856874	.4782906	.4764310	.4832596	.4900636
#2	.4790193	50.60115	.5029176	.4956128	.4797731	.4890815	.5028001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.60653	.4834927	.5019389	.4780317	.4724543	24.67126	48.77191
Stddev	.17954	.0118057	.0105752	.0011080	.0003535	.11304	.28519
%RSD	.7296584	2.441753	2.106861	.2317812	.0748173	.4581988	.5847413
#1	24.47957	.4751448	.4944612	.4788152	.4722043	24.59133	48.57025
#2	24.73348	.4918406	.5094167	.4772482	.4727042	24.75119	48.97357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.95378	4.716043	.4697922	24.37009	.4951220	.5010370	.4816129
Stddev	.12496	.032715	.0115919	.14430	.0099013	.0108738	.0146109
%RSD	.5216583	.6936923	2.467444	.5921075	1.999769	2.170261	3.033735
#1	23.86543	4.692910	.4615956	24.26805	.4881208	.4933481	.4712815
#2	24.04214	4.739176	.4779889	24.47212	.5021233	.5087260	.4919444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/13/2012 14:48:55 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4744272	.5128665	.5099257	.4676834	.4748550	.4986224	4.794951
Stddev	.0057051	.0121354	.0098487	.0019199	.0006759	.0084813	.007844
%RSD	1.202520	2.366182	1.931388	.4105091	.1423308	1.700951	.1635822
#1	.4703931	.5042855	.5029617	.4690410	.4753329	.4926252	4.800497
#2	.4784613	.5214475	.5168898	.4663258	.4743771	.5046196	4.789404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5076114
Stddev	.0098972
%RSD	1.949768
#1	.5006130
#2	.5146098
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2838.101	2554.410	12775.86	6122.108
Stddev	48.502	49.771	26.33	26.775
%RSD	1.708945	1.948452	.2061117	.4373572
#1	2872.396	2589.603	12757.24	6141.041
#2	2803.805	2519.216	12794.48	6103.175

Sample Name: CCB Acquired: 12/13/2012 14:52:53 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004333	-.021703	-.000497	.0001791	-.000390	-.000022	-.001095
Stddev	.0000818	.012977	.000324	.0002274	.000093	.000225	.000523
%RSD	18.87960	59.79224	65.27650	126.9745	23.79650	1028.873	47.80051
#1	.0003754	-.012527	-.000726	.0003399	-.000456	-.000181	-.000725
#2	.0004911	-.030879	-.000268	.0000183	-.000325	.000137	-.001465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.016955	-.000081	-.000080	-.000229	-.000145	-.004163	.0042423
Stddev	.001166	.000084	.000124	.000136	.000130	.015411	.0038489
%RSD	6.879375	103.2784	155.6422	59.30267	89.58387	370.1945	90.72608
#1	-.016130	-.000141	.000008	-.000325	-.000237	.006734	.0069639
#2	-.017779	-.000022	-.000167	-.000133	-.000053	-.015060	.0015208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013890	-.000009	.0004881	.0239485	-.001011	.0005675	.0006294
Stddev	.002447	.000122	.0003202	.0017441	.000068	.0001871	.0005071
%RSD	17.61839	1415.428	65.59886	7.282644	6.769871	32.96121	80.56704
#1	-.015621	.000078	.0007145	.0251817	-.001060	.0004353	.0009880
#2	-.012160	-.000095	.0002617	.0227152	-.000963	.0006998	.0002708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/13/2012 14:52:53 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000621	.0005010	.0005822	-.000008	-.000193	.0001998	.0003376
Stddev	.002769	.0005297	.0008132	.000000	.000029	.0006478	.0001168
%RSD	445.8206	105.7287	139.6805	4.427919	14.79207	324.2411	34.58580
#1	-.002579	.0008756	.0011573	-.000008	-.000213	-.000258	.0004202
#2	.001337	.0001265	.0000072	-.000008	-.000173	.000658	.0002550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.007717
Stddev	.000280
%RSD	3.629545
#1	-.007915
#2	-.007519
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3168.065	2648.670	13328.73	6073.024
Stddev	8.267	6.441	16.80	35.818
%RSD	.2609487	.2431820	.1260779	.5897930
#1	3162.220	2644.115	13316.85	6047.697
#2	3173.911	2653.224	13340.61	6098.352

Sample Name: CCV Acquired: 12/13/2012 15:37:16 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4840290	50.45631	.4804738	.4773880	.4828386	.4890468	.4889334
Stddev	.0017039	.34269	.0032384	.0025422	.0031487	.0020335	.0043398
%RSD	.3520276	.6791794	.6740016	.5325299	.6521268	.4158064	.8876068
#1	.4852339	50.21400	.4827637	.4791856	.4806121	.4876089	.4920021
#2	.4828242	50.69863	.4781839	.4755903	.4850650	.4904847	.4858647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.91412	.4749959	.4978236	.4802109	.4750135	24.88124	49.11598
Stddev	.15880	.0040282	.0035217	.0003401	.0018819	.26213	.21816
%RSD	.6374060	.8480588	.7074157	.0708249	.3961875	1.053523	.4441664
#1	24.80183	.4778443	.5003138	.4799704	.4763443	24.69588	48.96172
#2	25.02641	.4721475	.4953333	.4804514	.4736828	25.06659	49.27024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.26509	4.745796	.4619754	24.57945	.4891016	.4968438	.4703147
Stddev	.07085	.029254	.0029620	.12694	.0035209	.0042747	.0022328
%RSD	.2919773	.6164252	.6411685	.5164561	.7198678	.8603708	.4747549
#1	24.21499	4.725110	.4640699	24.48969	.4915913	.4998665	.4718936
#2	24.31518	4.766482	.4598809	24.66921	.4866120	.4938211	.4687359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/13/2012 15:37:16 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4628135	.4984389	.5071811	.4668471	.4792752	.4936271	4.833400
Stddev	.0032152	.0025604	.0048732	.0002671	.0000783	.0029311	.003068
%RSD	.6947137	.5136762	.9608430	.0572072	.0163272	.5937872	.0634736
#1	.4650870	.5002494	.5106270	.4670360	.4793306	.4956997	4.835569
#2	.4605400	.4966285	.5037352	.4666583	.4792199	.4915545	4.831230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5046367
Stddev	.0043363
%RSD	.8592979
#1	.5077030
#2	.5015705
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2873.399	2608.796	12747.95	6058.453
Stddev	15.052	12.587	8.97	27.201
%RSD	.5238376	.4824821	.0703427	.4489827
#1	2862.755	2599.896	12741.61	6077.687
#2	2884.042	2617.696	12754.29	6039.218

Sample Name: CCB Acquired: 12/13/2012 15:41:13 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001476	-.009986	.0006925	-.000140	-.000479	-.000024	-.001218
Stddev	.0001007	.003441	.0001871	.000190	.000070	.000088	.002013
%RSD	68.22180	34.46282	27.02186	135.7519	14.50686	367.7641	165.2182
#1	.0002189	-.007552	.0008249	-.000006	-.000430	.000038	.000205
#2	.0000764	-.012419	.0005602	-.000274	-.000528	-.000086	-.002642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.018100	.0000537	-.000164	.0001859	-.000246	.0096829	.0054021
Stddev	.000589	.0001183	.000071	.0001100	.000286	.0386385	.0056293
%RSD	3.254771	220.4754	43.26924	59.15682	116.1886	399.0381	104.2051
#1	-.018517	-.000030	-.000215	.0001082	-.000044	.0370044	.0014216
#2	-.017684	.000137	-.000114	.0002637	-.000449	-.017639	.0093826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.018479	-.000315	.0007167	.0093103	-.001094	-.000715	-.000278
Stddev	.008916	.000081	.0001407	.0015001	.000180	.001079	.000166
%RSD	48.24876	25.61485	19.63594	16.11213	16.44430	150.8780	59.84381
#1	-.012174	-.000372	.0006172	.0082495	-.000967	-.001479	-.000396
#2	-.024783	-.000258	.0008162	.0103710	-.001221	.000048	-.000160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/13/2012 15:41:13 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000615	-.000107	.0006609	-.000045	-.000036	.0008077	.0003263
Stddev	.000938	.000684	.0006295	.000011	.000036	.0004450	.0001443
%RSD	152.4261	637.0941	95.24980	24.79024	98.50953	55.09647	44.21041
#1	-.001278	-.000591	.0002158	-.000053	-.000011	.0004930	.0004283
#2	.000048	.000376	.0011061	-.000037	-.000061	.0011224	.0002243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.007661
Stddev	.000314
%RSD	4.095040
#1	-.007439
#2	-.007883
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3169.573	2667.937	13267.37	6043.883
Stddev	11.889	2.254	9.69	2.271
%RSD	.3750957	.0844870	.0730254	.0375680
#1	3161.166	2666.343	13260.52	6042.277
#2	3177.980	2669.531	13274.22	6045.488

Sample Name: CCV Acquired: 12/13/2012 16:24:40 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4842127	49.84603	.4803056	.4764590	.4790229	.4855757	.4897398
Stddev	.0004763	.36418	.0024791	.0007321	.0039312	.0031812	.0014252
%RSD	.0983717	.7306033	.5161540	.1536634	.8206729	.6551295	.2910134
#1	.4838759	49.58852	.4785526	.4759413	.4762431	.4833263	.4887320
#2	.4845495	50.10354	.4820586	.4769767	.4818026	.4878251	.4907476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.81349	.4762755	.5012663	.4808347	.4731105	24.74630	48.92304
Stddev	.21918	.0005780	.0013771	.0041582	.0005212	.11569	.38400
%RSD	.8833177	.1213480	.2747243	.8647835	.1101736	.4675058	.7849093
#1	24.65851	.4758669	.5002925	.4837750	.4727419	24.66449	48.65151
#2	24.96848	.4766842	.5022400	.4778944	.4734790	24.82810	49.19457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.15855	4.719478	.4645378	24.45097	.4935220	.5001839	.4718757
Stddev	.25028	.035790	.0030495	.16787	.0008299	.0027775	.0007769
%RSD	1.035974	.7583531	.6564674	.6865700	.1681573	.5552891	.1646366
#1	23.98158	4.694170	.4623815	24.33226	.4929351	.4982199	.4724251
#2	24.33552	4.744786	.4666942	24.56967	.4941088	.5021478	.4713264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/13/2012 16:24:40 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4659682	.5025191	.5135054	.4653051	.4781549	.4969810	4.818514
Stddev	.0000136	.0008754	.0021143	.0031385	.0004591	.0043342	.004720
%RSD	.0029171	.1741914	.4117463	.6745105	.0960079	.8721103	.0979609
#1	.4659586	.5019002	.5120103	.4630858	.4778302	.4939162	4.821852
#2	.4659778	.5031381	.5150004	.4675244	.4784795	.5000457	4.815177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5102256
Stddev	.0010767
%RSD	.2110197
#1	.5094643
#2	.5109870
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2867.558	2614.563	12818.59	6094.011
Stddev	12.150	10.952	3.54	34.300
%RSD	.4237161	.4188669	.0276181	.5628434
#1	2876.150	2622.307	12821.09	6118.265
#2	2858.967	2606.819	12816.09	6069.758

Sample Name: CCB Acquired: 12/13/2012 16:28:37 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000030	-.009932	.0017911	-.000521	-.000382	-.000059	-.000936
Stddev	.0001086	.003537	.0006109	.000058	.000198	.000139	.000021
%RSD	3607.733	35.61542	34.10500	11.10777	51.87912	235.9427	2.229295
#1	-.000074	-.012433	.0022230	-.000480	-.000522	-.000157	-.000921
#2	.000080	-.007430	.0013591	-.000562	-.000242	.000039	-.000951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012116	.0000052	-.000059	-.000030	-.000502	-.007193	-.001206
Stddev	.000367	.0000612	.000092	.000682	.000195	.012730	.005435
%RSD	3.028617	1177.619	156.4577	2238.090	38.85001	176.9899	450.6536
#1	-.012376	-.000038	.000006	-.000513	-.000364	.001809	-.005049
#2	-.011857	.000049	-.000124	.000452	-.000640	-.016194	.002637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.020033	-.000410	.0004050	.0045244	-.000441	.0004632	-.000018
Stddev	.006902	.000150	.0003382	.0020482	.000171	.0010299	.000140
%RSD	34.45325	36.70809	83.51139	45.26967	38.86433	222.3627	781.5616
#1	-.015153	-.000516	.0001658	.0059727	-.000320	-.000265	-.000117
#2	-.024914	-.000303	.0006441	.0030761	-.000562	.001191	.000081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/13/2012 16:28:37 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003126	.0014900	-.000266	-.000026	.0000129	.0004820	.0004178
Stddev	.001562	.0000228	.001721	.000006	.0000574	.0006366	.0000555
%RSD	49.96639	1.529463	648.1352	24.05967	444.6953	132.0810	13.28560
#1	-.004230	.0014739	-.001483	-.000030	.0000535	.0000318	.0004571
#2	-.002021	.0015061	.000952	-.000021	-.000028	.0009321	.0003786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.007443
Stddev	.000011
%RSD	.1511714
#1	-.007435
#2	-.007451
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3179.158	2680.593	13354.96	6106.991
Stddev	.940	1.555	15.22	27.891
%RSD	.0295742	.0579955	.1139575	.4567056
#1	3179.823	2679.493	13344.20	6126.713
#2	3178.493	2681.692	13365.72	6087.269

Sample Name: MB 500-172801/1-A Acquired: 12/13/2012 16:35:59 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001348	-.000776	.0000464	-.000071	-.000431	.0001223	.0029519
Stddev	.0001824	.009848	.0005537	.000397	.000092	.0002005	.0003375
%RSD	135.3052	1268.331	1194.305	560.6028	21.39286	163.9563	11.43251
#1	.0000058	.006187	-.000345	-.000351	-.000365	-.000019	.0027133
#2	.0002637	-.007740	.000438	.000210	-.000496	.000264	.0031905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136591	.0001841	-.000155	.0001751	-.000035	-.023575	-.009615
Stddev	.0003485	.0000758	.000013	.0000204	.000345	.000810	.009312
%RSD	2.551608	41.17720	8.197719	11.64019	980.4220	3.433844	96.84428
#1	.0134126	.0002377	-.000146	.0001896	.000209	-.023003	-.003031
#2	.0139055	.0001305	-.000164	.0001607	-.000279	-.024148	-.016200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005523	-.000262	-.000008	.0193022	-.001812	-.000161	.0009163
Stddev	.013134	.000283	.000057	.0021467	.000095	.000130	.0002440
%RSD	237.8206	107.9893	715.8116	11.12163	5.225844	80.88491	26.63142
#1	-.014810	-.000462	.000032	.0177842	-.001879	-.000253	.0007438
#2	.003765	-.000062	-.000048	.0208201	-.001745	-.000069	.0010889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: MB 500-172801/1-A Acquired: 12/13/2012 16:35:59 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001048	.0077544	.0007675	.0000257	.0000275	-.000504	.0003166
Stddev	.000713	.0002859	.0014732	.0000135	.0000592	.000146	.0004554
%RSD	68.02866	3.686961	191.9425	52.40694	215.4917	29.03961	143.8616
#1	-.000544	.0079565	-.000274	.0000353	-.000014	-.000401	.0006386
#2	-.001552	.0075522	.001809	.0000162	.000069	-.000608	-.000005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.006116
Stddev	.000093
%RSD	1.513654
#1	-.006051
#2	-.006182
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3128.718	2647.284	13409.43	6081.772
Stddev	1.559	1.560	16.63	15.919
%RSD	.0498407	.0589277	.1240285	.2617478
#1	3127.615	2646.181	13421.19	6070.515
#2	3129.820	2648.387	13397.67	6093.028

Sample Name: LCS 500-172801/2-A Acquired: 12/13/2012 16:39:14 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0455593	1.970392	.0909454	.8728790	1.929408	.0469391	.4590106
Stddev	.0000445	.007978	.0005645	.0166336	.002486	.0001340	.0073896
%RSD	.0976840	.4049018	.6206735	1.905604	.1288442	.2855408	1.609900
#1	.0455278	1.964750	.0913445	.8846407	1.927650	.0468444	.4642358
#2	.0455907	1.976033	.0905462	.8611172	1.931166	.0470339	.4537853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.823136	.0456232	.4706208	.1867970	.2316352	.9933153	9.679084
Stddev	.036220	.0007606	.0104145	.0006110	.0000250	.0025650	.016034
%RSD	.3687166	1.667228	2.212933	.3271135	.0108141	.2582302	.1656527
#1	9.797525	.0461611	.4779850	.1872291	.2316175	.9951291	9.667746
#2	9.848747	.0450854	.4632566	.1863650	.2316529	.9915016	9.690421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.496602	.4688878	.9289154	9.676058	.4636103	.0962928	.4575244
Stddev	.030242	.0001702	.0213323	.002113	.0097788	.0028754	.0085822
%RSD	.3184456	.0363101	2.296476	.0218391	2.109272	2.986097	1.875781
#1	9.517986	.4690082	.9439997	9.677552	.4705249	.0983260	.4635929
#2	9.475218	.4687674	.9138312	9.674564	.4566956	.0942596	.4514559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: LCS 500-172801/2-A Acquired: 12/13/2012 16:39:14 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0855179	4.694699	.9379345	.9185479	.9529450	.0932579	.4784204
Stddev	.0034756	.089695	.0238222	.0038146	.0002823	.0022973	.0001981
%RSD	4.064133	1.910552	2.539859	.4152867	.0296219	2.463348	.0414131
#1	.0879755	4.758123	.9547793	.9158506	.9527454	.0948823	.4785605
#2	.0830603	4.631275	.9210896	.9212453	.9531446	.0916334	.4782803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.4586253
Stddev	.0111584
%RSD	2.433006
#1	.4665155
#2	.4507351
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3041.183	2618.336	13056.66	6077.871
Stddev	49.253	36.305	5.74	16.381
%RSD	1.619545	1.386550	.0439808	.2695130
#1	3006.355	2592.665	13060.73	6089.454
#2	3076.010	2644.007	13052.60	6066.288

Sample Name: 500-53164-J-1-A Acquired: 12/13/2012 16:43:13 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002825	.1939785	.0048454	.6459092	.0763386	.0001377	-.005773
Stddev	.0002590	.0105109	.0023352	.0074296	.0003276	.0001799	.000333
%RSD	91.67553	5.418586	48.19442	1.150260	.4291909	130.6200	5.765385
#1	.0000994	.2014108	.0064966	.6406557	.0761070	.0002649	-.005538
#2	.0004657	.1865461	.0031941	.6511628	.0765703	.0000105	-.006008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	160.3242	.0007790	.0024263	.0014325	.0020898	8.896180	6.411962
Stddev	.7181	.0000520	.0000489	.0004967	.0003775	.035675	.029184
%RSD	.4479060	6.670945	2.016550	34.67062	18.06196	.4010157	.4551550
#1	159.8165	.0007423	.0024609	.0010813	.0018229	8.870954	6.391326
#2	160.8320	.0008158	.0023917	.0017837	.0023568	8.921406	6.432599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.54807	.3262261	.8975013	39.23776	.0043684	.0007177	.0038081
Stddev	.09915	.0020599	.0082494	.11033	.0002168	.0014871	.0003328
%RSD	.2276712	.6314277	.9191565	.2811706	4.962773	207.2043	8.739239
#1	43.47796	.3247695	.8916680	39.15975	.0042151	-.000334	.0040434
#2	43.61818	.3276826	.9033345	39.31577	.0045217	.001769	.0035727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-53164-J-1-A Acquired: 12/13/2012 16:43:13 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046644	5.925454	.0043091	.5714323	.0100417	-.001638	.0027993
Stddev	.0002345	.062098	.0006857	.0013604	.0003941	.002714	.0005587
%RSD	5.027100	1.047995	15.91221	.2380646	3.924100	165.6967	19.96014
#1	.0044986	5.881544	.0047939	.5704703	.0097631	.000281	.0024042
#2	.0048302	5.969364	.0038242	.5723942	.0103204	-.003557	.0031944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.001072
Stddev	.000020
%RSD	1.861586
#1	-.001058
#2	-.001086
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2750.700	2434.243	12325.22	5931.322
Stddev	19.571	20.674	21.34	6.816
%RSD	.7114910	.8493166	.1731253	.1149126
#1	2764.539	2448.862	12340.31	5936.142
#2	2736.861	2419.624	12310.14	5926.503

Sample Name: 500-53164-J-2-A Acquired: 12/13/2012 16:47:18 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004844	.2753445	.0061388	.6822104	.0711791	.0000155	-.003615
Stddev	.0003542	.0126854	.0005410	.0008513	.0006029	.0002627	.001019
%RSD	73.13506	4.607085	8.812755	.1247847	.8470311	1697.422	28.18271
#1	.0002339	.2663746	.0065214	.6816084	.0707528	-.000170	-.004336
#2	.0007348	.2843144	.0057563	.6828123	.0716055	.000201	-.002895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	182.9591	.0004438	.0015278	.0003292	.0013291	9.113497	6.160329
Stddev	1.0321	.0000373	.0000822	.0000311	.0003110	.091881	.020019
%RSD	.5641244	8.409973	5.381366	9.434464	23.40014	1.008191	.3249676
#1	182.2292	.0004702	.0014697	.0003511	.0011092	9.048527	6.146174
#2	183.6889	.0004174	.0015860	.0003072	.0015490	9.178467	6.174485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.03378	.4253663	.6438407	41.33265	.0033508	-.000298	.0029367
Stddev	.26589	.0032769	.0007153	.36253	.0005674	.000490	.0004689
%RSD	.5209991	.7703710	.1110967	.8771007	16.93299	164.0691	15.96558
#1	50.84578	.4230491	.6433349	41.07630	.0029496	-.000645	.0032682
#2	51.22180	.4276834	.6443465	41.58900	.0037520	.000048	.0026052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-53164-J-2-A Acquired: 12/13/2012 16:47:18 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021716	6.824152	.0012992	.8759092	.0107393	-.002385	.0014601
Stddev	.0006649	.015434	.0008568	.0003156	.0003986	.000569	.0001600
%RSD	30.61931	.2261696	65.94941	.0360309	3.712028	23.83868	10.95485
#1	.0017014	6.813239	.0006934	.8761324	.0110212	-.002787	.0015732
#2	.0026418	6.835066	.0019051	.8756861	.0104574	-.001983	.0013470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.002860
Stddev	.000238
%RSD	8.333920
#1	-.002691
#2	-.003028
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2745.793	2448.044	12237.16	5853.621
Stddev	2.382	2.836	5.21	11.588
%RSD	.0867509	.1158680	.0425496	.1979668
#1	2744.108	2450.050	12233.48	5861.816
#2	2747.477	2446.039	12240.84	5845.427

Sample Name: 500-53164-J-3-A Acquired: 12/13/2012 16:51:22 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003006	.1681710	-.001821	.4448485	.0558985	.0000136
Stddev	.0003926	.0031993	.001188	.0017985	.0002846	.0000208
%RSD	130.6138	1.902414	65.23434	.4042829	.5090872	153.1491
#1	.0005782	.1659087	-.002660	.4461202	.0560998	.0000282
#2	.0000230	.1704332	-.000981	.4435768	.0556973	-.000001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007500	105.4105	.0008032	.0005094	-.000105	.0017066
Stddev	.000685	.2737	.0001206	.0004879	.000262	.0003004
%RSD	9.129236	.2596757	15.01136	95.77816	249.4801	17.60301
#1	-.007016	105.6040	.0008884	.0001644	.000080	.0019190
#2	-.007984	105.2169	.0007179	.0008543	-.000291	.0014941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4133714	3.025172	54.59384	.0346249	.0592822	226.1346
Stddev	.0368054	.015343	.04864	.0001849	.0001221	1.8030
%RSD	8.903712	.5071862	.0891018	.5341192	.2060075	.7973071
#1	.4393967	3.036021	54.55945	.0347556	.0593685	224.8597
#2	.3873460	3.014323	54.62824	.0344941	.0591958	227.4096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-53164-J-3-A Acquired: 12/13/2012 16:51:22 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000450	-.000527	.0013269	.0014273	7.697892	.0008612
Stddev	.000187	.001743	.0000825	.0011216	.018702	.0023584
%RSD	41.53007	330.5952	6.215789	78.57936	.2429502	273.8639
#1	-.000583	-.001759	.0013852	.0006342	7.711117	.0025288
#2	-.000318	.000705	.0012686	.0022203	7.684668	-.000806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 3.739970	.0074014	-.002526	.0011223	-.005628
Stddev	.015665	.0002632	.000088	.0002240	.000309
%RSD	.4188642	3.556619	3.487227	19.96379	5.486566
#1	3.728893	.0075875	-.002464	.0009638	-.005410
#2	3.751047	.0072152	-.002588	.0012807	-.005847
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.000000				
Low Limit	-.005000				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2670.890	2437.257	12065.91	5861.341
Stddev	13.992	3.577	24.19	17.218
%RSD	.5238808	.1467748	.2004680	.2937496
#1	2660.996	2434.728	12083.02	5849.167
#2	2680.784	2439.787	12048.81	5873.516

Sample Name: 500-53164-J-3-A SD@5 Acquired: 12/13/2012 16:56:32 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002868	.0379332	.0013947	.0912242	.0109506	-.000124	-.001516
Stddev	.0004127	.0111744	.0008618	.0023572	.0001068	.000077	.001022
%RSD	143.8948	29.45810	61.79566	2.583997	.9748175	61.97058	67.40532
#1	-.000005	.0458347	.0020041	.0895574	.0108751	-.000070	-.000794
#2	.000579	.0300317	.0007853	.0928910	.0110261	-.000179	-.002239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.66459	.0001475	-.000007	-.000235	.0002703	.0975970	.6087668
Stddev	.02850	.0001459	.000287	.000328	.0004442	.0199171	.0096440
%RSD	.1315455	98.91642	4137.746	139.4345	164.3104	20.40752	1.584188
#1	21.64444	.0002507	-.000210	-.000467	-.000044	.1116805	.6019474
#2	21.68474	.0000443	.000196	-.000003	.000584	.0835135	.6155861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.05623	.0067918	.0118938	46.31358	-.000618	-.000318	.0008305
Stddev	.03119	.0001226	.0005245	.05594	.000375	.000432	.0003985
%RSD	.2821455	1.805441	4.410094	.1207798	60.67863	135.7595	47.98204
#1	11.07828	.0067051	.0115229	46.27403	-.000883	-.000013	.0011123
#2	11.03417	.0068785	.0122647	46.35313	-.000353	-.000624	.0005487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-53164-J-3-A SD@5 Acquired: 12/13/2012 16:56:32 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001882	1.527827	.0011875	.8333049	.0022392	.0007854	.0003646
Stddev	.000700	.031306	.0004419	.0027943	.0000082	.0007993	.0004245
%RSD	37.19347	2.049052	37.21321	.3353281	.3664778	101.7689	116.4291
#1	-.001387	1.505690	.0008750	.8313290	.0022334	.0013506	.0006648
#2	-.002377	1.549963	.0014999	.8352808	.0022450	.0002202	.0000644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.006368
Stddev	.000114
%RSD	1.796552
#1	-.006449
#2	-.006287
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2996.365	2627.708	12832.95	6052.428
Stddev	55.815	47.960	30.70	12.018
%RSD	1.862770	1.825174	.2392353	.1985698
#1	3035.832	2661.621	12854.66	6060.926
#2	2956.897	2593.795	12811.24	6043.929

Sample Name: 500-53164-J-3-B DU Acquired: 12/13/2012 17:00:39 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001280	.1829683	.0005752	.4361191	.0546808	-.000011
Stddev	.0006490	.0110785	.0002213	.0051693	.0001098	.000038
%RSD	507.0108	6.054885	38.47515	1.185285	.2008762	335.2712
#1	.0005869	.1908020	.0004187	.4324639	.0546031	-.000038
#2	-.000331	.1751346	.0007317	.4397743	.0547584	.000016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005561	102.3904	.0006511	.0007063	-.000391	.0027032
Stddev	.000921	.2597	.0000081	.0003490	.000495	.0001827
%RSD	16.56587	.2536117	1.239721	49.41533	126.3421	6.758413
#1	-.004909	102.2068	.0006568	.0004595	-.000741	.0028324
#2	-.006212	102.5740	.0006454	.0009531	-.000042	.0025740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4564542	2.977979	53.01147	.0374268	.0576118	219.7830
Stddev	.0073055	.015206	.21003	.0001097	.0006714	3.4215
%RSD	1.600485	.5106236	.3962003	.2931676	1.165331	1.556776
#1	.4616200	2.988731	52.86296	.0375044	.0571371	217.3636
#2	.4512885	2.967227	53.15999	.0373493	.0580865	222.2024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-53164-J-3-B DU Acquired: 12/13/2012 17:00:39 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001848	.0011921	.0028698	.0010639	7.585024	.0006498
Stddev	.0003219	.0001186	.0002473	.0015103	.081588	.0003182
%RSD	174.1997	9.951049	8.617104	141.9599	1.075640	48.96660
#1	-.000043	.0012760	.0026950	-.000004	7.527333	.0004248
#2	.000412	.0011082	.0030447	.002132	7.642715	.0008748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 3.660024	.0077317	-.002276	.0011596	-.005382
Stddev	.009844	.0003074	.000184	.0003381	.000039
%RSD	.2689515	3.976277	8.090553	29.15480	.7321444
#1	3.666984	.0079491	-.002406	.0009206	-.005410
#2	3.653063	.0075143	-.002146	.0013987	-.005354
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.000000				
Low Limit	-.005000				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2671.971	2420.841	12087.18	5894.059
Stddev	24.128	21.529	3.14	4.311
%RSD	.9029869	.8893215	.0259431	.0731495
#1	2689.032	2436.064	12084.97	5897.107
#2	2654.911	2405.618	12089.40	5891.010

Sample Name: 500-53164-J-3-C MS Acquired: 12/13/2012 17:05:50 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0473140	2.173047	.0945211	1.306611	1.947469	.0465052
Stddev	.0024848	.040820	.0022447	.003210	.003651	.0000104
%RSD	5.251719	1.878451	2.374788	.2456524	.1874973	.0224371
#1	.0455570	2.201911	.0929338	1.304342	1.950051	.0465125
#2	.0490710	2.144184	.0961083	1.308881	1.944887	.0464978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4848536	106.9009	.0470611	.4844827	.1853192	.2425614
Stddev	.0029307	.0612	.0003392	.0009990	.0102379	.0142238
%RSD	.6044508	.0572363	.7206833	.2062058	5.524449	5.863993
#1	.4827813	106.9442	.0468212	.4837763	.1780799	.2325037
#2	.4869259	106.8576	.0473009	.4851892	.1925584	.2526191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.366763	12.57264	60.01498	.4850100	.9786943	220.5990
Stddev	.000681	.01823	.00192	.0004688	.0038354	.6984
%RSD	.0498083	.1449959	.0031953	.0966597	.3918914	.3165884
#1	1.367244	12.58553	60.01633	.4846785	.9759822	220.1051
#2	1.366281	12.55975	60.01362	.4853415	.9814063	221.0928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-53164-J-3-C MS Acquired: 12/13/2012 17:05:50 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4759732	.0967507	.4720496	.0914139	12.06085	.9846367
Stddev	.0015386	.0005940	.0016043	.0000705	.02557	.0011680
%RSD	.3232489	.6139682	.3398624	.0771798	.2119780	.1186215
#1	.4748852	.0971707	.4709152	.0914637	12.04278	.9838108
#2	.4770611	.0963306	.4731841	.0913640	12.07893	.9854626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 4.385675	.9637095	.0884479	.4840107	.4787396
Stddev	.168889	.0544893	.0002838	.0276528	.0002058
%RSD	3.850920	5.654125	.3208212	5.713251	.0429807
#1	4.266252	.9251797	.0882472	.4644572	.4785941
#2	4.505097	1.002239	.0886486	.5035641	.4788851
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.000000				
Low Limit	-.005000				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2644.883	2421.686	11870.43	5933.200
Stddev	.894	3.291	442.75	9.508
%RSD	.0338103	.1358885	3.729847	.1602487
#1	2644.251	2424.013	12183.50	5926.477
#2	2645.515	2419.359	11557.36	5939.923

Sample Name: 500-53164-J-3-D MSD Acquired: 12/13/2012 17:10:50 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0478655	2.266713	.1004464	1.342425	1.991605	.0480430
Stddev	.0004777	.064114	.0017882	.001035	.039111	.0006742
%RSD	.9979221	2.828498	1.780233	.0770630	1.963802	1.403271
#1	.0475277	2.221378	.1017108	1.343157	1.963949	.0475663
#2	.0482032	2.312049	.0991820	1.341694	2.019261	.0485198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5000042	110.8671	.0481880	.4949807	.1868375	.2470145
Stddev	.0021576	2.0085	.0002603	.0033319	.0009187	.0000489
%RSD	.4315183	1.811612	.5400835	.6731313	.4916857	.0197807
#1	.5015299	109.4469	.0483720	.4973367	.1861879	.2469799
#2	.4984785	112.2873	.0480039	.4926247	.1874871	.2470490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.429572	12.94535	62.03404	.5037028	1.001284	228.6199
Stddev	.026971	.24360	1.19049	.0091843	.001989	3.7208
%RSD	1.886650	1.881756	1.919085	1.823355	.1986405	1.627490
#1	1.410500	12.77310	61.19224	.4972085	1.002691	225.9889
#2	1.448643	13.11760	62.87584	.5101971	.999878	231.2509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-53164-J-3-D MSD Acquired: 12/13/2012 17:10:50 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4847680	.1015413	.4822343	.0916898	12.40493	1.002198
Stddev	.0016830	.0021025	.0009722	.0033319	.01098	.008330
%RSD	.3471695	2.070617	.2016097	3.633892	.0885391	.8311255
#1	.4859580	.1030280	.4815468	.0940458	12.41270	1.008088
#2	.4835779	.1000546	.4829217	.0893337	12.39716	.996308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 4.460574	.9714299	.0915857	.4879148	.4918097
Stddev	.017268	.0000314	.0012492	.0018469	.0061869
%RSD	.3871226	.0032321	1.363944	.3785265	1.257987
#1	4.472784	.9714521	.0907024	.4892207	.4961845
#2	4.448364	.9714077	.0924690	.4866088	.4874349
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.000000				
Low Limit	-.005000				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2648.235	2423.046	12031.64	5878.276
Stddev	11.208	2.966	13.28	69.660
%RSD	.4232164	.1224236	.1103903	1.185035
#1	2640.310	2420.948	12022.25	5927.532
#2	2656.160	2425.143	12041.03	5829.019

Sample Name: CCV Acquired: 12/13/2012 17:15:50 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4819539	50.21082	.4791417	.4760595	.4770166	.4869409	.4872455
Stddev	.0015371	.23775	.0017927	.0011017	.0029875	.0020181	.0012589
%RSD	.3189325	.4735024	.3741542	.2314264	.6262840	.4144347	.2583665
#1	.4830408	50.04271	.4804094	.4752804	.4749041	.4855140	.4881356
#2	.4808670	50.37894	.4778741	.4768385	.4791290	.4883679	.4863553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.90367	.4746685	.4978099	.4800379	.4720348	24.77906	48.69794
Stddev	.10560	.0001247	.0000879	.0018312	.0001904	.07389	.23344
%RSD	.4240528	.0262658	.0176530	.3814684	.0403349	.2981956	.4793599
#1	24.82900	.4747567	.4977478	.4813327	.4721694	24.72682	48.53287
#2	24.97834	.4745804	.4978721	.4787430	.4719002	24.83131	48.86301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.14170	4.723819	.4626880	24.28963	.4892487	.4982186	.4701438
Stddev	.11576	.027640	.0006966	.13582	.0001231	.0010700	.0016067
%RSD	.4795092	.5851291	.1505469	.5591747	.0251598	.2147728	.3417429
#1	24.05984	4.704274	.4631806	24.19359	.4893358	.4974619	.4690077
#2	24.22356	4.743363	.4621955	24.38567	.4891617	.4989752	.4712799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/13/2012 17:15:50 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4618711	.5011207	.5066066	.4663172	.4758620	.4927348	4.814287
Stddev	.0027772	.0010850	.0000440	.0017181	.0020489	.0005981	.007466
%RSD	.6012977	.2165113	.0086879	.3684378	.4305742	.1213763	.1550804
#1	.4599073	.5003535	.5065755	.4675321	.4773108	.4931577	4.819566
#2	.4638349	.5018879	.5066377	.4651024	.4744132	.4923119	4.809007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5050957
Stddev	.0023692
%RSD	.4690595
#1	.5067710
#2	.5034204
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.045	2610.579	12788.21	6041.627
Stddev	4.222	6.316	34.70	16.122
%RSD	.1468844	.2419522	.2713474	.2668464
#1	2877.030	2615.046	12763.68	6053.027
#2	2871.060	2606.113	12812.75	6030.227

Sample Name: CCB Acquired: 12/13/2012 17:19:47 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001505	-.008708	.0000358	.0004339	-.000371	-.000065	-.000791
Stddev	.0001900	.010305	.0016953	.0000609	.000127	.000013	.001841
%RSD	126.2354	118.3499	4737.104	14.04781	34.19708	19.60685	232.9112
#1	.0002848	-.001421	-.001163	.0004770	-.000460	-.000074	-.002093
#2	.0000162	-.015995	.001235	.0003908	-.000281	-.000056	.000511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.015126	-.000070	-.000160	-.000357	-.000661	-.003878	.0087913
Stddev	.001404	.000016	.000086	.000064	.000108	.019474	.0000229
%RSD	9.283212	22.20315	53.45855	17.77644	16.38989	502.1335	.2610388
#1	-.014133	-.000059	-.000221	-.000313	-.000737	.009892	.0088075
#2	-.016119	-.000081	-.000100	-.000402	-.000584	-.017649	.0087751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012908	-.000302	.0008513	.0221578	-.001067	.0001729	.0008650
Stddev	.005111	.000188	.0002317	.0031214	.000536	.0003861	.0015339
%RSD	39.59972	62.35469	27.21897	14.08724	50.27998	223.3401	177.3208
#1	-.016522	-.000169	.0010152	.0199507	-.000687	.0004459	.0019496
#2	-.009293	-.000435	.0006875	.0243650	-.001446	-.000100	-.000220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/13/2012 17:19:47 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001588	.0039902	.0009599	.0000683	-.000023	.0013784	.0004221
Stddev	.002061	.0011671	.0003808	.0000285	.000028	.0000469	.0001336
%RSD	129.7791	29.24963	39.66840	41.79294	122.5621	3.404843	31.64812
#1	-.000131	.0031649	.0006906	.0000885	-.000042	.0013453	.0005166
#2	-.003045	.0048155	.0012291	.0000481	-.000003	.0014116	.0003277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.007528
Stddev	.000066
%RSD	.8765656
#1	-.007575
#2	-.007482
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3130.901	2645.397	13446.41	6072.301
Stddev	28.131	24.232	54.13	31.274
%RSD	.8985108	.9160250	.4025345	.5150291
#1	3111.009	2628.262	13408.14	6094.415
#2	3150.793	2662.532	13484.69	6050.187

Sample Name: 500-53164-J-4-A Acquired: 12/13/2012 17:23:02 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000061	.7247426	.0013650	1.190377	.1073635	-.000012	-.004969
Stddev	.000385	.0051819	.0010957	.003813	.0007693	.000071	.001634
%RSD	635.2506	.7149977	80.27020	.3203459	.7165725	608.9103	32.88868
#1	-.000333	.7284067	.0021397	1.187680	.1068195	-.000062	-.006125
#2	.000212	.7210784	.0005902	1.193073	.1079075	.000039	-.003813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	197.3018	.0010230	.0051604	.0010623	.0158828	1.284928	18.43597
Stddev	2.0510	.0000202	.0001896	.0008461	.0000082	.016666	.11255
%RSD	1.039546	1.972061	3.673659	79.64605	.0514521	1.297026	.6105089
#1	195.8515	.0010087	.0050264	.0016606	.0158886	1.273143	18.35638
#2	198.7521	.0010372	.0052945	.0004640	.0158770	1.296712	18.51556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.01702	.3647734	.0028645	18.88842	.0112964	.0043983	.0034983
Stddev	.57376	.0037348	.0000622	.16719	.0007510	.0008607	.0006241
%RSD	1.124644	1.023860	2.172177	.8851657	6.648187	19.57008	17.83880
#1	50.61131	.3621325	.0029085	18.77020	.0107653	.0050069	.0039395
#2	51.42273	.3674143	.0028205	19.00665	.0118274	.0037896	.0030570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-53164-J-4-A Acquired: 12/13/2012 17:23:02 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032572	7.331801	.0014385	1.561107	.0252833	-.001384	.0013926
Stddev	.0010944	.027226	.0013666	.005065	.0016634	.000136	.0005073
%RSD	33.59927	.3713460	94.99777	.3244388	6.579092	9.802310	36.42459
#1	.0024834	7.312549	.0024048	1.557526	.0241071	-.001288	.0010340
#2	.0040311	7.351053	.0004722	1.564688	.0264595	-.001480	.0017513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	.0517898
Stddev	.0005877
%RSD	1.134832
#1	.0522054
#2	.0513743
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2738.156	2426.417	12244.04	5841.105
Stddev	6.297	2.286	28.78	32.869
%RSD	.2299887	.0942267	.2350620	.5627200
#1	2733.703	2428.033	12264.39	5864.347
#2	2742.609	2424.800	12223.69	5817.863

Sample Name: 500-53164-J-5-A Acquired: 12/13/2012 17:27:09 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005313	.0785948	.0003638	4.709967	.0387107	.0000826
Stddev	.0004556	.0053803	.0012779	.014628	.0003010	.0000740
%RSD	85.74835	6.845586	351.3031	.3105701	.7775435	89.67221
#1	.0008535	.0747904	-.000540	4.699624	.0389236	.0001349
#2	.0002092	.0823993	.001267	4.720311	.0384979	.0000302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006989	226.4451	.0011449	.0008429	-.000092	.0232598
Stddev	.001394	.4861	.0000554	.0001117	.000254	.0001802
%RSD	19.95062	.2146550	4.841513	13.24589	276.4056	.7747659
#1	-.007975	226.1014	.0011840	.0007640	.000088	.0231324
#2	-.006003	226.7888	.0011056	.0009218	-.000272	.0233872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1942045	16.83270	68.76605	.1752174	.1312841	191.5507
Stddev	.0171873	.05548	.40125	.0003501	.0002916	2.0609
%RSD	8.850115	.3295745	.5835012	.1998005	.2220982	1.075883
#1	.2063578	16.87192	69.04978	.1754650	.1310779	193.0080
#2	.1820512	16.79347	68.48232	.1749699	.1314903	190.0935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-53164-J-5-A Acquired: 12/13/2012 17:27:09 Type: Unk
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026643	.0116789	.0032207	.0016505	7.446342	.0009545
Stddev	.0000380	.0019789	.0006440	.0017421	.019927	.0001605
%RSD	1.424443	16.94450	19.99701	105.5508	.2676085	16.81415
#1	.0026375	.0102796	.0036761	.0004186	7.432251	.0008410
#2	.0026911	.0130782	.0027653	.0028824	7.460432	.0010680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 3.168522	.0049344	-.002356	.0007602	.1654514
Stddev	.008664	.0001491	.000222	.0000305	.0004417
%RSD	.2734337	3.022296	9.410814	4.009061	.2669968
#1	3.174648	.0050399	-.002512	.0007817	.1657637
#2	3.162395	.0048290	-.002199	.0007386	.1651390
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.000000				
Low Limit	-.005000				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2605.278	2373.014	11907.15	5828.544
Stddev	3.611	6.147	20.14	44.368
%RSD	.1385965	.2590383	.1691226	.7612247
#1	2607.831	2377.361	11892.91	5797.171
#2	2602.724	2368.668	11921.39	5859.918

Sample Name: CCV Acquired: 12/13/2012 17:31:27 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4785481	50.34650	.4831679	.4813522	.4798785	.4845404	.4898664
Stddev	.0009952	.11870	.0082982	.0065093	.0011139	.0016581	.0078762
%RSD	.2079595	.2357611	1.717463	1.352305	.2321121	.3422026	1.607831
#1	.4792518	50.26257	.4773002	.4767494	.4790908	.4857129	.4842970
#2	.4778444	50.43043	.4890356	.4859550	.4806661	.4833680	.4954357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.74424	.4740534	.4963259	.4776128	.4700516	24.71619	48.90041
Stddev	.09890	.0076543	.0068868	.0006486	.0007211	.03820	.03846
%RSD	.3996785	1.614646	1.387554	.1357968	.1534112	.1545630	.0786505
#1	24.81417	.4686410	.4914562	.4780714	.4705615	24.68918	48.87322
#2	24.67431	.4794658	.5011956	.4771542	.4695417	24.74321	48.92761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.10519	4.717630	.4638194	24.43289	.4917844	.4971251	.4717171
Stddev	.10347	.009674	.0074510	.07146	.0063374	.0082040	.0085009
%RSD	.4292510	.2050650	1.606448	.2924855	1.288656	1.650281	1.802116
#1	24.17836	4.724471	.4585508	24.38236	.4873031	.4913240	.4657060
#2	24.03203	4.710789	.4690881	24.48342	.4962656	.5029261	.4777281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 12/13/2012 17:31:27 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4677695	.5039670	.5038449	.4661615	.4743260	.4928415	4.794956
Stddev	.0073516	.0093203	.0051990	.0013412	.0004250	.0073212	.009869
%RSD	1.571618	1.849388	1.031859	.2877188	.0895985	1.485513	.2058210
#1	.4625712	.4973766	.5001687	.4671099	.4746265	.4876646	4.801934
#2	.4729679	.5105575	.5075211	.4652131	.4740255	.4980184	4.787978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Zn2062
Units	ppm
Avg	.5032003
Stddev	.0067055
%RSD	1.332561
#1	.4984588
#2	.5079418
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.700	2602.080	12850.97	6104.811
Stddev	31.084	29.621	25.98	10.693
%RSD	1.081278	1.138367	.2021365	.1751491
#1	2896.679	2623.025	12832.60	6097.251
#2	2852.720	2581.134	12869.34	6112.372

Sample Name: CCB Acquired: 12/13/2012 17:35:25 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000178	-.000783	-.000235	.0019950	-.000575	.0000542	-.001467
Stddev	.000090	.004975	.001665	.0001330	.000114	.0000249	.000465
%RSD	50.44251	635.7014	708.1631	6.668754	19.89036	45.99180	31.71488
#1	-.000114	.002735	-.001413	.0020890	-.000494	.0000718	-.001138
#2	-.000241	-.004301	.000942	.0019009	-.000655	.0000366	-.001796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.018821	.0000632	-.000173	-.000439	-.000373	.0025535	-.016083
Stddev	.000642	.0000189	.000349	.000252	.000163	.0442167	.003042
%RSD	3.409819	29.93236	201.7336	57.26511	43.74256	1731.626	18.91315
#1	-.018368	.0000765	.000074	-.000617	-.000257	-.028712	-.018234
#2	-.019275	.0000498	-.000420	-.000261	-.000488	.033819	-.013932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007329	-.000171	.0007567	.0156494	-.001146	-.000575	.0005226
Stddev	.013279	.000256	.0001549	.0007324	.000425	.000514	.0009888
%RSD	181.1762	149.4842	20.46268	4.680266	37.08257	89.34954	189.2314
#1	.002060	-.000352	.0008662	.0151315	-.000845	-.000212	-.000177
#2	-.016719	.000010	.0006472	.0161673	-.001446	-.000938	.001222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 12/13/2012 17:35:25 Type: QC
Method: P6121312A Mode: CONC Corr. Factor: 1.000000
User: smithtd analytical run: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008467	.0042775	.0009671	-.000018	-.000087	.0018587	-.000102
Stddev	.0016915	.0011025	.0001360	.000017	.000078	.0004546	.000102
%RSD	199.7682	25.77399	14.06536	92.14003	89.91102	24.45664	100.3448
#1	.0020428	.0034980	.0010633	-.000006	-.000143	.0021802	-.000174
#2	-.000349	.0050571	.0008709	-.000030	-.000032	.0015373	-.000029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	-.007728
Stddev	.000065
%RSD	.8461386
#1	-.007774
#2	-.007682
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3155.100	2668.138	13326.44	6104.090
Stddev	1.548	5.940	377.30	43.549
%RSD	.0490504	.2226240	2.831193	.7134394
#1	3156.194	2672.338	13593.23	6073.296
#2	3154.006	2663.938	13059.66	6134.884

Metals Worksheet

Batch Number: 500-173014
Method: 245.1
Analyst: Bills, Brandon J

Date Open: Dec 14 2012 8:30AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M11FSTKHG_00001	M12ASTKHG_00001
blank						
0.2ppb						
0.5ppb						
1.0ppb						
3.0ppb						
5.0ppb						
ICV~500-173014/7		7470A		25 mL	0.00005 mL	
ICB~500-173014/8		7470A				
CRA~500-173014/9		7470A		25 mL		0.000005 mL
MB~500-172895/7-A		7470A				
LCS~500-172895/8-A		7470A				
680-85178-B-9-C		7470A	T			
680-85178-B-10-C		7470A	T			
680-85205-A-1-G			T			
680-85205-A-1-H~DU			T			
680-85205-A-1-I~MS			T			
680-85205-A-1-J~MSD			T			
680-85205-A-2-C		7470A	T			
CCV~500-173014/19		7470A		25 mL	0.000025 mL	
CCB~500-173014/20		7470A				
680-85205-A-3-C		7470A	T			
680-85205-A-4-C		7470A	T			
680-85205-A-5-C		7470A	T			
680-85205-A-6-C		7470A	T			
680-85205-A-7-C		7470A	T			

Metals Worksheet

Batch Number: 500-173014
Method: 245.1
Analyst: Bills, Brandon J

Date Open: Dec 14 2012 8:30AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M11FSTKHG_00001	M12ASTKHG_00001
680-85205-A-8-C		7470A	T			
680-85205-A-9-C		7470A	T			
680-85205-A-10-C		7470A	T			
680-85205-A-11-C		7470A	T			
680-85205-A-12-C		7470A	T			
CCV~500-173014/31		7470A		25 mL	0.000025 mL	
CCB~500-173014/32		7470A				
680-85298-B-1-B		7470A	T			
680-85347-B-2-C		7470A	T			
680-85347-B-3-E		7470A	T			
680-85388-B-4-E		7470A	T			
MB~500-172866/7-A		7470A				
LCS~500-172866/8-A		7470A				
500-53171-D-3-B		7470A	T			
500-53164-J-1-B		7470A	T			
500-53164-J-2-B		7470A	T			
500-53164-J-3-E			T			
CCV~500-173014/43		7470A		25 mL	0.000025 mL	
CCB~500-173014/44		7470A				
500-53164-J-3-F~DU			T			
500-53164-J-3-G~MS			T			
500-53164-J-3-H~MSD			T			
500-53164-J-4-B		7470A	T			
500-53164-J-5-B		7470A	T			
LB~500-172749/1-C		7470A				

Metals Worksheet

Batch Number: 500-173014
Method: 245.1
Analyst: Bills, Brandon J

Date Open: Dec 14 2012 8:30AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M11FSTKHG_00001	M12ASTKHG_00001
500-53150-A-2-D		7470A	P			
500-53150-A-3-D		7470A	P			
500-53150-A-4-F		7470A	P			
500-53150-A-5-D		7470A	P			
CCV~500-173014/5 5		7470A		25 mL	0.000025 mL	
CCB~500-173014/5 6		7470A				
500-53150-A-6-D		7470A	P			
500-53150-A-7-D		7470A	P			
500-53150-A-8-D		7470A	P			
500-53120-A-1-E		7470A	P			
680-85298-A-1-E		7470A	D			
680-85347-A-2-J		7470A	D			
680-85347-A-3-J		7470A	D			
680-85388-A-4-F		7470A	D			
680-85178-A-9-F		7470A	D			
680-85178-A-10-J		7470A	D			
CCV~500-173014/6 7		7470A		25 mL	0.000025 mL	
CCB~500-173014/6 8		7470A				
MB~500-172865/7-A		7470A				
LCS~500-172865/8-A		7470A				
500-53159-D-1-E		7470A	T			
500-53159-D-2-B			T			
500-53159-D-2-C~DU			T			
500-53159-D-2-D~MS			T			
500-53159-D-2-E~MSD			T			

Metals Worksheet

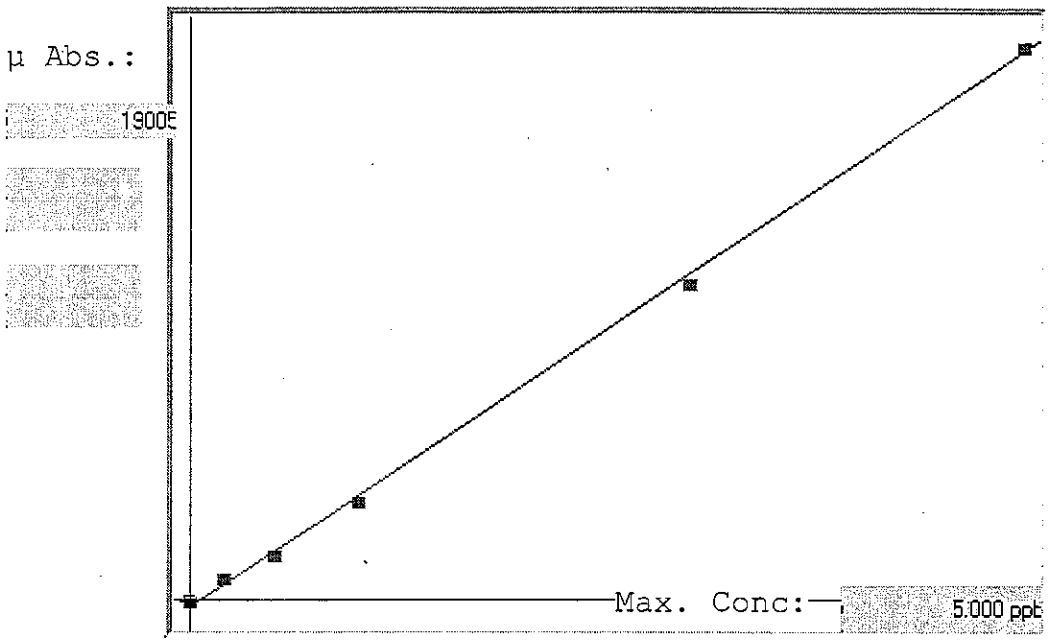
Batch Number: 500-173014
Method: 245.1
Analyst: Bills, Brandon J

Date Open: Dec 14 2012 8:30AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M11FSTKHG_00001	M12ASTKHG_00001
500-53159-D-3-B		7470A	T			
500-53159-D-4-B		7470A	T			
500-53159-D-5-B		7470A	T			
CCV~500-173014/79		7470A		25 mL	0.000025 mL	
CCB~500-173014/80		7470A				
500-53159-D-6-B		7470A	T			
500-53159-D-7-B		7470A	T			
500-53159-D-8-B		7470A	T			
500-53159-D-9-B		7470A	T			
500-53159-D-10-B		7470A	T			
500-53159-D-11-B		7470A	T			
500-53159-D-12-B		7470A	T			
500-53159-D-13-B		7470A	T			
500-53159-D-14-B		7470A	T			
500-53159-D-15-B		7470A	T			
CCV~500-173014/91		7470A		25 mL	0.000025 mL	
CCB~500-173014/92		7470A				

Hg

Linear



A= 0.0000e+000

B= 2.6273e-004

C= 6.4851e-002

Rho= 0.9995000

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.047	0.047	-67	0.000	-67				
0.2ppb	0.200	0.258	0.058	737	0.0 %	737				
0.5ppb	0.500	0.467	-0.033	1530	0.0 %	1530				
1.0ppb	1.000	0.957	-0.043	3394	0.0 %	3394				
3.0ppb	3.000	2.913	-0.087	10840	0.0 %	10840				
5.0ppb	5.000	5.058	0.058	19005	0.0 %	19005				

Brandon Bills 12-14-12

173014 / 172895
172866
172865

Brandon Bills 12-14-12 121412RA

Method: Hg Operator: Admin Date of Analysis: 14 Dec 2012 08:30:33

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
S	blank - 1	-	-67	ppb	14 Dec 2012 08:30:34	44.0000	347
S	0.2ppb - 1	-	737	ppb	14 Dec 2012 08:32:26	44.0000	348
S	0.5ppb - 1	-	1530	ppb	14 Dec 2012 08:34:18	44.0000	349
S	1.0ppb - 1	-	3394	ppb	14 Dec 2012 08:36:13	44.0000	350
S	3.0ppb - 1	-	10840	ppb	14 Dec 2012 08:38:20	44.0000	351
S	5.0ppb - 1	-	19005	ppb	14 Dec 2012 08:40:39	44.0000	352
U	ICV - 1	1.9239	7076	ppb	14 Dec 2012 08:43:48	44.0000	353
U	ICB - 1	-0.0573	-465	ppb	14 Dec 2012 08:45:51	44.0000	354
U	CRA - 1	0.2561	728	ppb	14 Dec 2012 08:48:18	44.0000	355
U	mb 500-172895/7-a - 1	-0.0515	-443	ppb	14 Dec 2012 08:50:08	44.0000	356
U	lcs 500-172895/8-a - 1	2.0056	7387	ppb	14 Dec 2012 08:52:02	44.0000	357
U	680-85178-b-9-c - 1	-0.0492	-434	ppb	14 Dec 2012 08:53:52	44.0000	358
U	680-85178-b-10-c - 1	0.0630	-7	ppb	14 Dec 2012 08:56:18	44.0000	359
U	680-85205-a-1-g - 1	0.0677	11	ppb	14 Dec 2012 08:58:09	44.0000	360
U	680-85205-a-1-h du - 1	0.0575	-28	ppb	14 Dec 2012 09:00:00	44.0000	361
U	680-85205-a-1-i ms - 1	0.8617	3033	ppb	14 Dec 2012 09:01:51	44.0000	362
U	680-85205-a-1-j msd - 1	0.8139	2851	ppb	14 Dec 2012 09:03:42	44.0000	363
U	680-85205-a-2-c - 1	-0.0463	-423	ppb	14 Dec 2012 09:05:56	44.0000	364
U	CCV - 1	1.0590	3784	ppb	14 Dec 2012 09:08:13	44.0000	365
U	CCB - 1	-0.0610	-479	ppb	14 Dec 2012 09:10:04	44.0000	366
U	680-85205-a-3-c - 1	0.0638	-4	ppb	14 Dec 2012 09:12:19	44.0000	367
U	680-85205-a-4-c - 1	0.0898	95	ppb	14 Dec 2012 09:14:10	44.0000	368
U	680-85205-a-5-c - 1	0.0714	25	ppb	14 Dec 2012 09:16:01	44.0000	369
U	680-85205-a-6-c - 1	0.2330	640	ppb	14 Dec 2012 09:17:52	44.0000	370
U	680-85205-a-7-c - 1	0.5958	2021	ppb	14 Dec 2012 09:19:43	44.0000	371
U	680-85205-a-8-c - 1	-0.0174	-313	ppb	14 Dec 2012 09:21:37	44.0000	372
U	680-85205-a-9-c - 1	0.0483	-63	ppb	14 Dec 2012 09:24:00	44.0000	373
U	680-85205-a-10-c - 1	0.0501	-56	ppb	14 Dec 2012 09:25:52	44.0000	374
U	680-85205-a-11-c - 1	0.0756	41	ppb	14 Dec 2012 09:27:43	44.0000	375
U	680-85205-a-12-c - 1	0.0488	-61	ppb	14 Dec 2012 09:29:35	44.0000	376
U	CCV - 1	1.0343	3690	ppb	14 Dec 2012 09:31:27	44.0000	377
U	CCB - 1	-0.0555	-458	ppb	14 Dec 2012 09:33:18	44.0000	378
U	680-85298-b-1-b - 1	0.0672	9	ppb	14 Dec 2012 09:35:34	44.0000	379
U	680-85347-b-2-c - 1	0.0593	-21	ppb	14 Dec 2012 09:37:25	44.0000	380
U	680-85347-b-3-e - 1	0.0672	9	ppb	14 Dec 2012 09:39:16	44.0000	381
U	680-85388-b-4-e - 1	0.0651	1	ppb	14 Dec 2012 09:41:07	44.0000	382
U	mb 500-172866/7-a - 1	0.0609	-15	ppb	14 Dec 2012 09:42:58	44.0000	383
U	lcs 500-172866/8-a - 1	2.0784	7664	ppb	14 Dec 2012 09:44:49	44.0000	384
U	500-53171-d-3-b - 1	-0.0360	-384	ppb	14 Dec 2012 09:46:40	44.0000	385
U	500-53164-j-1-b - 1	0.0604	-17	ppb	14 Dec 2012 09:49:09	44.0000	386
U	500-53164-j-2-b - 1	0.0706	22	ppb	14 Dec 2012 09:51:00	44.0000	387
U	500-53164-j-3-e - 1	0.0627	-8	ppb	14 Dec 2012 09:52:52	44.0000	388
U	CCV - 1	1.0877	3893	ppb	14 Dec 2012 09:54:44	44.0000	389
U	CCB - 1	-0.0429	-410	ppb	14 Dec 2012 09:56:35	44.0000	390
U	500-53164-j-3-f du - 1	0.0643	-2	ppb	14 Dec 2012 09:58:53	44.0000	391
U	500-53164-j-3-g ms - 1	0.8044	2815	ppb	14 Dec 2012 10:00:44	44.0000	392
U	500-53164-j-3-h msd - 1	0.7477	2599	ppb	14 Dec 2012 10:02:35	44.0000	393
U	500-53164-j-4-b - 1	-0.0576	-466	ppb	14 Dec 2012 10:04:48	44.0000	394
U	500-53164-j-5-b - 1	0.1048	152	ppb	14 Dec 2012 10:07:01	44.0000	395
U	lb 500-172749/1-c - 1	0.0320	-125	ppb	14 Dec 2012 10:08:52	44.0000	396
U	500-53150-a-2-d - 1	0.0633	-6	ppb	14 Dec 2012 10:10:44	44.0000	397
U	500-53150-a-3-d - 1	0.0641	-3	ppb	14 Dec 2012 10:12:35	44.0000	398
U	500-53150-a-4-f - 1	0.0667	7	ppb	14 Dec 2012 10:14:26	44.0000	399
U	500-53150-a-5-d - 1	0.0677	11	ppb	14 Dec 2012 10:16:18	44.0000	400
U	CCV - 1	1.0159	3620	ppb	14 Dec 2012 10:18:10	44.0000	401
U	CCB - 1	-0.0492	-434	ppb	14 Dec 2012 10:20:01	44.0000	402
U	500-53150-a-6-d - 1	0.0651	1	ppb	14 Dec 2012 10:22:19	44.0000	403
U	500-53150-a-7-d - 1	0.0712	24	ppb	14 Dec 2012 10:24:10	44.0000	404
U	500-53150-a-8-d - 1	0.0612	-14	ppb	14 Dec 2012 10:26:01	44.0000	405
U	500-53120-a-1-e - 1	0.0664	6	ppb	14 Dec 2012 10:27:52	44.0000	406
U	680-85298-a-1-e - 1	0.0680	12	ppb	14 Dec 2012 10:29:43	44.0000	407
U	680-85347-a-2-j - 1	0.0656	3	ppb	14 Dec 2012 10:31:34	44.0000	408
U	680-85347-a-3-j - 1	0.0638	-4	ppb	14 Dec 2012 10:33:25	44.0000	409
U	680-85388-a-4-f - 1	0.0620	-11	ppb	14 Dec 2012 10:35:16	44.0000	410
U	680-85178-a-9-f - 1	0.0654	2	ppb	14 Dec 2012 10:37:07	44.0000	411
U	680-85178-a-10-j - 1	0.0649	0	ppb	14 Dec 2012 10:38:59	44.0000	412
U	CCV - 1	1.0451	3731	ppb	14 Dec 2012 10:40:51	44.0000	413
U	CCB - 1	-0.0458	-421	ppb	14 Dec 2012 10:42:42	44.0000	414
U	mb 500-172865/ - 1	0.0646	-1	ppb	14 Dec 2012 10:44:59	44.0000	415
U	lcs 500-172865/8-a - 1	2.1281	7853	ppb	14 Dec 2012 10:46:50	44.0000	416
U	500-53159-d-1-e - 1	-0.0473	-427	ppb	14 Dec 2012 10:48:41	44.0000	417
U	500-53159-d-2-b - 1	0.0557	-35	ppb	14 Dec 2012 10:51:10	44.0000	418
U	500-53159-d-2-c du - 1	0.0612	-14	ppb	14 Dec 2012 10:53:01	44.0000	419

121412RA

Method: Hg Operator: Admin Date of Analysis: 14 Dec 2012 08:30:33

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
U	500-53159-d-2-d ms - 1	1.0488	3745	ppb	14 Dec 2012 10:54:52	44.0000	420
U	500-53159-d-2-e msd - 1	0.8113	2841	ppb	14 Dec 2012 10:56:43	44.0000	421
U	500-53159-d-3-b - 1	-0.0613	-480	ppb	14 Dec 2012 10:59:01	44.0000	422
U	500-53159-d-4-b - 1	0.0620	-11	ppb	14 Dec 2012 11:01:14	44.0000	423
U	500-53159-d-5-b - 1	0.0643	-2	ppb	14 Dec 2012 11:03:06	44.0000	424
U	CCV - 1	1.0627	3798	ppb	14 Dec 2012 11:04:58	44.0000	425
U	CCB - 1	-0.0626	-485	ppb	14 Dec 2012 11:06:49	44.0000	426
U	500-53159-d-6-b - 1	0.0646	-1	ppb	14 Dec 2012 11:09:07	44.0000	427
U	500-53159-d-7-b - 1	0.0614	-13	ppb	14 Dec 2012 11:10:59	44.0000	428
U	500-53159-d-8-b - 1	0.0593	-21	ppb	14 Dec 2012 11:12:50	44.0000	429
U	500-53159-d-9-b - 1	0.0672	9	ppb	14 Dec 2012 11:14:42	44.0000	430
U	500-53159-d-10-b - 1	0.0654	2	ppb	14 Dec 2012 11:16:33	44.0000	431
U	500-53159-d-11-b - 1	0.0635	-5	ppb	14 Dec 2012 11:18:25	44.0000	432
U	500-53159-d-12-b - 1	0.0717	26	ppb	14 Dec 2012 11:20:16	44.0000	433
U	500-53159-d-13-b - 1	0.0604	-17	ppb	14 Dec 2012 11:22:08	44.0000	434
U	500-53159-d-14-b - 1	0.0635	-5	ppb	14 Dec 2012 11:23:59	44.0000	435
U	500-53159-d-15-b - 1	0.0667	7	ppb	14 Dec 2012 11:25:51	44.0000	436
U	CCV - 1	1.0990	3936	ppb	14 Dec 2012 11:27:43	44.0000	437
U	CCB - 1	-0.0641	-491	ppb	14 Dec 2012 11:29:34	44.0000	438

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Batch Number: 172801 Batch Start Date: 12/12/12 15:00 Batch Analyst: Laird, Rebecca

Batch Method: 3010A Batch End Date: 12/12/12 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M12JSPKIC 00002			
MB 500-172801/1		3010A, 6010B		50 mL	50 mL				
LCS 500-172801/2		3010A, 6010B		50 mL	50 mL	0.5 mL			
500-53164-J-1	VLF-MW-6	3010A, 6010B	T	50 mL	50 mL				
500-53164-J-2	VLF-MW-6A	3010A, 6010B	T	50 mL	50 mL				
500-53164-J-3	VLF-MW-7	3010A, 6010B	T	50 mL	50 mL				
500-53164-J-3 DU	VLF-MW-7	3010A, 6010B	T	50 mL	50 mL				
500-53164-J-3 MS	VLF-MW-7	3010A, 6010B	T	50 mL	50 mL	0.5 mL			
500-53164-J-3 MSD	VLF-MW-7	3010A, 6010B	T	50 mL	50 mL	0.5 mL			
500-53164-J-4	VLF-MW-5	3010A, 6010B	T	50 mL	50 mL				
500-53164-J-5	VLF-MW-2	3010A, 6010B	T	50 mL	50 mL				

Batch Notes	
First End time	1530
Lot # of hydrochloric acid	0000007153
Lot # of Nitric Acid	L08022
Hot Block ID number	4
Pipette ID	1627
First Start time	1500
ID number of the thermometer	J59688
Digestion Tube/Cup Lot #	20313760
Uncorrected Temperature	90 Celsius
Uncorrected Temperature 2	90 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Batch Number: 172866 Batch Start Date: 12/13/12 11:00 Batch Analyst: Veldhuizen, Chris M

Batch Method: 7470A Batch End Date: 12/13/12 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M11FSTKHG 00001	M12ASTKHG 00001		
MB 500-172866/7		7470A, 7470A		25 mL	25 mL				
LCS 500-172866/8		7470A, 7470A		25 mL	25 mL	0.00005 mL			
500-53164-J-1	VLF-MW-6	7470A, 7470A	T	25 mL	25 mL				
500-53164-J-2	VLF-MW-6A	7470A, 7470A	T	25 mL	25 mL				
500-53164-J-3	VLF-MW-7	7470A, 7470A	T	25 mL	25 mL				
500-53164-J-3 DU	VLF-MW-7	7470A, 7470A	T	25 mL	25 mL				
500-53164-J-3 MS	VLF-MW-7	7470A, 7470A	T	25 mL	25 mL		0.000025 mL		
500-53164-J-3 MSD	VLF-MW-7	7470A, 7470A	T	25 mL	25 mL		0.000025 mL		
500-53164-J-4	VLF-MW-5	7470A, 7470A	T	25 mL	25 mL				
500-53164-J-5	VLF-MW-2	7470A, 7470A	T	25 mL	25 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Batch Number: 172866 Batch Start Date: 12/13/12 11:00 Batch Analyst: Veldhuizen, Chris M

Batch Method: 7470A Batch End Date: 12/13/12 13:00

Batch Notes	
Hydroxylamine Hydrochloride Lot	19333
Batch Comment	STOCK ID: m10cstkhg_00001, m12astkhg_00001 (Curve)
Sulfuric Acid Lot Number	k20042
Lot # of hydrochloric acid	0000007153
Lot # of Nitric Acid	L03021
Hood ID or number	c0454
Hot Block ID number	6
Potassium Persulfate Lot Number	k43467
Potassium Permanganate Lot Number	k35621
NaCL Lot #	UF30BZEMS
Oven, Bath or Block Temperature 1	88
Oven, Bath or Block Temperature 2	88
Pipette ID	2240
Repittetor Volume Check	OK
Stannous Chloride Lot Number	k21597
Temperature	88 Celsius
ID number of the thermometer	hb305412
Digestion Tube/Cup Lot #	1207143
Uncorrected Temperature	90 Celsius
Visual ck - digestate F.V. consistency	OK

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG No.:

Project: Vulcan Louisville Fansteel

Client Sample ID	Lab Sample ID
VLF-MW-6	500-53164-1
VLF-MW-6A	500-53164-2
VLF-MW-7	500-53164-3
VLF-MW-5	500-53164-4
VLF-MW-2	500-53164-5

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VLF-MW-6
Lab Sample ID: 500-53164-1
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 10:11
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	83	4.0	0.92	mg/L			20	300.0
14797-55-8	Nitrate as N	0.028	0.20	0.028	mg/L	U		1	300.0
14797-65-0	Nitrite as N	0.028	0.20	0.028	mg/L	U		1	300.0
14808-79-8	Sulfate	180	4.0	1.6	mg/L			20	300.0
	Alkalinity	410	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	4.0	1.0	0.38	mg/L			1	SM 5310C
	TOC Result 2	3.8	1.0	0.38	mg/L			1	SM 5310C
7440-44-0	TOC Dup	3.9	1.0	0.38	mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VLF-MW-6A
Lab Sample ID: 500-53164-2
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 10:11
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	89	5.0	1.2	mg/L			25	300.0
14797-55-8	Nitrate as N	0.028	0.20	0.028	mg/L	U	H	1	300.0
14797-65-0	Nitrite as N	0.028	0.20	0.028	mg/L	U	H	1	300.0
14808-79-8	Sulfate	230	5.0	2.0	mg/L			25	300.0
	Alkalinity	410	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	3.8	1.0	0.38	mg/L			1	SM 5310C
	TOC Result 2	3.8	1.0	0.38	mg/L			1	SM 5310C
7440-44-0	TOC Dup	3.8	1.0	0.38	mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VLF-MW-7
Lab Sample ID: 500-53164-3
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 11:30
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	35	2.0	0.46	mg/L			10	300.0
14797-55-8	Nitrate as N	0.21	0.20	0.028	mg/L			1	300.0
14797-65-0	Nitrite as N	0.028	0.20	0.028	mg/L	U		1	300.0
14808-79-8	Sulfate	550	20	7.8	mg/L			100	300.0
	Alkalinity	350	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	2.9	1.0	0.38	mg/L			1	SM 5310C
	TOC Result 2	3.0	1.0	0.38	mg/L			1	SM 5310C
7440-44-0	TOC Dup	2.9	1.0	0.38	mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VLF-MW-5
Lab Sample ID: 500-53164-4
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 12:23
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	17	2.0	0.46	mg/L			10	300.0
14797-55-8	Nitrate as N	0.028	0.20	0.028	mg/L	U	H	1	300.0
14797-65-0	Nitrite as N	0.028	0.20	0.028	mg/L	U	H	1	300.0
14808-79-8	Sulfate	280	10	3.9	mg/L			50	300.0
	Alkalinity	400	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	1.7	1.0	0.38	mg/L			1	SM 5310C
	TOC Result 2	1.7	1.0	0.38	mg/L			1	SM 5310C
7440-44-0	TOC Dup	1.7	1.0	0.38	mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: VLF-MW-2
Lab Sample ID: 500-53164-5
Lab Name: TestAmerica Chicago
Job No.: 500-53164-1
SDG ID.:
Matrix: Water
Date Sampled: 12/11/2012 14:20
Reporting Basis: WET
Date Received: 12/12/2012 10:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	390	20	4.6	mg/L			100	300.0
14797-55-8	Nitrate as N	2.9	0.20	0.028	mg/L			1	300.0
14797-65-0	Nitrite as N	0.28	2.0	0.28	mg/L	U	H	10	300.0
14808-79-8	Sulfate	690	20	7.8	mg/L			100	300.0
	Alkalinity	150	5.0	1.2	mg/L			1	SM 2320B
	TOC Result 1	5.7	1.0	0.38	mg/L			1	SM 5310C
	TOC Result 2	5.7	1.0	0.38	mg/L			1	SM 5310C
7440-44-0	TOC Dup	5.7	1.0	0.38	mg/L			1	SM 5310C

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Analyst: CLM Batch Start Date: 12/13/2012

Reporting Units: mg/L Analytical Batch No.: 173019

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	09:37	Chloride	2.96	3.00	99	90-110		WSTICCL2_00007
			Nitrate as N	2.01	2.00	101	90-110		WSTICNO32_00008
			Nitrite as N	1.90	2.00	95	90-110		WSTICNO2II_00002
			Sulfate	5.50	5.00	110	90-110		WSTICS2_00005
2	ICB	09:50	Chloride	0.046				U	
			Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
			Sulfate	0.078				U	
28	CCV	12:17	Chloride	0.970	1.00	97	90-110		WSTICCL1_00007
			Nitrate as N	0.999	1.00	100	90-110		WSTICN031_00005
			Nitrite as N	0.945	1.00	95	90-110		WSTICNI1_00004
			Sulfate	2.58	2.50	103	90-110		WSTICS1_00006
29	CCB	12:30	Chloride	0.046				U	
			Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
			Sulfate	0.078				U	
40	CCV	14:56	Chloride	0.985	1.00	99	90-110		WSTICCL1_00007
			Nitrate as N	0.977	1.00	98	90-110		WSTICN031_00005
			Nitrite as N	0.945	1.00	94	90-110		WSTICNI1_00004
			Sulfate	2.56	2.50	102	90-110		WSTICS1_00006
41	CCB	15:10	Chloride	0.046				U	
			Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
			Sulfate	0.078				U	
52	CCV	17:36	Chloride	0.980	1.00	98	90-110		WSTICCL1_00007
			Nitrate as N	0.987	1.00	99	90-110		WSTICN031_00005
			Nitrite as N	0.951	1.00	95	90-110		WSTICNI1_00004
			Sulfate	2.59	2.50	104	90-110		WSTICS1_00006
53	CCB	17:49	Chloride	0.046				U	
			Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
			Sulfate	0.078				U	
64	CCV	20:16	Chloride	0.959	1.00	96	90-110		WSTICCL1_00007
			Nitrate as N	0.980	1.00	98	90-110		WSTICN031_00005
			Nitrite as N	1.02	1.00	102	90-110		WSTICNI1_00004
			Sulfate	2.57	2.50	103	90-110		WSTICS1_00006
65	CCB	20:29	Chloride	0.046				U	
			Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
			Sulfate	0.078				U	
76	CCV	22:55	Chloride	0.980	1.00	98	90-110		WSTICCL1_00007
			Nitrate as N	0.987	1.00	99	90-110		WSTICN031_00005

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.: 500-53164-1

SDG No.:

Analyst: CLM Batch Start Date: 12/13/2012

Reporting Units: mg/L Analytical Batch No.: 173019

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
76	CCV	22:55	Nitrite as N	0.953	1.00	95	90-110		WSTICNI1_00004
			Sulfate	2.57	2.50	103	90-110		WSTICS1_00006
77	CCB	23:09	Chloride	0.046				U	
			Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
			Sulfate	0.078				U	
88	CCV	01:35	Chloride	0.970	1.00	97	90-110		WSTICCL1_00007
			Nitrate as N	0.981	1.00	98	90-110		WSTICN031_00005
			Nitrite as N	0.949	1.00	95	90-110		WSTICNI1_00004
			Sulfate	2.59	2.50	104	90-110		WSTICS1_00006
89	CCB	01:48	Chloride	0.046				U	
			Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
			Sulfate	0.078				U	
100	CCV	04:14	Chloride	0.980	1.00	98	90-110		WSTICCL1_00007
			Nitrate as N	0.995	1.00	99	90-110		WSTICN031_00005
			Nitrite as N	0.950	1.00	95	90-110		WSTICNI1_00004
			Sulfate	2.64	2.50	106	90-110		WSTICS1_00006
101	CCB	04:28	Chloride	0.046				U	
			Nitrate as N	0.028				U	
			Nitrite as N	0.028				U	
			Sulfate	0.078				U	

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.: 500-53164-1

SDG No.:

Analyst: KD Batch Start Date: 12/18/2012

Reporting Units: mg/L Analytical Batch No.: 173374

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	10:41	TOC Result 1	19.3	20.0	96	85-115		WCSTTC2_00072
			TOC Result 2	19.3	20.0	96	85-115		WCSTTC2_00072
			TOC Dup	19.3	20.0	96	85-115		WCSTTC2_00072
2	ICB	10:51	TOC Result 1	0.38				U	
			TOC Result 2	0.38				U	
			TOC Dup	0.38				U	
11	CCV	15:52	TOC Result 1	9.63	10.0	96	85-115		WCSTTC1_00058
			TOC Result 2	9.93	10.0	99	85-115		WCSTTC1_00058
			TOC Dup	9.78	10.0	98	85-115		WCSTTC1_00058
12	CCB	16:03	TOC Result 1	0.38				U	
			TOC Result 2	0.38				U	
			TOC Dup	0.38				U	
18	CCV	18:05	TOC Result 1	9.88	10.0	99	85-115		WCSTTC1_00058
			TOC Result 2	9.88	10.0	99	85-115		WCSTTC1_00058
			TOC Dup	9.88	10.0	99	85-115		WCSTTC1_00058
19	CCB	18:15	TOC Result 1	0.38				U	
			TOC Result 2	0.38				U	
			TOC Dup	0.38				U	

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.: 500-53164-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 173019	Date: 12/13/2012 13:36						
300.0	MB 500-173019/34	Chloride	0.046	U	mg/L	0.20	1
300.0	MB 500-173019/34	Nitrate as N	0.028	U	mg/L	0.20	1
300.0	MB 500-173019/34	Nitrite as N	0.028	U	mg/L	0.20	1
300.0	MB 500-173019/34	Sulfate	0.078	U	mg/L	0.20	1
Batch ID: 173256	Date: 12/17/2012 22:24						
SM 2320B	MB 500-173256/28	Alkalinity	1.2	U	mg/L	5.0	1
Batch ID: 173374	Date: 12/18/2012 11:02						
SM 5310C	MB 500-173374/3	TOC Result 1	0.38	U	mg/L	1.0	1
SM 5310C	MB 500-173374/3	TOC Result 2	0.38	U	mg/L	1.0	1
SM 5310C	MB 500-173374/3	TOC Dup	0.38	U	mg/L	1.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 173019	Date: 12/14/2012 00:28										
300.0	500-53164-3	Nitrate as N	0.21		mg/L						
300.0	500-53164-3 MS	Nitrate as N	2.21		mg/L	2.00	100	75-125			H
300.0	500-53164-3	Nitrite as N	0.028	U	mg/L						
300.0	500-53164-3 MS	Nitrite as N	1.82		mg/L	2.00	91	75-125			H
Batch ID: 173019	Date: 12/14/2012 00:42										
300.0	500-53164-3	Chloride	35		mg/L						
300.0	500-53164-3 MS	Chloride	65.9		mg/L	30.0	102	75-125			
Batch ID: 173019	Date: 12/14/2012 00:55										
300.0	500-53164-3	Sulfate	550		mg/L						
300.0	500-53164-3 MS	Sulfate	1110		mg/L	500	112	75-125			
Batch ID: 173374	Date: 12/18/2012 16:42										
SM 5310C	500-53164-3	TOC Result 1	2.9		mg/L						
SM 5310C	500-53164-3 MS	TOC Result 1	13.8		mg/L	10.0	109	75-125			
SM 5310C	500-53164-3	TOC Result 2	3.0		mg/L						
SM 5310C	500-53164-3 MS	TOC Result 2	13.8		mg/L	10.0	109	75-125			
SM 5310C	500-53164-3	TOC Dup	2.9		mg/L						
SM 5310C	500-53164-3 MS	TOC Dup	13.8		mg/L	10.0	109	75-125			

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.: 500-53164-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 173019	Date: 12/14/2012 01:08										
300.0	500-53164-3 MSD	Nitrate as N	2.16		mg/L	2.00	98	75-125	2	20	H
300.0	500-53164-3 MSD	Nitrite as N	1.82		mg/L	2.00	91	75-125	0	20	H
Batch ID: 173019	Date: 12/14/2012 01:21										
300.0	500-53164-3 MSD	Chloride	65.5		mg/L	30.0	101	75-125	1	20	
Batch ID: 173019	Date: 12/14/2012 02:01										
300.0	500-53164-3 MSD	Sulfate	1090		mg/L	500	108	75-125	2	20	
Batch ID: 173374	Date: 12/18/2012 16:56										
SM 5310C	500-53164-3 MSD	TOC Result 1	13.8		mg/L	10.0	109	75-125	0	20	
SM 5310C	500-53164-3 MSD	TOC Result 2	13.8		mg/L	10.0	109	75-125	0	20	
SM 5310C	500-53164-3 MSD	TOC Dup	13.8		mg/L	10.0	109	75-125	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 173256	Date: 12/18/2012 00:06							
SM 2320B	VLF-MW-7	500-53164-3	Alkalinity	350	mg/L			
SM 2320B	VLF-MW-7	500-53164-3 DU	Alkalinity	355	mg/L	1	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 173019	Date: 12/13/2012 16:03										
						LCS Source: WSTICCL2_00007					
300.0	LCS 500-173019/45	Chloride	2.90		mg/L	3.00	97	90-110			
						LCS Source: WSTICNO2II_00002					
300.0	LCS 500-173019/45	Nitrite as N	1.85		mg/L	2.00	92	90-110			
						LCS Source: WSTICNO32_00008					
300.0	LCS 500-173019/45	Nitrate as N	1.96		mg/L	2.00	98	90-110			
						LCS Source: WSTICS2_00005					
300.0	LCS 500-173019/45	Sulfate	5.40		mg/L	5.00	108	90-110			
Batch ID: 173256	Date: 12/17/2012 22:30										
						LCS Source: WCSTAK_00006					
SM 2320B	LCS 500-173256/29	Alkalinity	104		mg/L	100	104	80-120			
Batch ID: 173374	Date: 12/18/2012 11:25										
						LCS Source: WCSTTC2_00072					
SM 5310C	LCS 500-173374/4	TOC Result 1	9.49		mg/L	10.0	95	80-120			
SM 5310C	LCS 500-173374/4	TOC Result 2	9.49		mg/L	10.0	95	80-120			
SM 5310C	LCS 500-173374/4	TOC Dup	9.49		mg/L	10.0	95	80-120			

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: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: IC5

Method: 300.0 MDL Date: 05/29/2012 14:59

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.2	0.046
Nitrate as N		0.2	0.028
Nitrite as N		0.2	0.028
Sulfate		0.2	0.078

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: IC5

Method: 300.0 XMDL Date: 05/29/2012 15:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.2	0.046
Nitrate as N		0.2	0.028
Nitrite as N		0.2	0.028
Sulfate		0.2	0.078

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: PC-Titrate

Method: SM 2320B MDL Date: 05/29/2012 14:13

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	1.2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: PC-Titrate

Method: SM 2320B XMDL Date: 05/29/2012 14:13

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: TOC3

Method: SM 5310C MDL Date: 05/29/2012 16:12

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Dup		1	0.38
TOC Result 1		1	0.38
TOC Result 2		1	0.38

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-53164-1

SDG Number:

Matrix: Water Instrument ID: TOC3

Method: SM 5310C XMDL Date: 05/29/2012 16:13

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Dup		1	0.38
TOC Result 1		1	0.38
TOC Result 2		1	0.38

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No: 500-53164-1

SDG No.:

Instrument ID: IC5 Date: 05/01/2012 08:07

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chloride		7.5	300.0
Nitrate as N		4.0	300.0
Nitrite as N		5.0	300.0
Sulfate		10.0	300.0

FORM XI - IN

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No: 500-53164-1

SDG No.:

Instrument ID: TOC3 Date: 08/01/2008 09:33

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
TOC Result 1		40	SM 5310C
TOC Result 2		40	SM 5310C
TOC Dup		40	SM 5310C

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: IC5 Method: 300.0

Start Date: 12/13/2012 09:37 End Date: 12/14/2012 12:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-	N-No2	NO3	SO4																
ICV 500-173019/1	1		09:37	X	X	X	X																
ICB 500-173019/2	1		09:50	X	X	X	X																
500-53164-1	1	T	10:04		X	X																	
ZZZZZZ			10:17																				
500-53164-2	1	T	10:30		X	X																	
ZZZZZZ			10:44																				
ZZZZZZ			10:57																				
ZZZZZZ			11:10																				
500-53164-3	1	T	11:23		X	X																	
500-53164-3	10	T	11:37	X																			
ZZZZZZ			11:50																				
ZZZZZZ			12:03																				
CCV 500-173019/28	1		12:17	X	X	X	X																
CCB 500-173019/29	1		12:30	X	X	X	X																
ZZZZZZ			12:43																				
ZZZZZZ			12:56																				
500-53164-4	1	T	13:10		X	X																	
500-53164-4	10	T	13:23	X																			
MB 500-173019/34	1	T	13:36	X	X	X	X																
ZZZZZZ			13:50																				
ZZZZZZ			14:03																				
500-53164-5	1	T	14:16			X																	
500-53164-5	10	T	14:30		X																		
ZZZZZZ			14:43																				
CCV 500-173019/40	1		14:56	X	X	X	X																
CCB 500-173019/41	1		15:10	X	X	X	X																
ZZZZZZ			15:23																				
ZZZZZZ			15:36																				
ZZZZZZ			15:50																				
LCS 500-173019/45	1	T	16:03	X	X	X	X																
ZZZZZZ			16:16																				
ZZZZZZ			16:29																				
ZZZZZZ			16:43																				
ZZZZZZ			16:56																				
ZZZZZZ			17:09																				
ZZZZZZ			17:23																				
CCV 500-173019/52	1		17:36	X	X	X	X																
CCB 500-173019/53	1		17:49	X	X	X	X																
ZZZZZZ			18:03																				
ZZZZZZ			18:16																				
ZZZZZZ			18:29																				
ZZZZZZ			18:43																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: IC5 Method: 300.0

Start Date: 12/13/2012 09:37 End Date: 12/14/2012 12:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-	N-No2	NO3	SO4																
ZZZZZZ			18:56																				
ZZZZZZ			19:09																				
ZZZZZZ			19:22																				
ZZZZZZ			19:36																				
ZZZZZZ			19:49																				
ZZZZZZ			20:02																				
CCV 500-173019/64	1		20:16	X	X	X	X																
CCB 500-173019/65	1		20:29	X	X	X	X																
ZZZZZZ			20:42																				
ZZZZZZ			20:56																				
500-53164-1	20	T	21:09	X			X																
500-53164-2	25	T	21:22	X			X																
500-53164-3	100	T	21:35				X																
500-53164-4	50	T	21:49				X																
500-53164-5	100	T	22:02	X			X																
ZZZZZZ			22:15																				
ZZZZZZ			22:29																				
ZZZZZZ			22:42																				
CCV 500-173019/76	1		22:55	X	X	X	X																
CCB 500-173019/77	1		23:09	X	X	X	X																
ZZZZZZ			23:22																				
ZZZZZZ			23:35																				
ZZZZZZ			23:48																				
ZZZZZZ			00:02																				
ZZZZZZ			00:15																				
500-53164-3 MS	1	T	00:28		X	X																	
500-53164-3 MS	10	T	00:42	X																			
500-53164-3 MS	100	T	00:55				X																
500-53164-3 MSD	1	T	01:08		X	X																	
500-53164-3 MSD	10	T	01:21	X																			
CCV 500-173019/88	1		01:35	X	X	X	X																
CCB 500-173019/89	1		01:48	X	X	X	X																
500-53164-3 MSD	100	T	02:01				X																
ZZZZZZ			02:15																				
ZZZZZZ			02:28																				
ZZZZZZ			02:41																				
ZZZZZZ			02:55																				
ZZZZZZ			03:08																				
ZZZZZZ			03:21																				
ZZZZZZ			03:34																				
ZZZZZZ			03:48																				
ZZZZZZ			04:01																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: IC5 Method: 300.0

Start Date: 12/13/2012 09:37 End Date: 12/14/2012 12:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-	N-No2	NO3	SO4																
CCV 500-173019/100	1		04:14	X	X	X	X																
CCB 500-173019/101	1		04:28	X	X	X	X																
ZZZZZZ			04:41																				
ZZZZZZ			04:54																				
ZZZZZZ			05:08																				
ZZZZZZ			05:21																				
ZZZZZZ			05:34																				
ZZZZZZ			05:47																				
ZZZZZZ			06:01																				
ZZZZZZ			06:14																				
ZZZZZZ			06:27																				
ZZZZZZ			06:41																				
CCV 500-173019/112			06:54																				
CCB 500-173019/113			07:07																				
ZZZZZZ			07:20																				
ZZZZZZ			07:34																				
ZZZZZZ			07:47																				
ZZZZZZ			08:00																				
ZZZZZZ			08:14																				
ZZZZZZ			08:27																				
ZZZZZZ			08:40																				
ZZZZZZ			08:54																				
ZZZZZZ			09:07																				
ZZZZZZ			09:20																				
CCV 500-173019/12			09:33																				
CCB 500-173019/13			09:47																				
ZZZZZZ			10:00																				
ZZZZZZ			10:13																				
ZZZZZZ			10:27																				
ZZZZZZ			10:40																				
ZZZZZZ			10:53																				
ZZZZZZ			11:06																				
ZZZZZZ			11:20																				
ZZZZZZ			11:33																				
ZZZZZZ			11:46																				
ZZZZZZ			12:00																				
ZZZZZZ			12:13																				
CCV 500-173019/25			12:26																				
CCB 500-173019/26			12:39																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: PC-Titrate Method: SM 2320B

Start Date: 12/17/2012 19:37 End Date: 12/18/2012 00:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:42																				
ZZZZZZ			19:47																				
ZZZZZZ			19:53																				
ZZZZZZ			19:59																				
ZZZZZZ			20:04																				
ZZZZZZ			20:12																				
ZZZZZZ			20:19																				
ZZZZZZ			20:25																				
ZZZZZZ			20:32																				
ZZZZZZ			20:38																				
ZZZZZZ			20:52																				
ZZZZZZ			21:00																				
ZZZZZZ			21:05																				
ZZZZZZ			21:11																				
ZZZZZZ			21:16																				
ZZZZZZ			21:21																				
ZZZZZZ			21:27																				
ZZZZZZ			21:32																				
ZZZZZZ			21:38																				
ZZZZZZ			21:43																				
ZZZZZZ			21:49																				
ZZZZZZ			22:02																				
ZZZZZZ			22:08																				
ZZZZZZ			22:14																				
ZZZZZZ			22:19																				
MB 500-173256/28	1	T	22:24	X																			
LCS 500-173256/29	1	T	22:30	X																			
ZZZZZZ			22:35																				
ZZZZZZ			22:42																				
ZZZZZZ			22:47																				
ZZZZZZ			22:52																				
ZZZZZZ			22:58																				
ZZZZZZ			23:12																				
ZZZZZZ			23:18																				
ZZZZZZ			23:23																				
ZZZZZZ			23:30																				
ZZZZZZ			23:36																				
ZZZZZZ			23:42																				
500-53164-1	1	T	23:48	X																			
500-53164-2	1	T	23:54	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: PC-Titrate Method: SM 2320B

Start Date: 12/17/2012 19:37 End Date: 12/18/2012 00:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
500-53164-3	1	T	23:59	X																			
500-53164-3 DU	1	T	00:06	X																			
500-53164-4	1	T	00:11	X																			
ZZZZZZ			00:25																				
500-53164-5	1	T	00:31	X																			
ZZZZZZ			00:37																				
ZZZZZZ			00:41																				
ZZZZZZ			00:47																				
ZZZZZZ			00:54																				
ZZZZZZ			00:58																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Instrument ID: TOC3 Method: SM 5310C

Start Date: 12/18/2012 10:41 End Date: 12/18/2012 18:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOC1	TOC2	TOCD																	
ICV 500-173374/1	1		10:41	X	X	X																	
ICB 500-173374/2	1		10:51	X	X	X																	
MB 500-173374/3	1	T	11:02	X	X	X																	
LCS 500-173374/4	1	T	11:25	X	X	X																	
ZZZZZZ			11:55																				
ZZZZZZ			12:26																				
ZZZZZZ			13:30																				
ZZZZZZ			14:01																				
500-53164-1	1	T	15:01	X	X	X																	
500-53164-2	1	T	15:26	X	X	X																	
CCV 500-173374/11	1		15:52	X	X	X																	
CCB 500-173374/12	1		16:03	X	X	X																	
500-53164-3	1	T	16:15	X	X	X																	
500-53164-3 MS	1	T	16:42	X	X	X																	
500-53164-3 MSD	1	T	16:56	X	X	X																	
500-53164-4	1	T	17:08	X	X	X																	
500-53164-5	1	T	17:35	X	X	X																	
CCV 500-173374/18	1		18:05	X	X	X																	
CCB 500-173374/19	1		18:15	X	X	X																	

Prep Types

T = Total/NA

TestAmerica Chicago CHI-22-12-084/T-09/12

Cover Page - Ion Chromatograph

LIMS Batch: 173019 **FILE ID:** ~~20121213~~ 12-13-12m .csv

Calibration Date: 12-10-12 CMM-14m

Instrument: (Circle)	
a. IC4: Dionex Series DX-120	DX120.met
(b.) IC5: Dionex Series ICS-1100	

Standard Traceability

Note: Working Standards are prepared daily from the noted Stock Solutions.

Test	Calibration Curve CCV1 / CCV2 Stock ID	LCS ICV MS Stock ID	LCS mg/L	(ICV-CCV1)/CCV2 mg/L	MS mg/L
Fluoride	WSTICF1- 5	WSTICF2- 7	1.0	1.0 / 0.6	1.0
Chloride	WSTICCL1- 7	WSTICCL2- 7	3.0	3.0 / 1.0	3.0
Nitrite-N	WSTICNI1- 4	WSTICNO2II- 2	2.0	2.0 / 1.0	2.0
Bromide	WSTICBR1- 5	WSTICBR2- 4	2.0	2.0 / 1.0	2.0
Nitrate-N	WSTICNO31- 5	WSTICNO32- 8	2.0	2.0 / 1.0	2.0
O-PO4	WSTICP1- 5	WSTICP2- 5	2.0	2.0 / 1.0	2.0
Sulfate	WSTICS1- 6	WSTICS2- 5	5.0	5.0 / 2.5	5.0

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 = **C**o-**E**lution or masking of peak(s) has been identified

OR = **O**ver **R**ange - Peak exceeds the highest standard of the calibration curve

OD = **O**ver **D**ilution - The ion is reported from a less dilute injection

NR = **N**ot **R**equired - analysis was not required for this ion

AD = **A**nalyst **D**iscretion was used in the evaluation and the reporting of the ion

RE = **R**eported **E**lsewhere

RT = **R**etention Time Shift

Analyst Signature: Colleen Moore Date: 12-14-12

Reviewer Signature: Diane Zeller Date: 12/14/12

TestAmerica Chicago

Retention Time Window Summary Table

Instrument:	IC5: ICS 1100	Method: Seven Anions
Batch:	173019	
Date:	12/13/2012	

Analyst:	Colleen Moore

Parameter	ICV RT Minutes	RT Window +/- 5 %	
Fluoride		0.00	0.00
Chloride	3.58	3.40	3.76
Nitrite	4.18	3.97	4.39
Bromide	5.28	5.02	5.55
Nitrate	5.88	5.58	6.17
Orthophosphate		0.00	0.00
Sulfate	9.00	8.55	9.45

Analyst Signature: Colleen Moore Date: 12-14-12

Sequence Overview

Sequence Details

Name:	**12-13-2012**	*Created On:*	**10/Apr/12 15:30:04**
Directory:	**Instrument Data\CHI-WC-IC5_1\December-**	*Created By:*	**moorec**
Data Vault:	**ChromeleonLocal**	*Updated On:*	**14/Dec/12 12:52:01**
No. of Injections:	**123**	*Updated By:*	**moorec**

Injection Details

No.	Injection Name	Position	Type	Level	Inject Time	Status
1	ICV	RA1	Check Standard	04	13/Dec/12 09:37:34	Finished
2	ICB	RA2	Unknown		13/Dec/12 09:50:52	Finished
3	500-53164-A-1	GA1	Unknown		13/Dec/12 10:04:14	Finished
4	500-53164-A-1	GA2	Unknown		13/Dec/12 10:17:31	Finished
5	500-53164-A-2	GA3	Unknown		13/Dec/12 10:30:49	Finished
6	500-53164-A-2	GA4	Unknown		13/Dec/12 10:44:05	Finished
7	500-53190-A-11	GA5	Unknown		13/Dec/12 10:57:23	Finished
8	500-53190-A-11	GA6	Unknown		13/Dec/12 11:10:40	Finished
9	500-53164-A-3	GA7	Unknown		13/Dec/12 11:23:57	Finished
10	500-53164-A-3	GA8	Unknown		13/Dec/12 11:37:15	Finished
11	500-53190-A-1	GB1	Unknown		13/Dec/12 11:50:32	Finished
12	500-53190-A-1	GB2	Unknown		13/Dec/12 12:03:50	Finished
13	CCV	RA7	Check Standard	03	13/Dec/12 12:17:07	Finished
14	CCB	RA8	Unknown		13/Dec/12 12:30:25	Finished
15	500-53190-A-2	GB3	Unknown		13/Dec/12 12:43:42	Finished
16	500-53190-A-2	GB4	Unknown		13/Dec/12 12:56:59	Finished
17	500-53164-A-4	GB5	Unknown		13/Dec/12 13:10:17	Finished
18	500-53164-A-4	GB6	Unknown		13/Dec/12 13:23:35	Finished
19	MB	RA3	Unknown		13/Dec/12 13:36:53	Finished
20	500-53190-A-12	GC1	Unknown		13/Dec/12 13:50:11	Finished
21	500-53190-A-12	GC2	Unknown		13/Dec/12 14:03:28	Finished
22	500-53164-A-5	GC3	Unknown		13/Dec/12 14:16:45	Finished
23	500-53164-A-5	GC4	Unknown		13/Dec/12 14:30:03	Finished
24	500-53190-A-13	GC5	Unknown		13/Dec/12 14:43:25	Finished
25	CCV	RA5	Check Standard	03	13/Dec/12 14:56:45	Finished
26	CCB	RA6	Unknown		13/Dec/12 15:10:06	Finished
27	500-53190-A-13	GC6	Unknown		13/Dec/12 15:23:27	Finished
28	500-53190-A-3	GB7	Unknown		13/Dec/12 15:36:44	Finished
29	500-53190-A-3	GB8	Unknown		13/Dec/12 15:50:00	Finished
30	LCS	RA4	Check Standard	04	13/Dec/12 16:03:19	Finished
31	500-53190-A-5	GC7	Unknown		13/Dec/12 16:16:37	Finished
32	500-53190-A-5	GC8	Unknown		13/Dec/12 16:29:55	Finished
33	500-53190-A-14	GD1	Unknown		13/Dec/12 16:43:13	Finished
34	500-53190-A-14	GD2	Unknown		13/Dec/12 16:56:30	Finished
35	500-53190-A-8	GD3	Unknown		13/Dec/12 17:09:48	Finished
36	500-53190-A-8	GD4	Unknown		13/Dec/12 17:23:05	Finished
37	CCV	RA7	Check Standard	03	13/Dec/12 17:36:22	Finished
38	CCB	RA8	Unknown		13/Dec/12 17:49:44	Finished
39	500-53190-A-15	GD5	Unknown		13/Dec/12 18:03:05	Finished
40	500-53190-A-15	GD6	Unknown		13/Dec/12 18:16:21	Finished
41	500-53190-A-9	GD7	Unknown		13/Dec/12 18:29:43	Finished
42	500-53190-A-9	GD8	Unknown		13/Dec/12 18:43:02	Finished

173019 (continued)

43	500-53234-I-1	GE1	Unknown		13/Dec/12 18:56:20	Finished
44	500-53234-I-1	GE2	Unknown		13/Dec/12 19:09:37	Finished
45	500-53234-I-3	GE3	Unknown		13/Dec/12 19:22:55	Finished
46	500-53234-I-3	GE4	Unknown		13/Dec/12 19:36:11	Finished
47	500-53234-I-2	GE5	Unknown		13/Dec/12 19:49:29	Finished
48	500-53234-I-2	GE6	Unknown		13/Dec/12 20:02:46	Finished
49	CCV	RA5	Check Standard	03	13/Dec/12 20:16:09	Finished
50	CCB	RA6	Unknown		13/Dec/12 20:29:27	Finished
51	500-53234-I-4	GE7	Unknown		13/Dec/12 20:42:45	Finished
52	500-53234-I-4	GE8	Unknown		13/Dec/12 20:56:02	Finished
53	500-53164-A-1	GA1	Unknown		13/Dec/12 21:09:20	Finished
54	500-53164-A-2	GA2	Unknown		13/Dec/12 21:22:38	Finished
55	500-53164-A-3	GA3	Unknown		13/Dec/12 21:35:55	Finished
56	500-53164-A-4	GA4	Unknown		13/Dec/12 21:49:13	Finished
57	500-53164-A-5	GA5	Unknown		13/Dec/12 22:02:31	Finished
58	500-53190-A-1	GA6	Unknown		13/Dec/12 22:15:49	Finished
59	500-53190-A-2	GA7	Unknown		13/Dec/12 22:29:06	Finished
60	500-53190-A-3	GA8	Unknown		13/Dec/12 22:42:24	Finished
61	CCV	RA7	Check Standard	03	13/Dec/12 22:55:43	Finished
62	CCB	RA8	Unknown		13/Dec/12 23:09:00	Finished
63	500-53190-A-5	GB1	Unknown		13/Dec/12 23:22:18	Finished
64	500-53190-A-11	GB2	Unknown		13/Dec/12 23:35:35	Finished
65	500-53190-A-12	GB3	Unknown		13/Dec/12 23:48:52	Finished
66	500-53190-A-13	GB4	Unknown		14/Dec/12 00:02:10	Finished
67	500-53190-A-14	GB5	Unknown		14/Dec/12 00:15:28	Finished
68	500-53164-A-3 MS	RD1	Spiked	04	14/Dec/12 00:28:48	Finished
69	500-53164-A-3 MS	RD2	Spiked	04	14/Dec/12 00:42:05	Finished
70	500-53164-A-3 MS	RD3	Spiked	04	14/Dec/12 00:55:24	Finished
71	500-53164-A-3 MSD	RD4	Spiked	04	14/Dec/12 01:08:41	Finished
72	500-53164-A-3 MSD	RD5	Spiked	04	14/Dec/12 01:21:59	Finished
73	CCV	RA5	Check Standard	03	14/Dec/12 01:35:16	Finished
74	CCB	RA6	Unknown		14/Dec/12 01:48:33	Finished
75	500-53164-A-3 MSD	RD6	Spiked	04	14/Dec/12 02:01:50	Finished
76	500-53190-A-1 MS	RE1	Spiked	04	14/Dec/12 02:15:08	Finished
77	500-53190-A-1 MS	RE2	Spiked	04	14/Dec/12 02:28:26	Finished
78	500-53190-A-1 MS	RE3	Spiked	04	14/Dec/12 02:41:43	Finished
79	500-53190-A-1 MSD	RE4	Spiked	04	14/Dec/12 02:55:00	Finished
80	500-53190-A-1 MSD	RE5	Spiked	04	14/Dec/12 03:08:17	Finished
81	500-53190-A-1 MSD	RE6	Spiked	04	14/Dec/12 03:21:34	Finished
82	MB	RA3	Unknown		14/Dec/12 03:34:51	Finished
83	LCS	RA4	Check Standard	04	14/Dec/12 03:48:09	Finished
84	LB3	BA1	Unknown		14/Dec/12 04:01:30	Finished
85	CCV	RA7	Check Standard	03	14/Dec/12 04:14:48	Finished
86	CCB	RA8	Unknown		14/Dec/12 04:28:06	Finished
87	500-53065-A-1	BA2	Unknown		14/Dec/12 04:41:24	Finished
88	500-53065-A-2	BA3	Unknown		14/Dec/12 04:54:43	Finished
89	500-53065-A-3	BA4	Unknown		14/Dec/12 05:08:00	Finished
90	500-53065-A-4	BA5	Unknown		14/Dec/12 05:21:18	Finished
91	500-52806-A-1	BA6	Unknown		14/Dec/12 05:34:36	Finished
92	500-52806-A-2	BA7	Unknown		14/Dec/12 05:47:54	Finished
93	500-52806-A-4	BA8	Unknown		14/Dec/12 06:01:11	Finished
94	500-52806-A-7	BB1	Unknown		14/Dec/12 06:14:29	Finished
95	500-53094-A-36	BB2	Unknown		14/Dec/12 06:27:47	Finished
96	500-53094-A-37	BB3	Unknown		14/Dec/12 06:41:05	Finished
97	CCV	RA5	Check Standard	03	14/Dec/12 06:54:23	Finished
98	CCB	RA6	Unknown		14/Dec/12 07:07:41	Finished

173019 (continued)

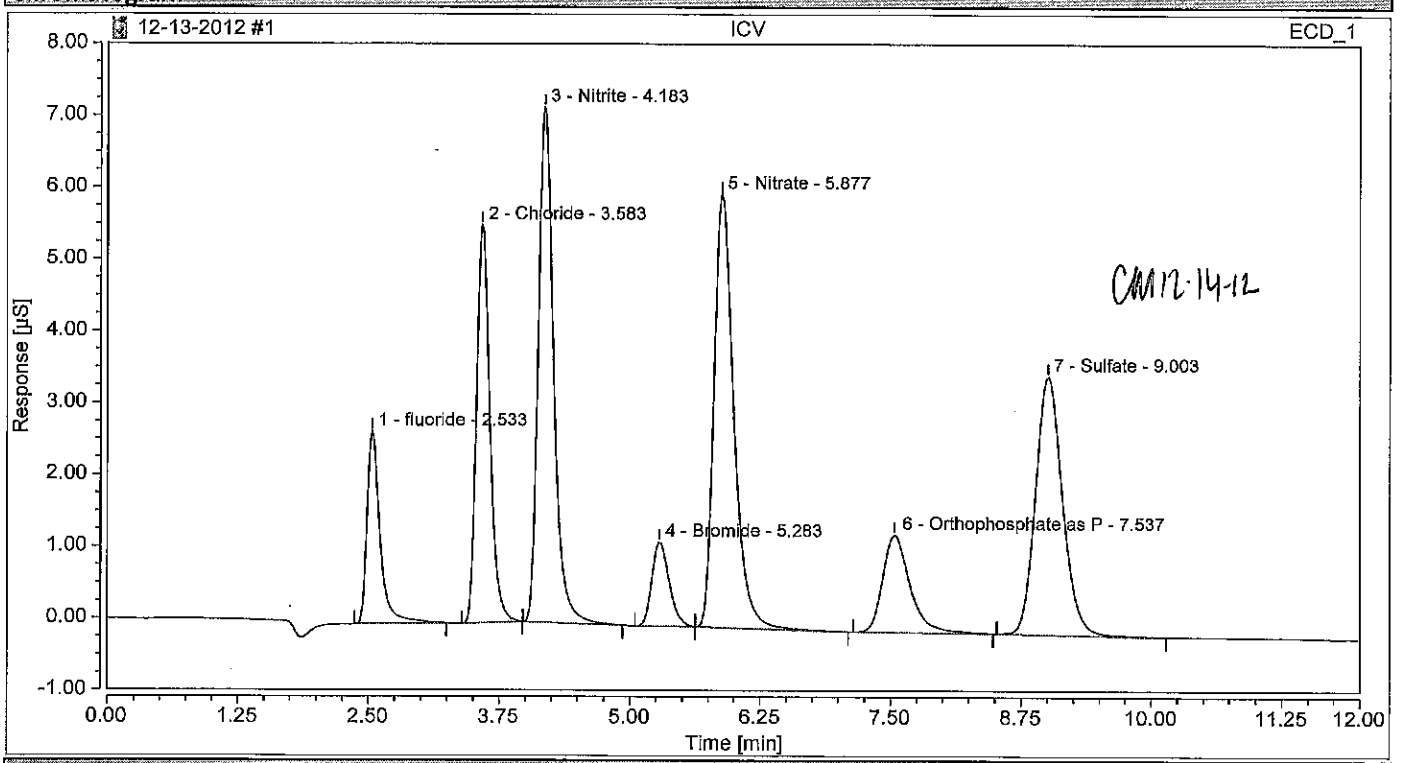
99	500-53094-A-38	BB4	Unknown		14/Dec/12 07:20:59	Finished
100	500-53094-A-39	BB5	Unknown		14/Dec/12 07:34:17	Finished
101	500-53161-A-1	BC1	Unknown		14/Dec/12 07:47:34	Finished
102	500-53161-A-1	BC2	Unknown		14/Dec/12 08:00:51	Finished
103	500-53161-A-2	BC3	Unknown		14/Dec/12 08:14:09	Finished
104	500-53161-A-2	BC4	Unknown		14/Dec/12 08:27:27	Finished
105	500-53161-A-3	BC5	Unknown		14/Dec/12 08:40:45	Finished
106	500-53161-A-3	BC6	Unknown		14/Dec/12 08:54:02	Finished
107	500-53206-A-1	BC7	Unknown		14/Dec/12 09:07:20	Finished
108	500-53206-A-1	BC8	Unknown		14/Dec/12 09:20:37	Finished
109	CCV	RA7	Check Standard	03	14/Dec/12 09:33:55	Finished
110	CCB	RA8	Unknown		14/Dec/12 09:47:13	Finished
111	500-53206-A-2	BD1	Unknown		14/Dec/12 10:00:31	Finished
112	500-53206-A-2	BD2	Unknown		14/Dec/12 10:13:48	Finished
113	500-53206-A-3	BD3	Unknown		14/Dec/12 10:27:05	Finished
114	500-53206-A-2	BE3	Unknown		14/Dec/12 10:40:22	Finished
115	500-53206-A-4	BD5	Unknown		14/Dec/12 10:53:39	Finished
116	500-53206-A-4	BD6	Unknown		14/Dec/12 11:06:56	Finished
117	500-53206-A-5	BD7	Unknown		14/Dec/12 11:20:13	Finished
118	500-53206-A-5	BD8	Unknown		14/Dec/12 11:33:29	Finished
119	500-52806-A-2 MS	BE1	Spiked	04	14/Dec/12 11:46:46	Finished
120	500-52806-A-2 MSD	BE2	Spiked	04	14/Dec/12 12:00:03	Finished
121	500-53206-A-5	BE4	Unknown		14/Dec/12 12:13:20	Finished
122	CCV	RA5	Check Standard	03	14/Dec/12 12:26:40	Finished
123	CCB	RA6	Unknown		14/Dec/12 12:39:58	Finished

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**12.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 09:37**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

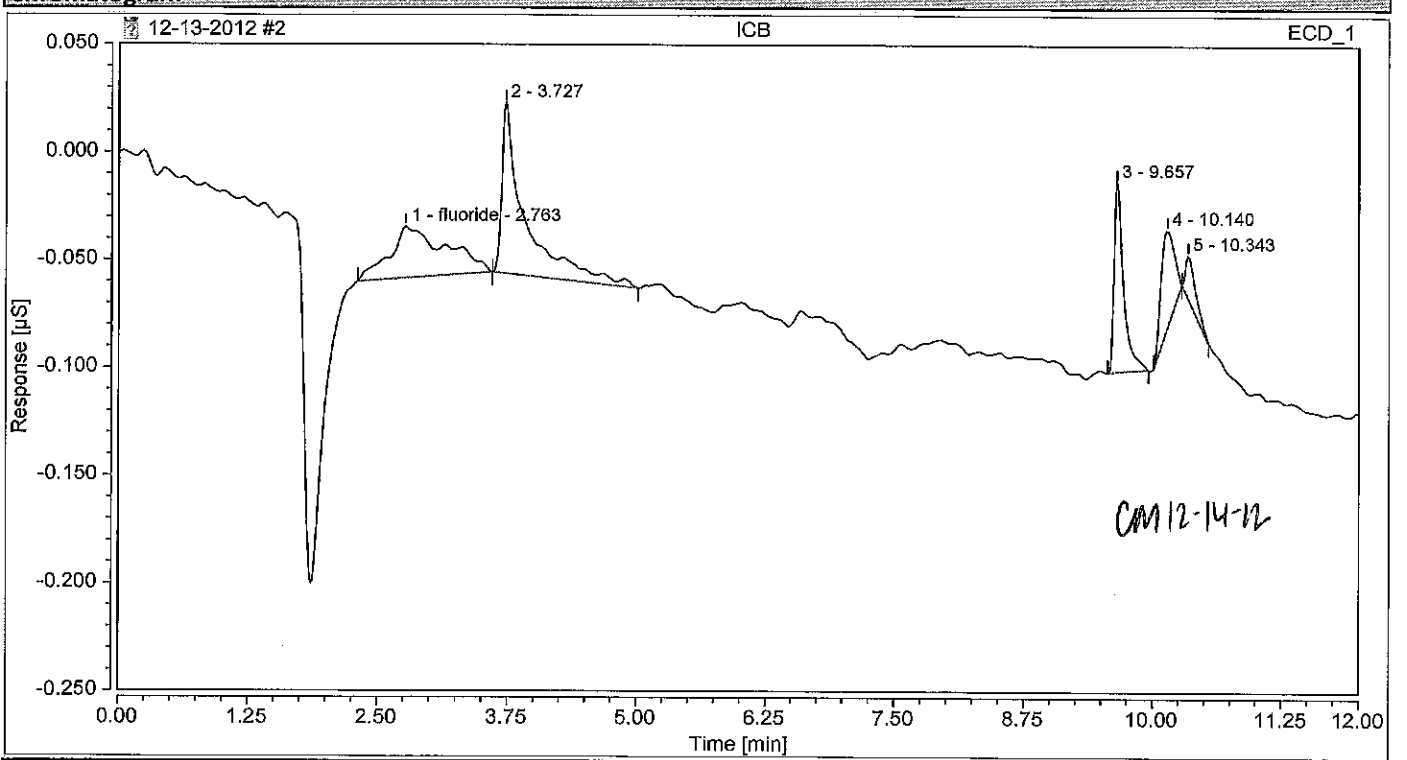
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.533	0.390	2.674	7.10	9.71	1.0627
2	Chloride	3.583	0.829	5.540	15.08	20.12	2.9582
3	Nitrite	4.183	1.219	7.172	22.17	26.05	1.9018
4	Bromide	5.283	0.225	1.170	4.09	4.25	2.0609
5	Nitrate	5.877	1.339	6.029	24.36	21.90	2.0112
6	Orthophosphate as P	7.537	0.417	1.356	7.59	4.93	2.0945
7	Sulfate	9.003	1.079	3.594	19.62	13.05	5.5000
Total:			**5.498**	**27.535**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**12.00**
Vial Number:	**RA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 09:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

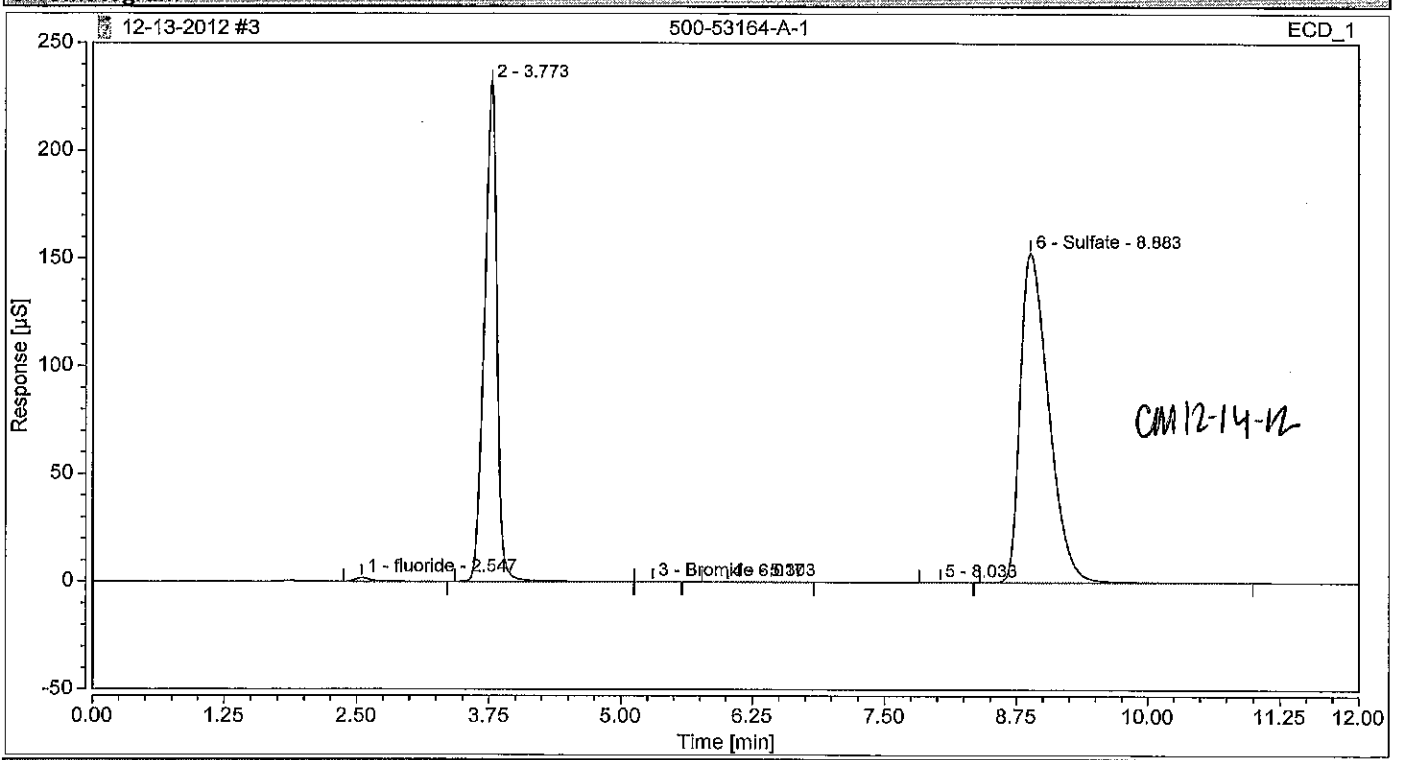
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1*	fluoride	2.763	0.015	0.024	27.39	9.31	0.0401
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.727	0.020	0.079	38.00	30.90	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	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.
3		9.657	0.010	0.088	17.69	34.29	n.a.
4		10.140	0.007	0.045	12.64	17.71	n.a.
5		10.343	0.002	0.020	4.28	7.79	n.a.
Total:			**0.054**	**0.256**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 10:04**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

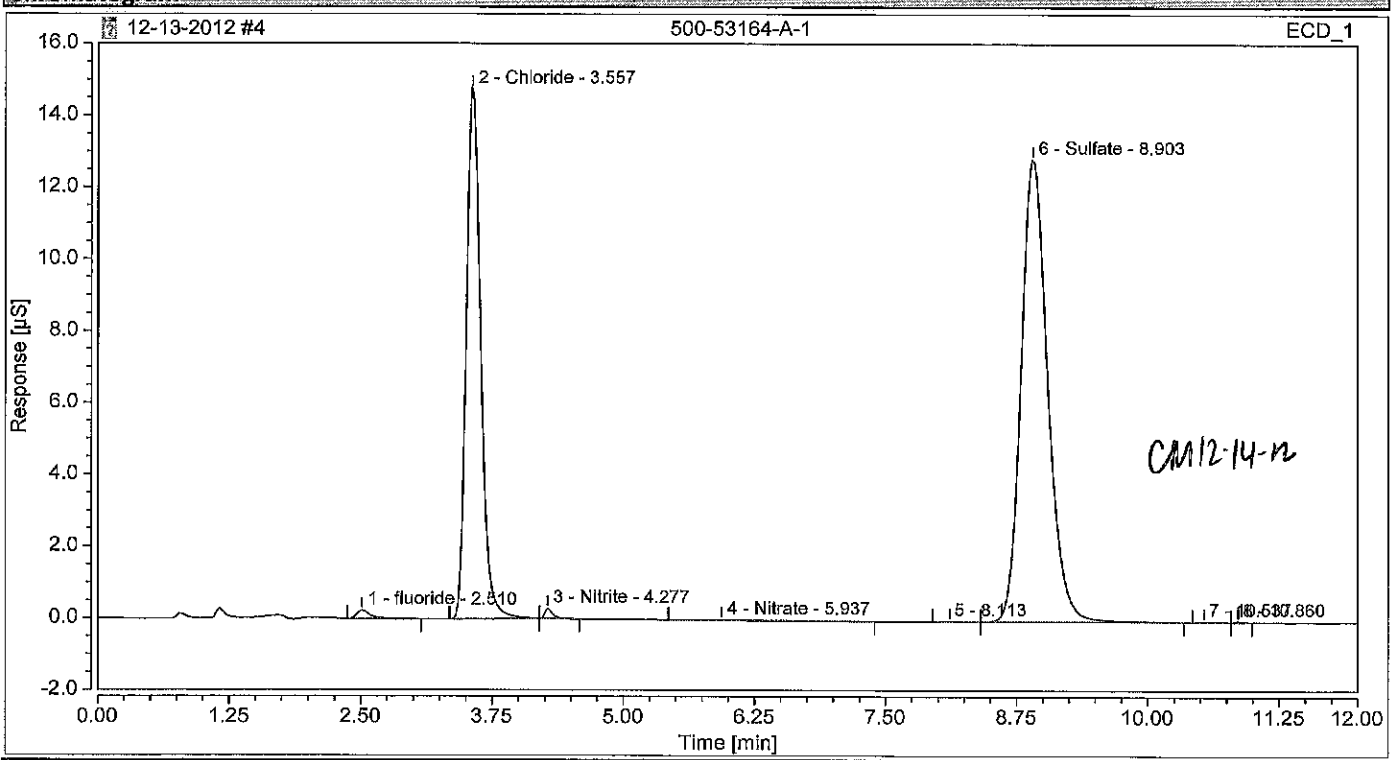
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.547	0.316	1.826	0.39	0.47	0.8592
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.773	31.967	231.458	39.82	59.92	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.303	0.020	0.112	0.03	0.03	0.1847
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		6.017	0.018	0.082	0.02	0.02	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		8.033	0.002	0.009	0.00	0.00	n.a.
6	Sulfate	8.883	47.966	152.785	59.74	39.55	244.5968
Total:			**80.287**	**386.272**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 10:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

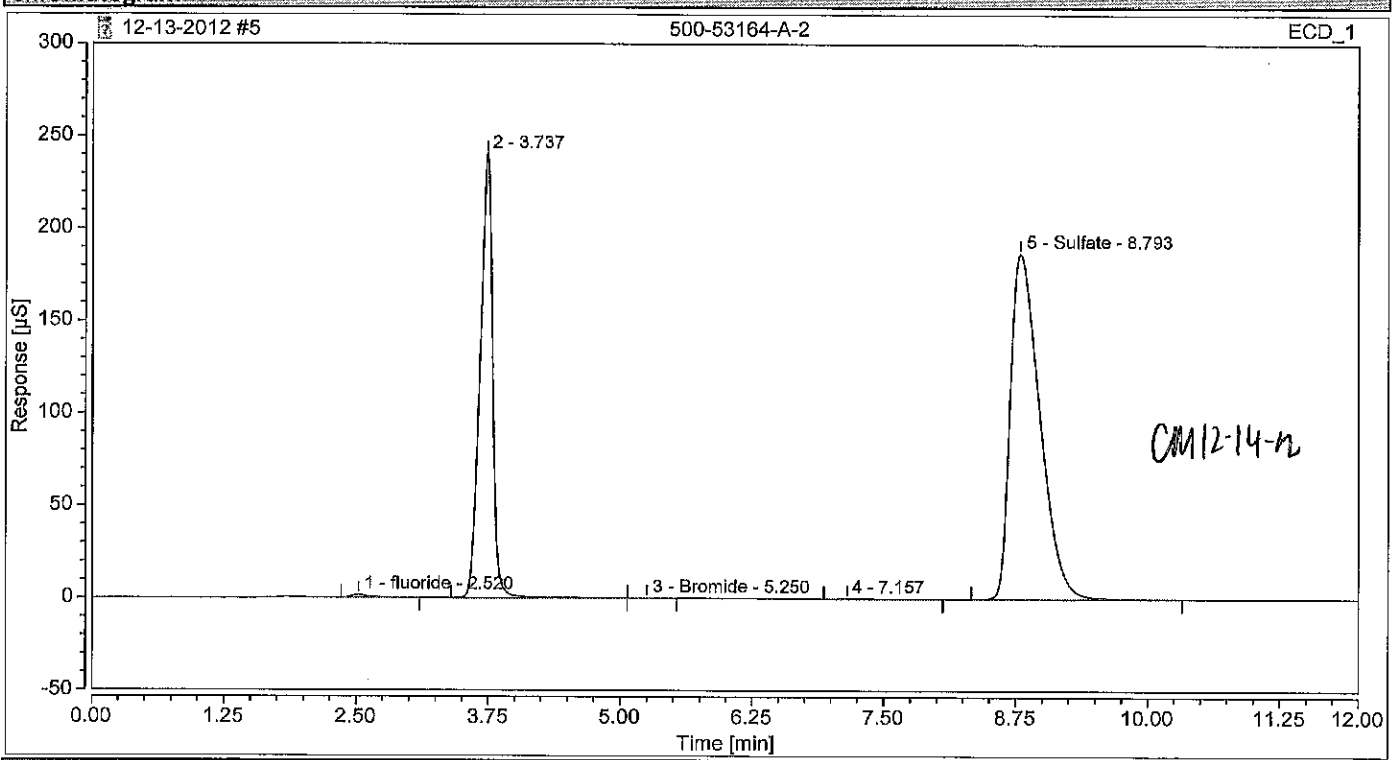
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.035	0.231	0.57	0.82	0.9638
2	Chloride	3.557	2.385	14.760	38.15	52.32	85.0992
3	Nitrite	4.277	0.025	0.280	0.40	0.99	0.3863
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.937	0.013	0.017	0.20	0.06	0.1879
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		8.113	0.003	0.014	0.05	0.05	n.a.
6	Sulfate	8.903	3.786	12.871	60.56	45.62	193.0653
7		10.537	0.003	0.017	0.05	0.06	n.a.
8		10.860	0.002	0.021	0.03	0.08	n.a.
Total:			**6.252**	**28.210**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 10:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

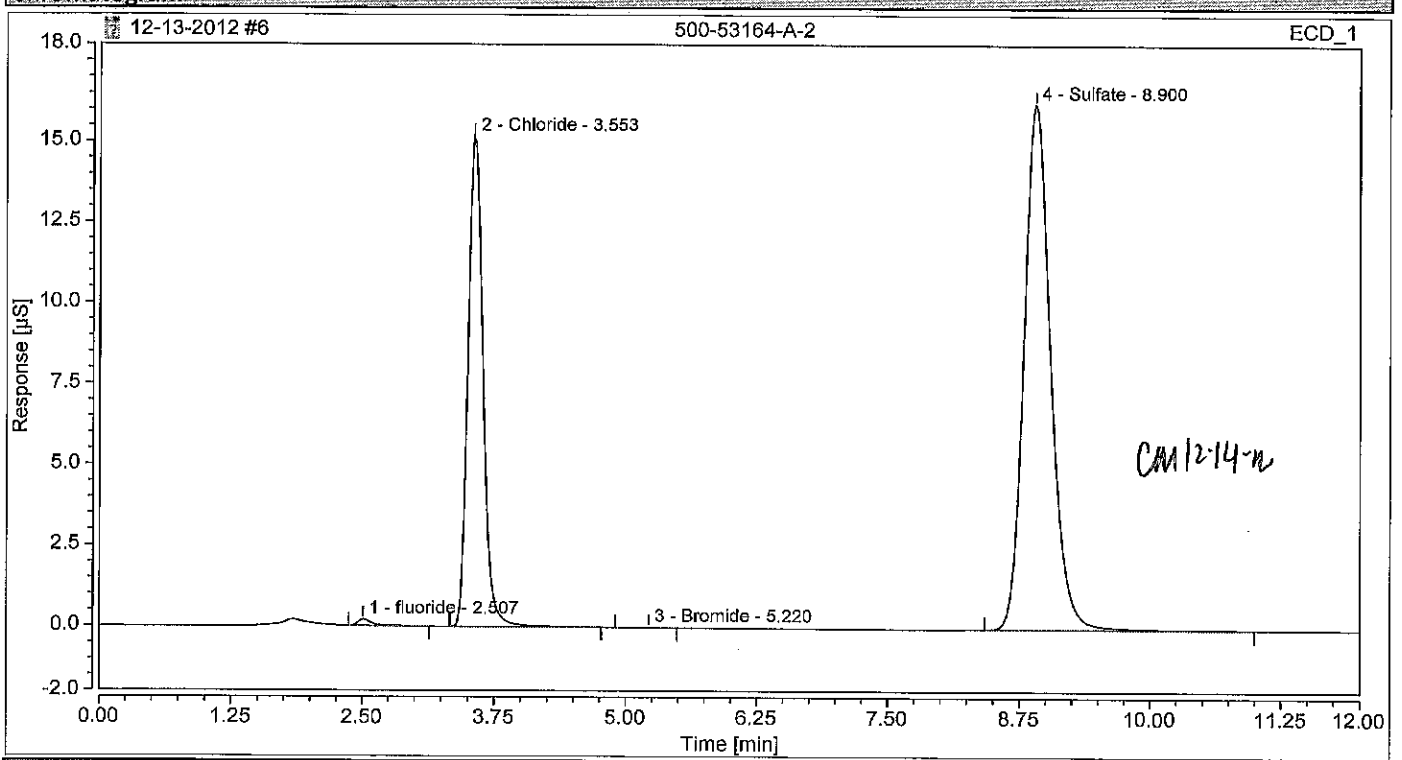
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.520	0.264	1.538	0.28	0.36	0.7194
n.a.	Chloride 0 m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.737	33.450	240.518	35.49	56.02	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.250	0.020	0.111	0.02	0.03	0.1833
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		7.157	0.017	0.094	0.02	0.02	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate 0 m	8.793	60.491	187.045	64.19	43.57	308.4667
Total:			**94.242**	**429.307**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 10:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

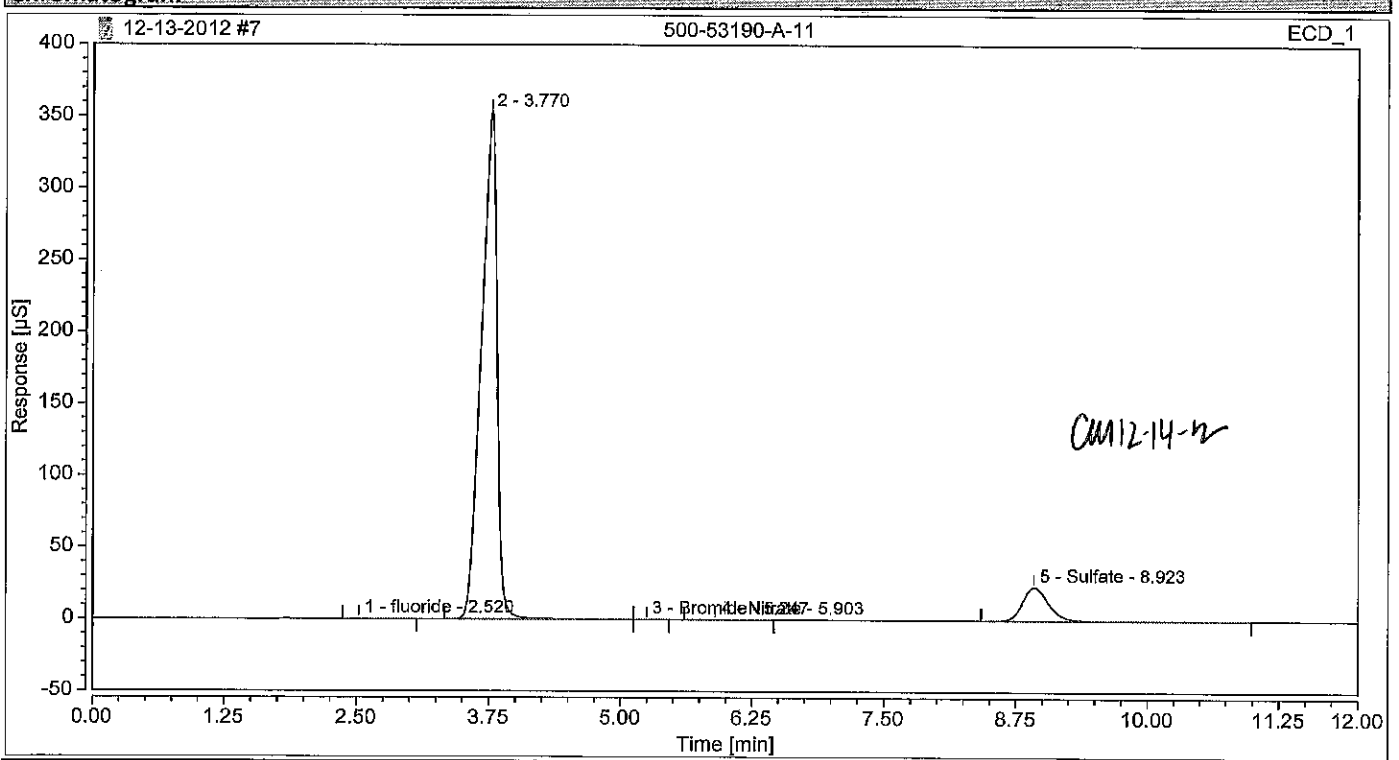
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.032	0.201	0.44	0.64	0.8817
2	Chloride	3.553	2.505	15.176	34.08	47.99	89.3624
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.220	0.002	0.012	0.03	0.04	0.2220
n.a.	Nitrate	n.a.	n.a.	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	8.900	4.810	16.235	65.45	51.34	245.2907
Total:			**7.350**	**31.624**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-11**	*Run Time (min):*	**12.00**
Vial Number:	**GA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 10:57**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.068	0.389	0.10	0.10	0.1864
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.770	60.932	352.996	89.85	93.64	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.247	0.005	0.033	0.01	0.01	0.0493
4	Nitrate	5.903	0.008	0.030	0.01	0.01	0.0124
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.923	6.797	23.508	10.02	6.24	34.6627
Total:			**67.811**	**376.956**	**100.00**	**100.00**	

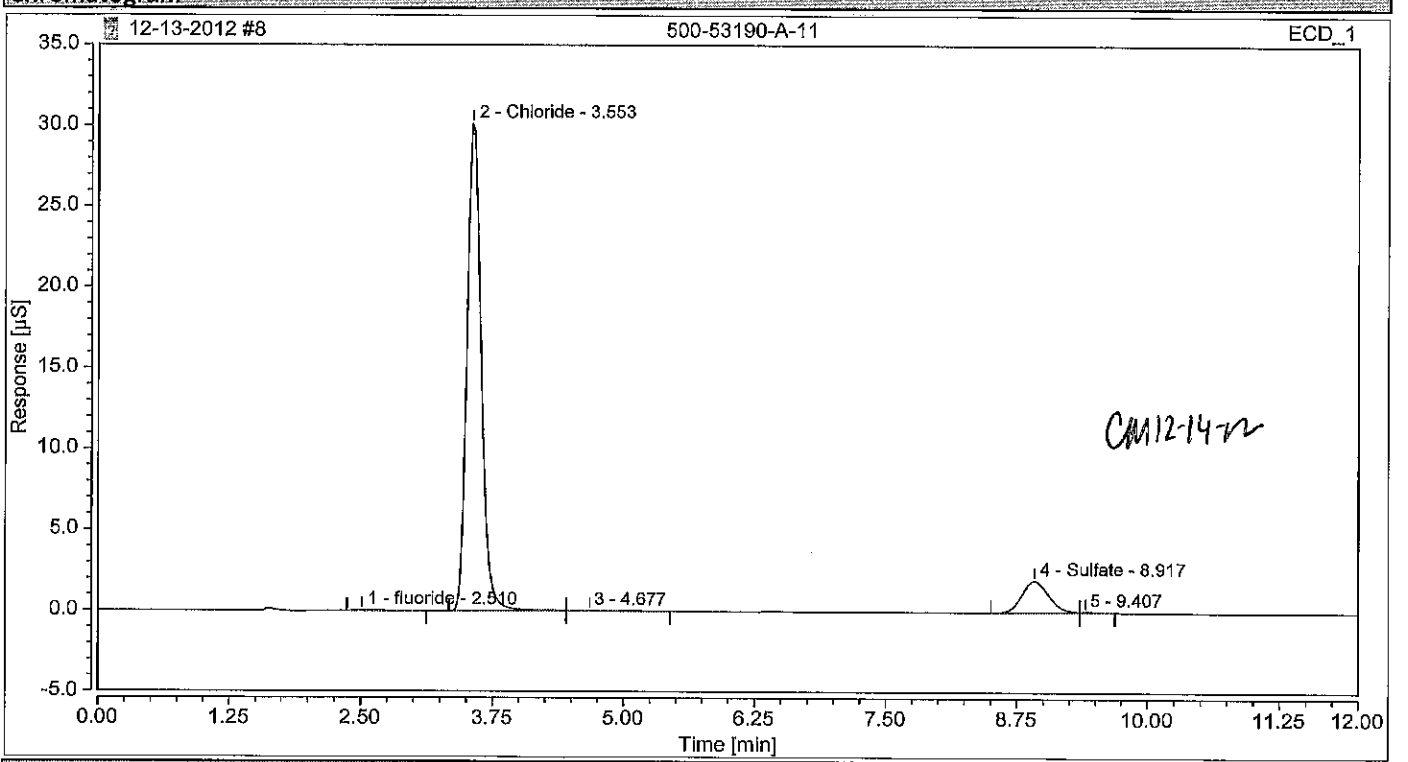
CM 12-14-12

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-11**	*Run Time (min):*	**12.00**
Vial Number:	**GA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 11:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

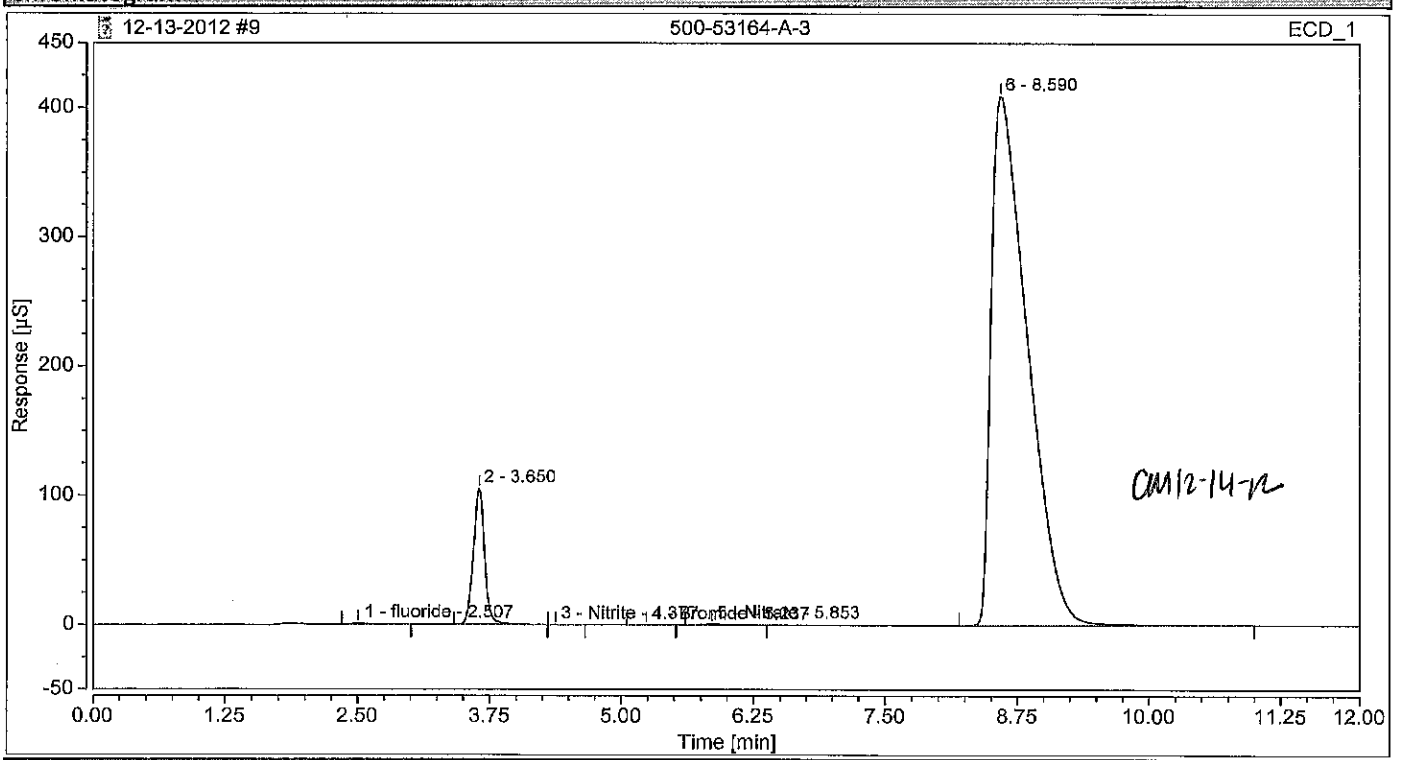
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.009	0.053	0.17	0.16	0.2438
2	Chloride m	3.553	4.735	30.165	88.81	93.63	168.9286
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.677	0.010	0.016	0.19	0.05	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.917	0.574	1.950	10.77	6.05	29.2727
5		9.407	0.004	0.035	0.07	0.11	n.a.
Total:			**5.331**	**32.219**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 11:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

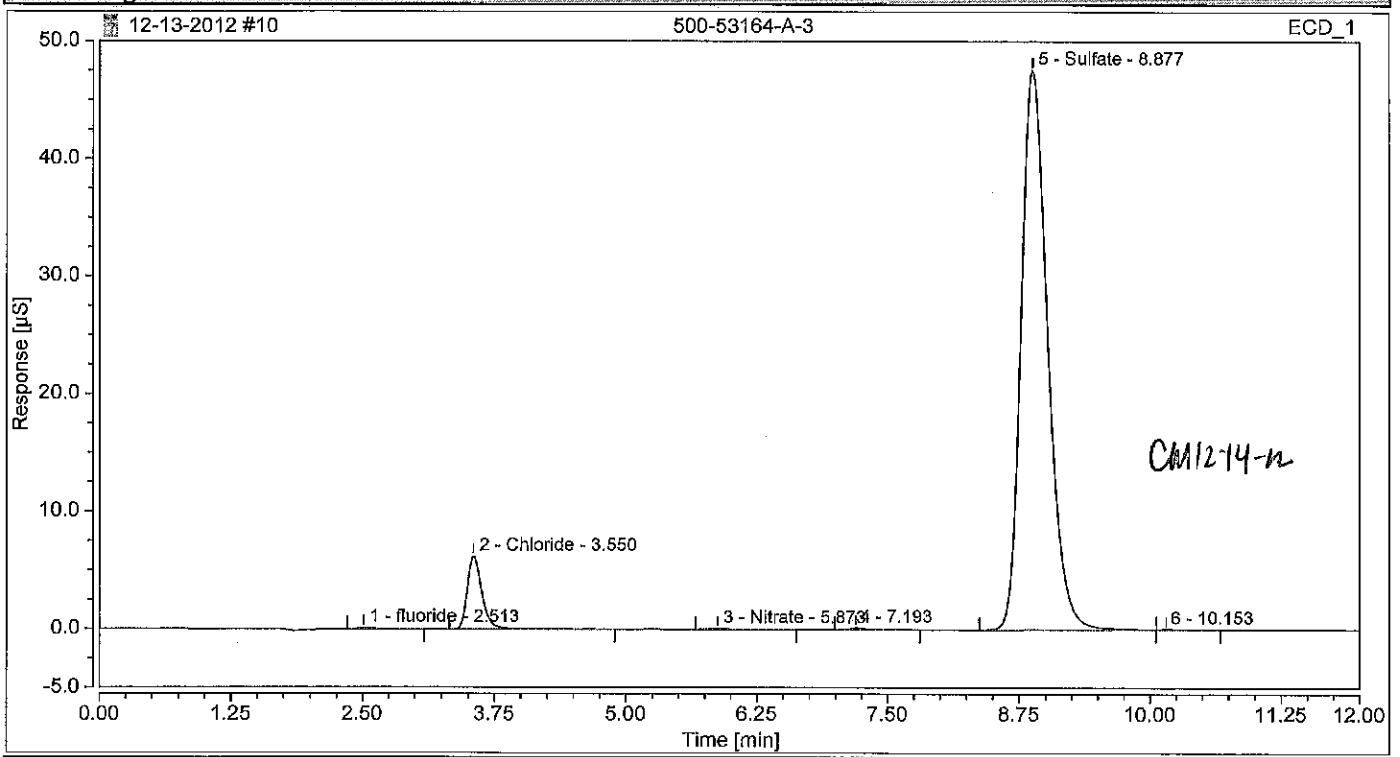
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.507	0.153	0.919	0.09	0.18	0.4161
n.a.	Chloride OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.650	12.987	105.413	7.33	20.41	n.a.
3	Nitrite m	4.377	0.009	0.065	0.01	0.01	0.0141
4	Bromide m	5.237	0.010	0.053	0.01	0.01	0.0940
5	Nitrate	5.853	0.137	0.611	0.08	0.12	0.2054
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		8.590	163.876	409.367	92.50	79.27	n.a.
n.a.	Sulfate OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**177.172**	**516.428**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 11:37**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

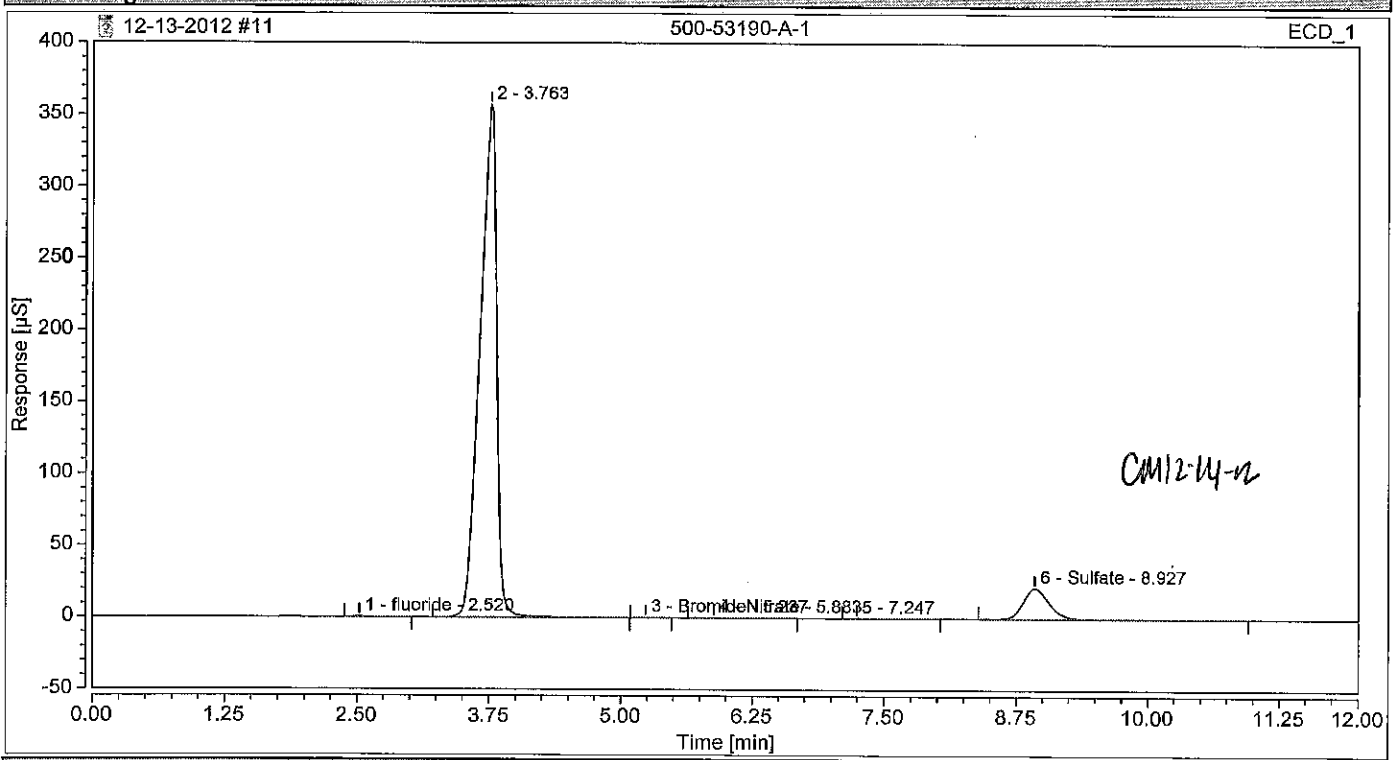
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.020	0.121	0.14	0.22	0.5506
2	Chloride	3.550	0.988	6.196	6.62	11.44	35.2378
n.a.	Nitrite RC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate RC	5.873	0.014	0.055	0.09	0.10	0.2127
4		7.193	0.021	0.136	0.14	0.25	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate 0.4	8.877	13.866	47.604	92.95	87.93	707.0708
6		10.153	0.008	0.029	0.05	0.05	n.a.
Total:			**14.917**	**54.142**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 11:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

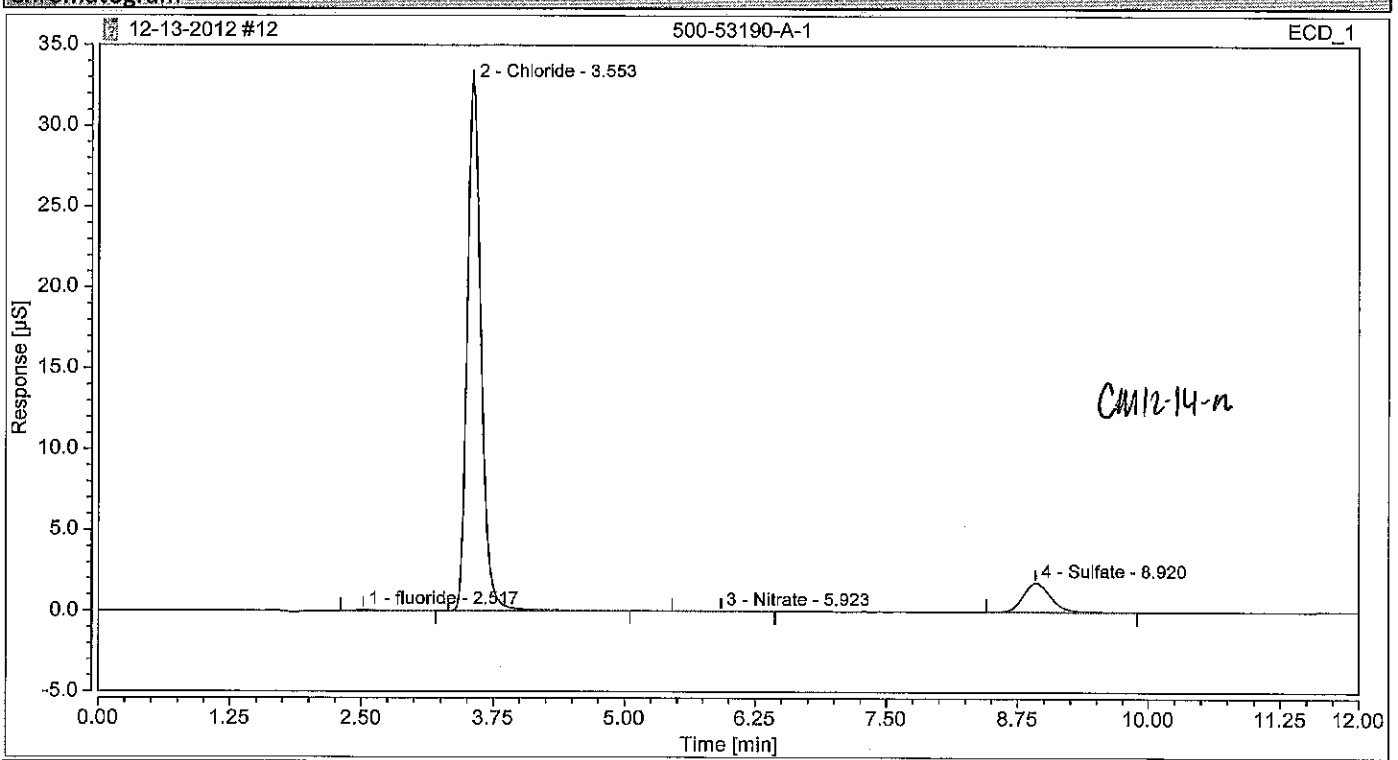
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.520	0.063	0.381	0.09	0.10	0.1727
n.a.	Chloride OR	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.763	64.089	356.704	91.00	94.19	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.237	0.005	0.033	0.01	0.01	0.0493
4	Nitrate	5.883	0.013	0.044	0.02	0.01	0.0201
5		7.247	0.003	0.010	0.00	0.00	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OR	8.927	6.250	21.531	8.87	5.69	31.8701
Total:			**70.424**	**378.702**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 12:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

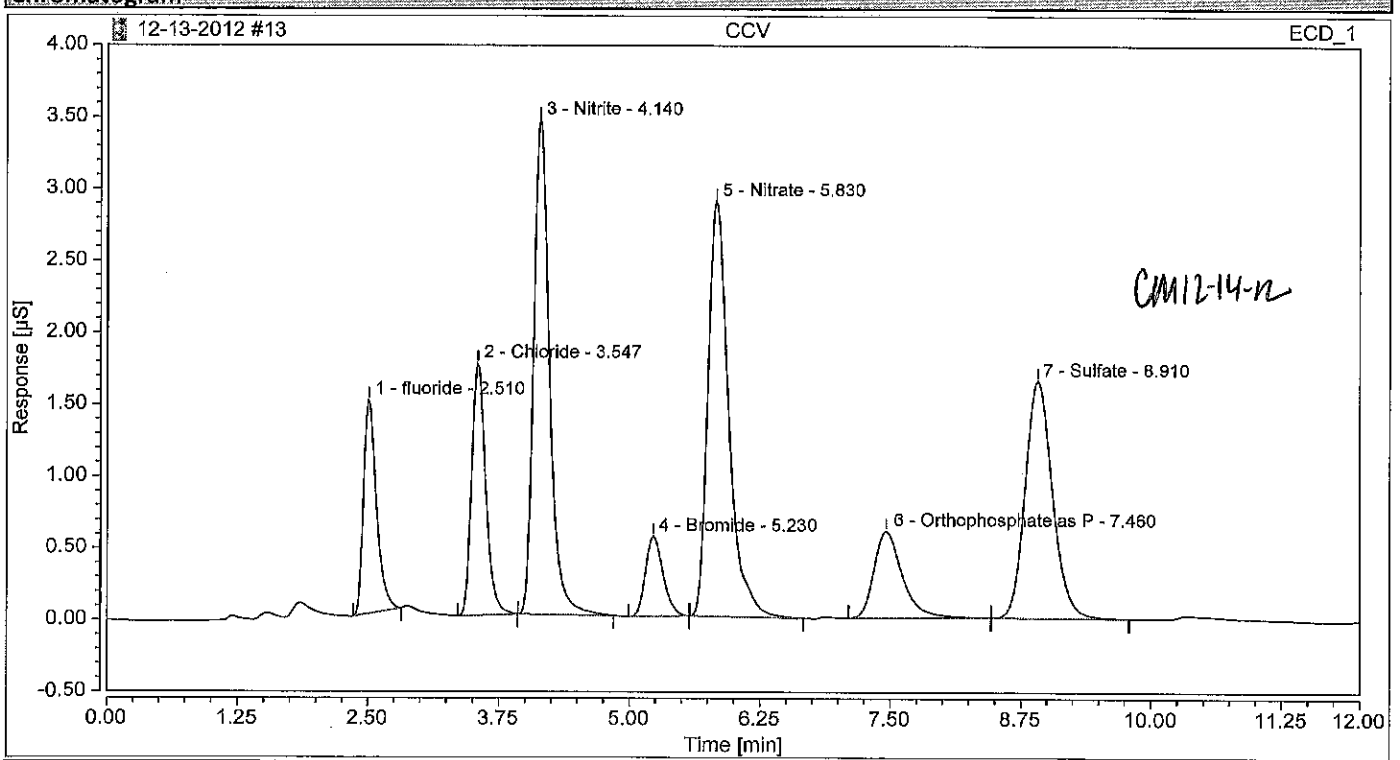
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.013	0.054	0.23	0.16	0.3523
2	Chloride m	3.553	4.983	32.673	89.81	94.59	177.7769
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.923	0.003	0.010	0.06	0.03	0.0507
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.920	0.549	1.803	9.89	5.22	27.9841
Total:			**5.548**	**34.541**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 12:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

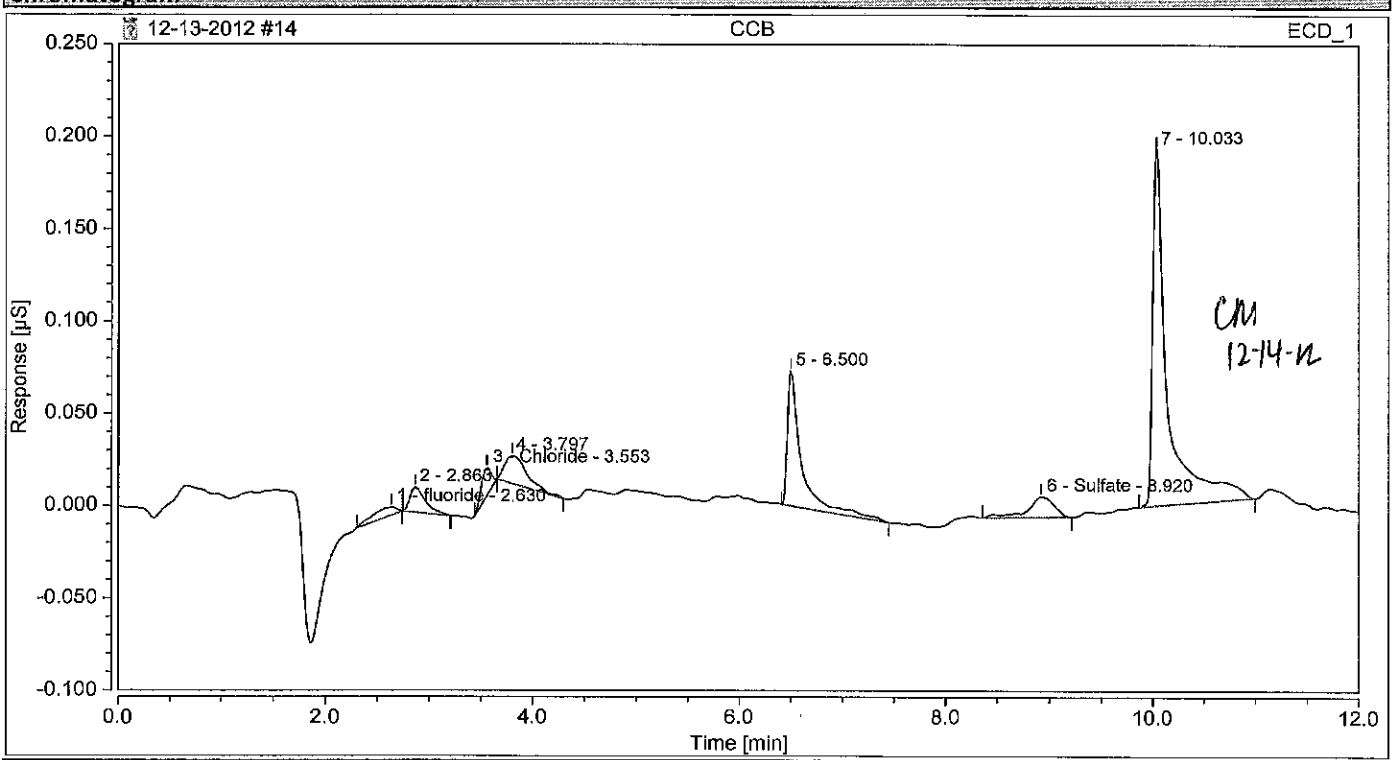
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.215	1.486	8.39	12.01	0.5859
2	Chloride	3.547	0.272	1.753	10.59	14.17	0.9696
3	Nitrite	4.140	0.606	3.439	23.61	27.80	0.9450
4	Bromide	5.230	0.110	0.555	4.28	4.49	1.0068
5	Nitrate	5.830	0.665	2.889	25.93	23.35	0.9988
6	Orthophosphate as P	7.460	0.191	0.602	7.46	4.86	0.9610
7	Sulfate	8.910	0.506	1.649	19.74	13.33	2.5826
Total:			**2.565**	**12.373**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 12:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

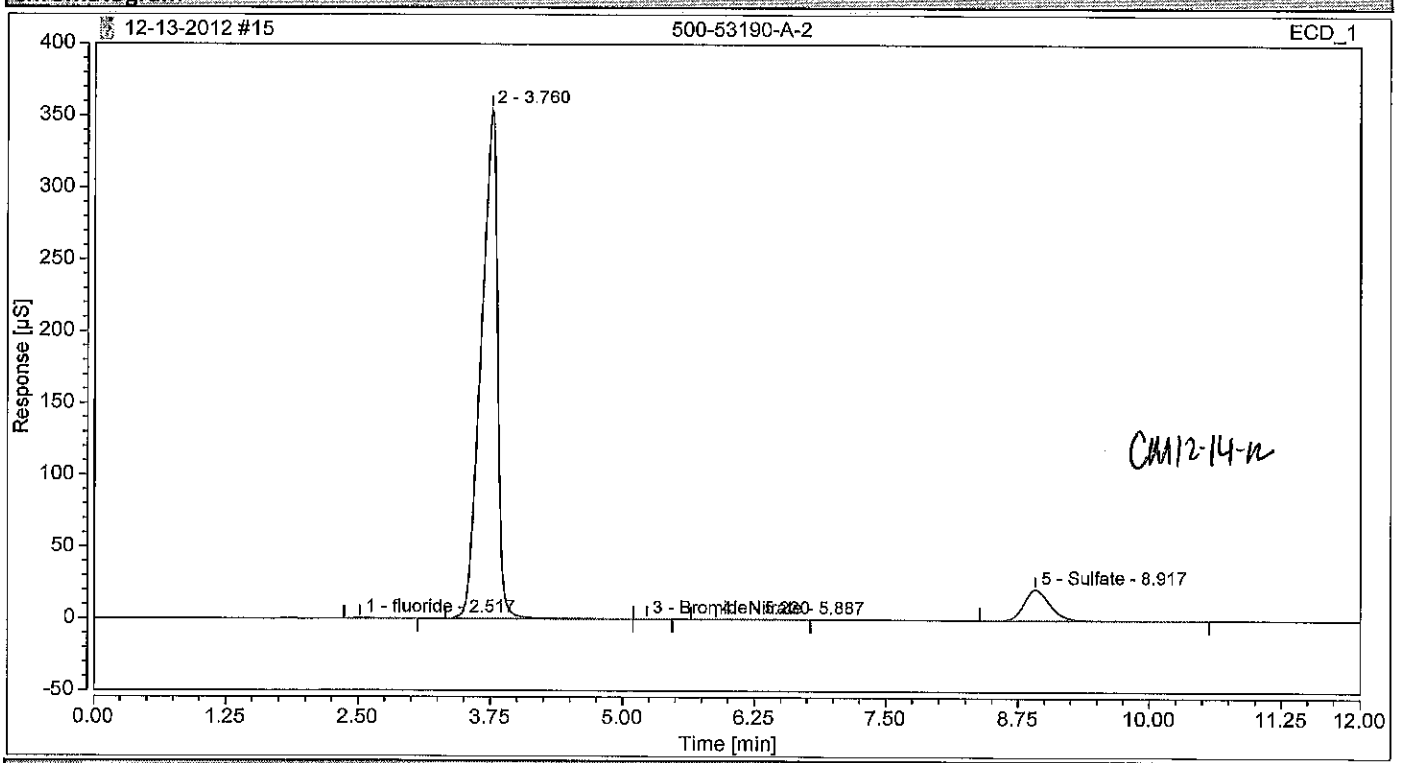
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.630	0.001	0.004	2.43	1.35	0.0038
2		2.863	0.002	0.014	4.11	4.18	n.a.
3	Chloride	3.553	0.002	0.015	2.92	4.56	0.0059
4		3.797	0.004	0.015	6.79	4.59	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
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.
5		6.500	0.011	0.073	20.07	22.48	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.920	0.003	0.011	5.93	3.45	0.0172
7		10.033	0.033	0.193	57.74	59.41	n.a.
Total:			**0.057**	**0.325**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 12:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

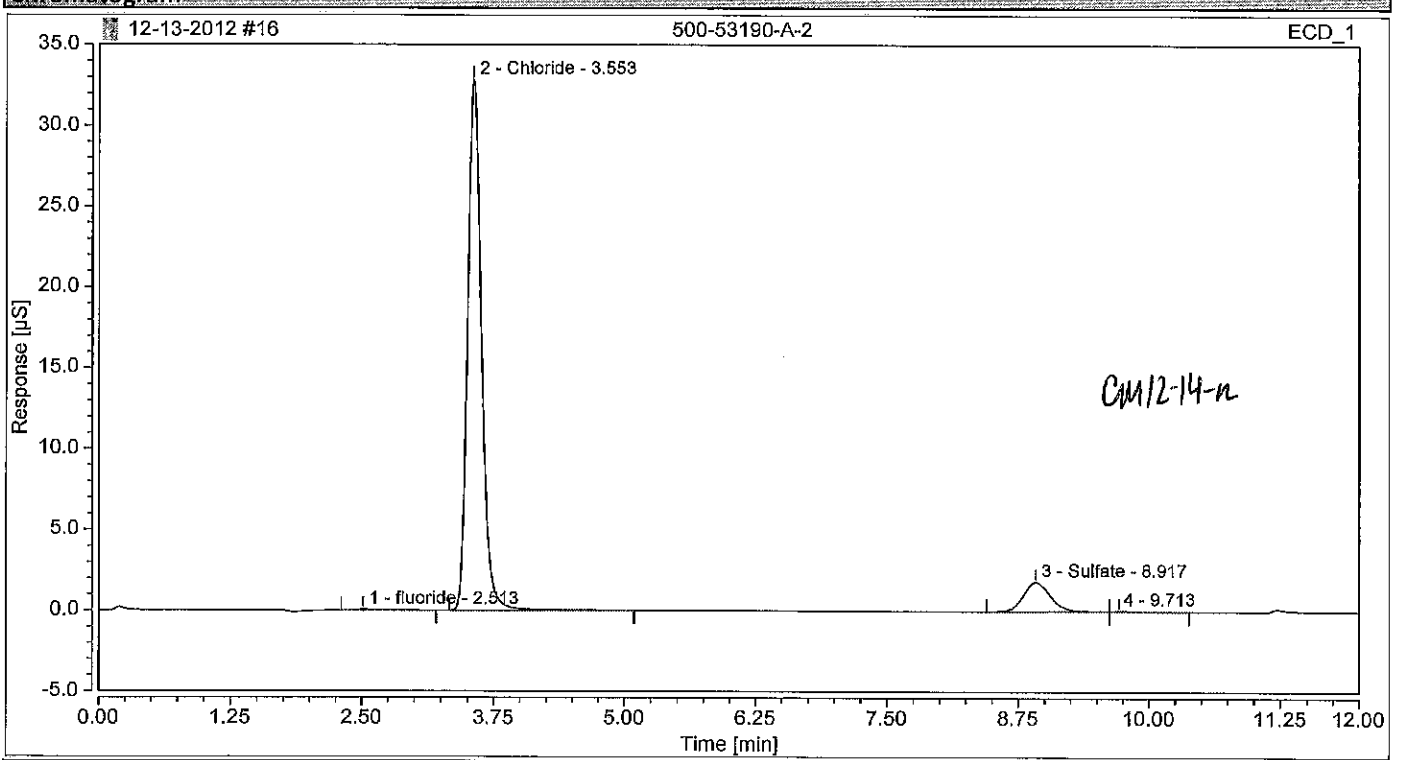
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.067	0.386	0.10	0.10	0.1828
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.760	63.748	354.907	90.93	94.14	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.230	0.005	0.032	0.01	0.01	0.0488
4	Nitrate	5.887	0.014	0.048	0.02	0.01	0.0216
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.917	6.274	21.625	8.95	5.74	31.9918
Total:			**70.109**	**376.997**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 12:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

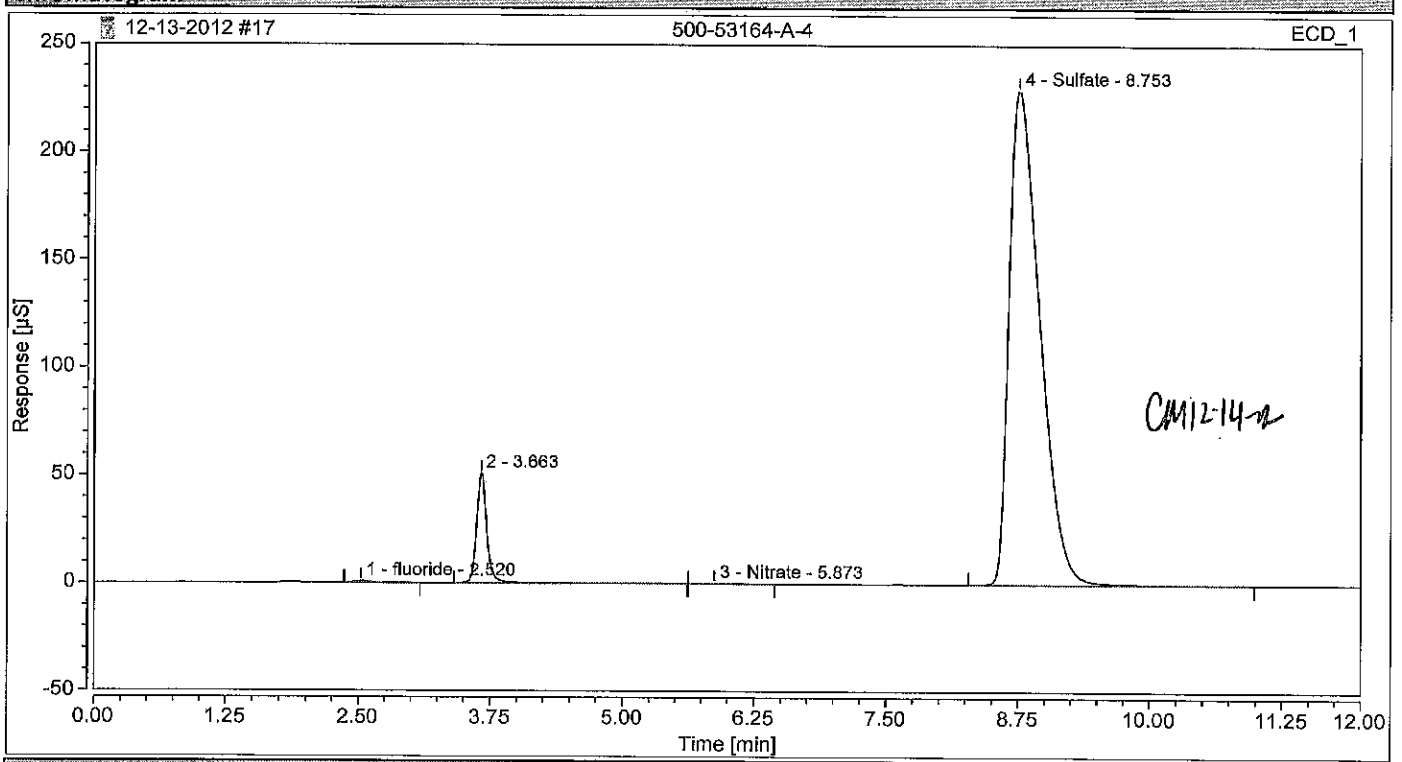
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.012	0.055	0.21	0.16	0.3192
2	Chloride OK	3.553	5.028	32.848	89.86	94.52	179.3932
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate KV	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.917	0.550	1.811	9.82	5.21	28.0315
4		9.713	0.006	0.037	0.11	0.11	n.a.
Total:			**5.595**	**34.751**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**GB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 13:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

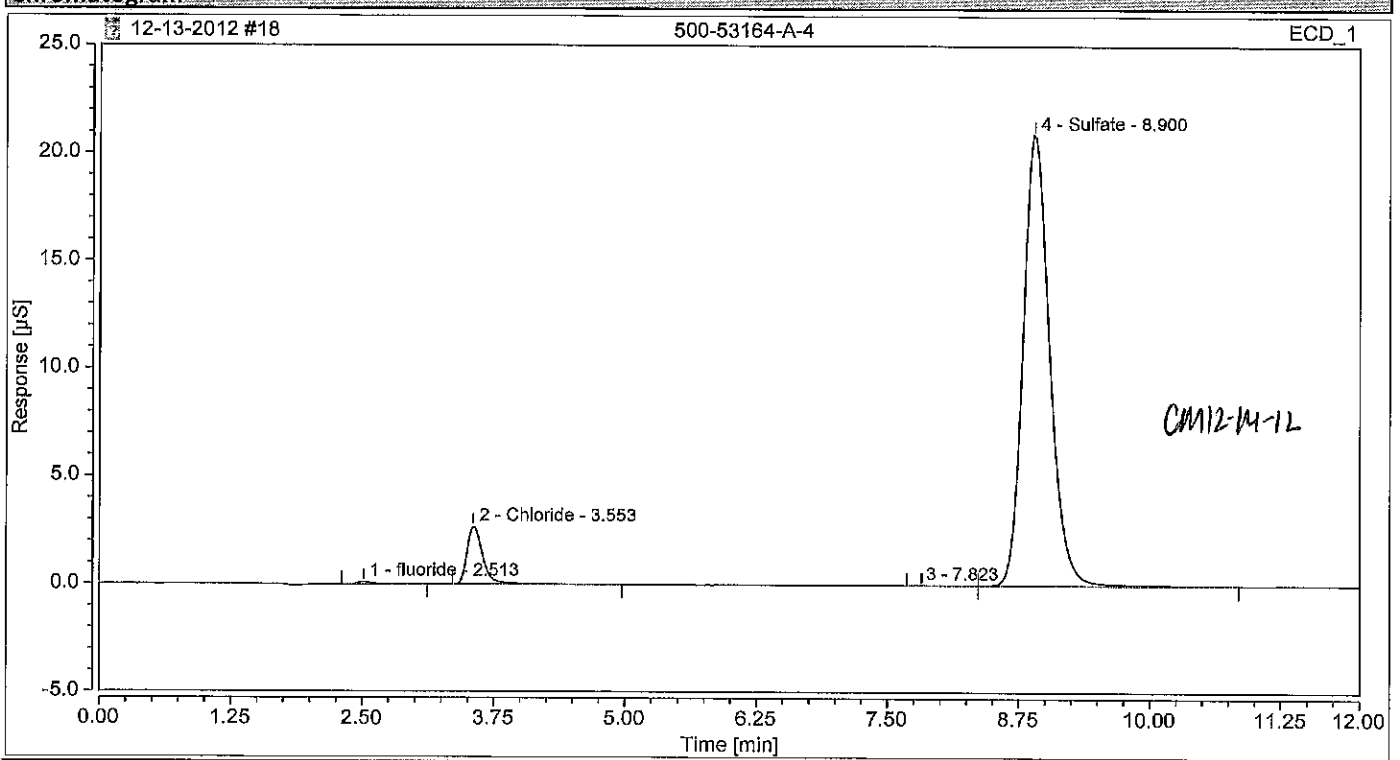
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride vm	2.520	0.134	0.781	0.16	0.28	0.3642
n.a.	Chloride DK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.663	5.762	50.957	6.92	18.12	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide vm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.873	0.016	0.070	0.02	0.02	0.0245
n.a.	Orthophosphate as P vm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate DK	8.753	77.343	229.357	92.90	81.57	394.4036
Total:			**83.255**	**281.165**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**GB6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 13:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

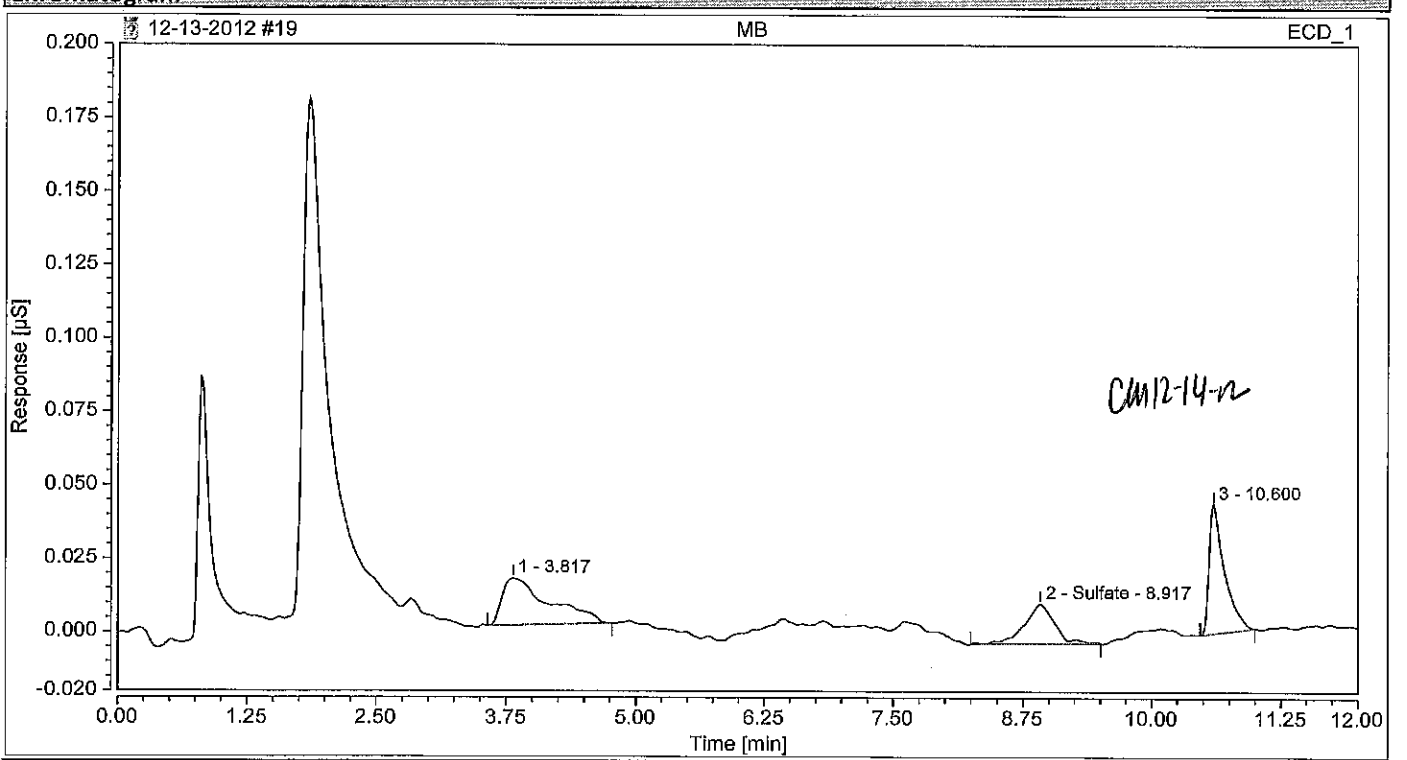
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.020	0.117	0.30	0.49	0.5387
2	Chloride	3.553	0.468	2.671	7.05	11.26	16.6989
n.a.	Nitrite Nc	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate Nc	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		7.823	0.003	0.011	0.05	0.05	n.a.
4	Sulfate Oc	8.900	6.150	20.922	92.61	88.20	313.6235
Total:			**6.641**	**23.722**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**12.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 13:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

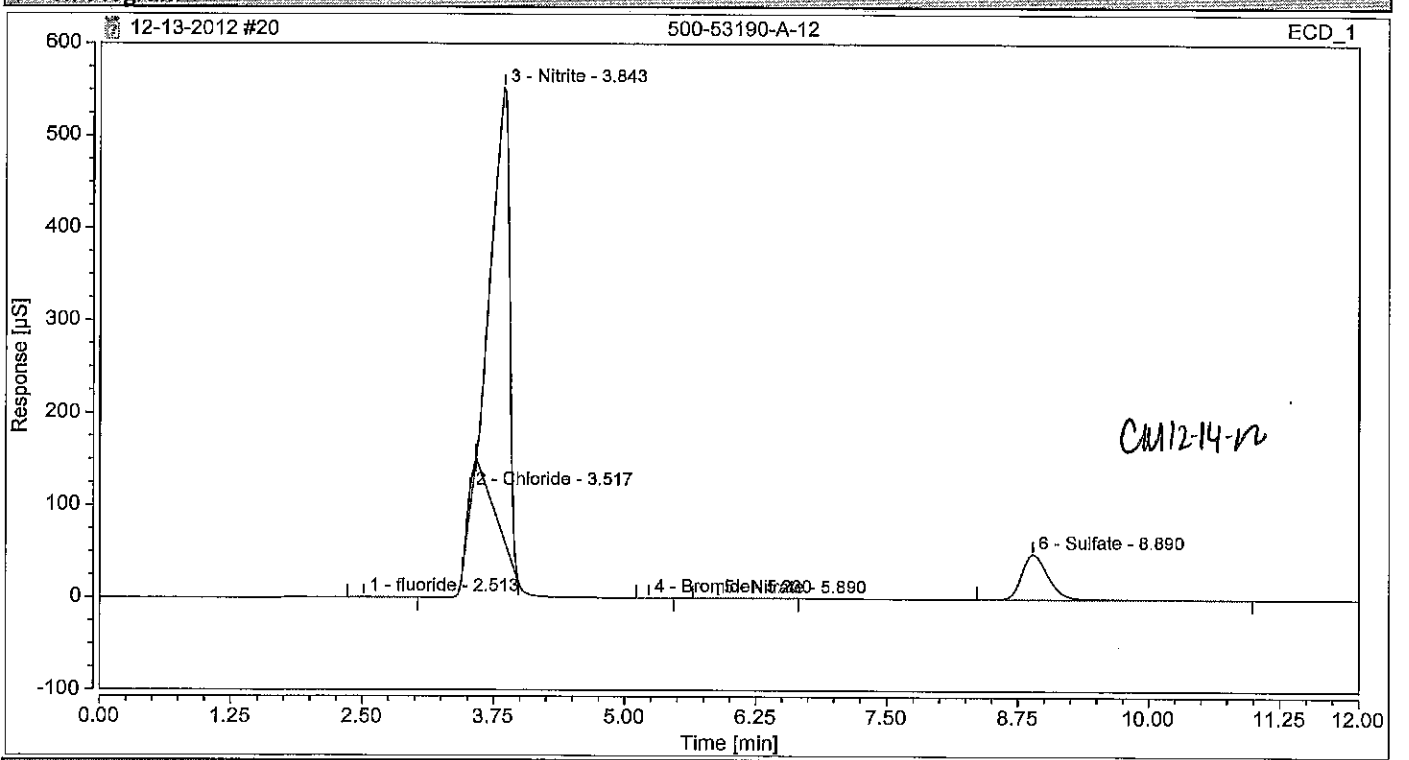
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.817	0.008	0.016	40.58	21.73	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	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.
2	Sulfate	8.917	0.005	0.014	22.67	18.49	0.0237
3		10.600	0.008	0.044	36.76	59.78	n.a.
Total:			**0.021**	**0.073**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-12**	*Run Time (min):*	**12.00**
Vial Number:	**GC1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 13:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

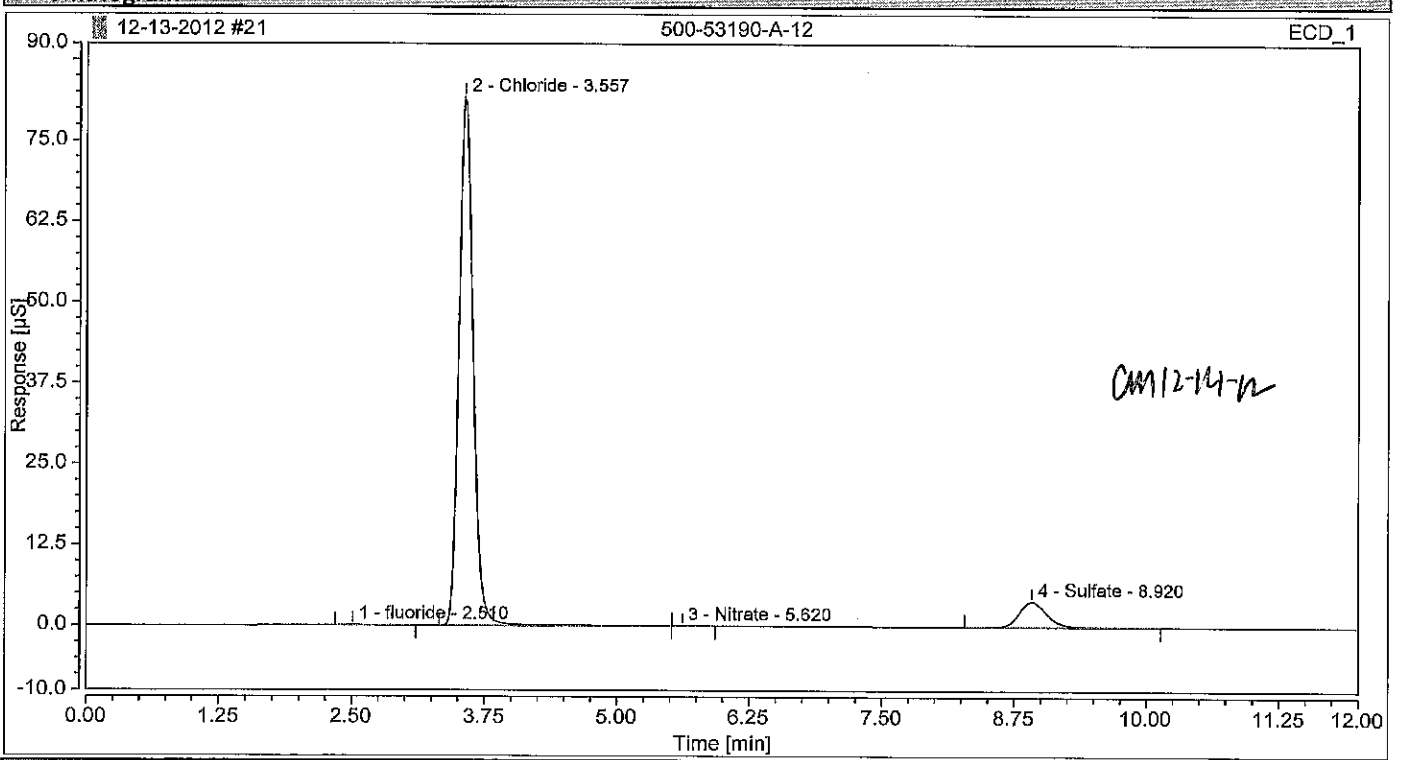
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.109	0.620	0.10	0.11	0.2967
2	Chloride	3.517	1.493	21.497	1.37	3.84	5.3273
3	Nitrite	3.843	92.872	489.048	85.45	87.33	144.9010
4	Bromide	5.230	0.006	0.036	0.01	0.01	0.0544
5	Nitrate	5.890	0.013	0.039	0.01	0.01	0.0194
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.890	14.188	48.737	13.05	8.70	72.3480
Total:			**108.680**	**559.976**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-12**	*Run Time (min):*	**12.00**
Vial Number:	**GC2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 14:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

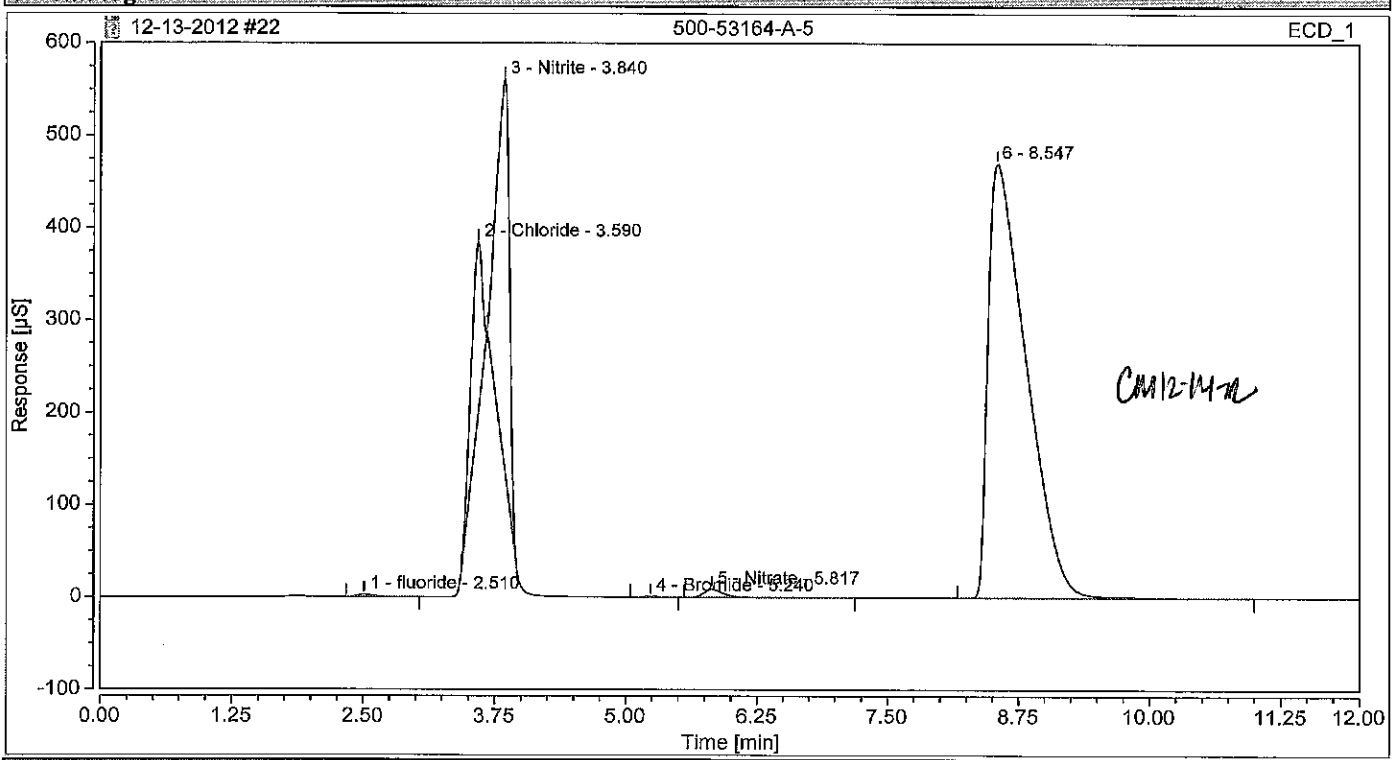
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.013	0.081	0.10	0.09	0.3600
2	Chloride m	3.557	12.590	81.767	91.20	95.29	449.1858
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.620	0.004	0.025	0.03	0.03	0.0563
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	8.920	1.198	3.932	8.68	4.58	61.0999
Total:			**13.805**	**85.805**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GC3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 14:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

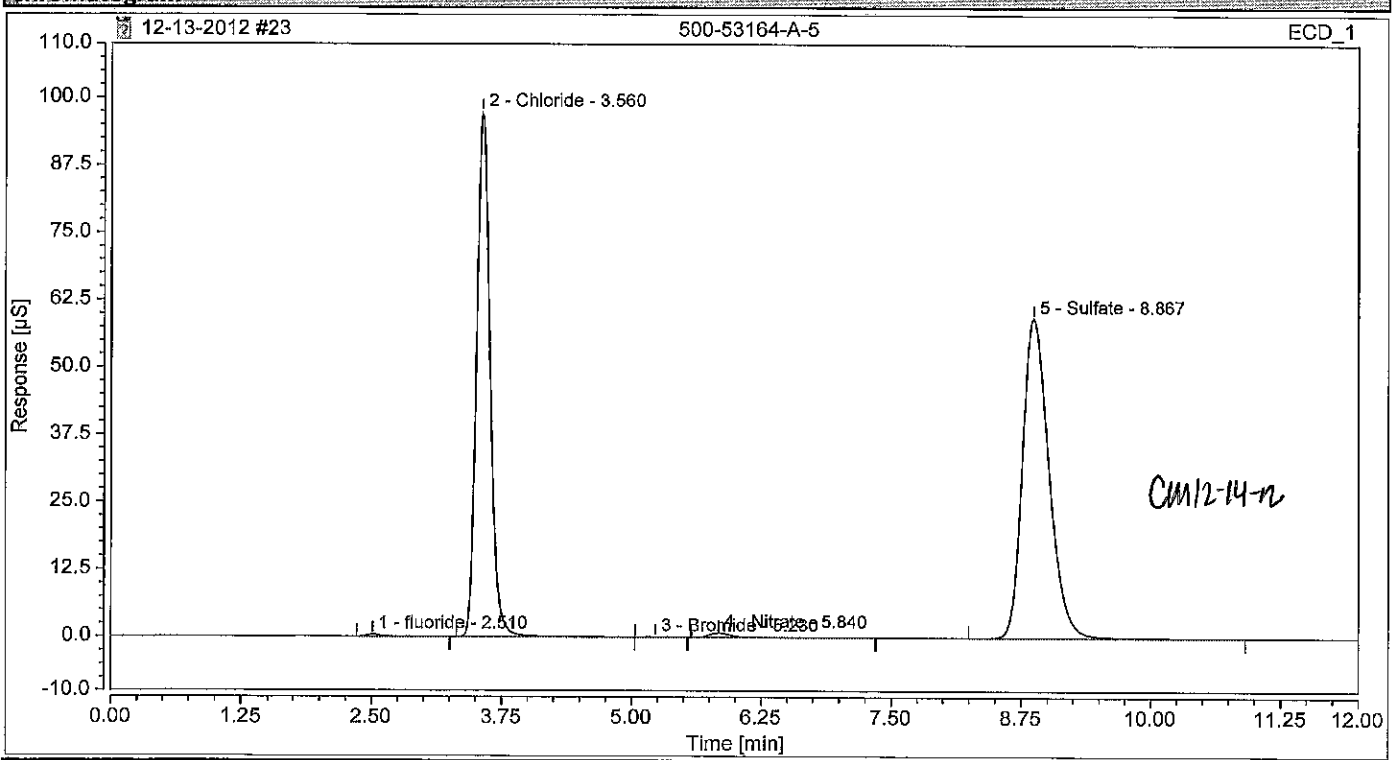
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.467	2.732	0.17	0.25	1.2714
2	Chloride OK	3.590	22.393	185.631	7.93	17.05	79.8960
3	Nitrite OK	3.840	58.529	421.266	20.72	38.68	91.3177
4	Bromide m	5.240	0.121	0.670	0.04	0.06	1.1089
5	Nitrate	5.817	1.905	8.669	0.67	0.80	2.8611
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		8.547	199.104	470.024	70.47	43.16	n.a.
n.a.	Sulfate OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**282.519**	**1088.991**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GC4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 14:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

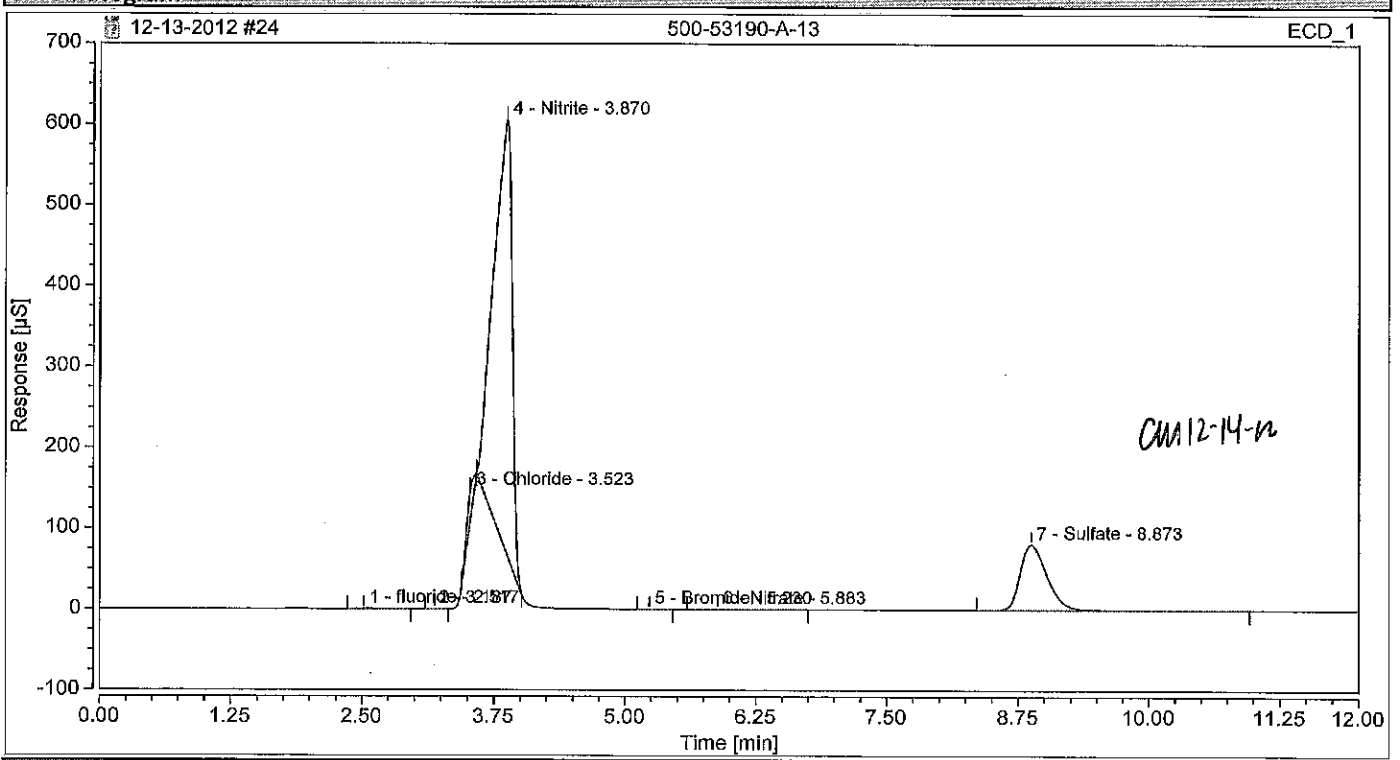
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.069	0.422	0.21	0.27	1.8820
2	Chloride	3.560	14.674	97.409	45.18	61.64	523.5595
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.230	0.013	0.066	0.04	0.04	1.1704
4	Nitrate	5.840	0.198	0.815	0.61	0.52	2.9706
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.867	17.525	59.322	53.96	37.54	893.6511
Total:			**32.479**	**158.034**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-13**	*Run Time (min):*	**12.00**
Vial Number:	**GC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 14:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

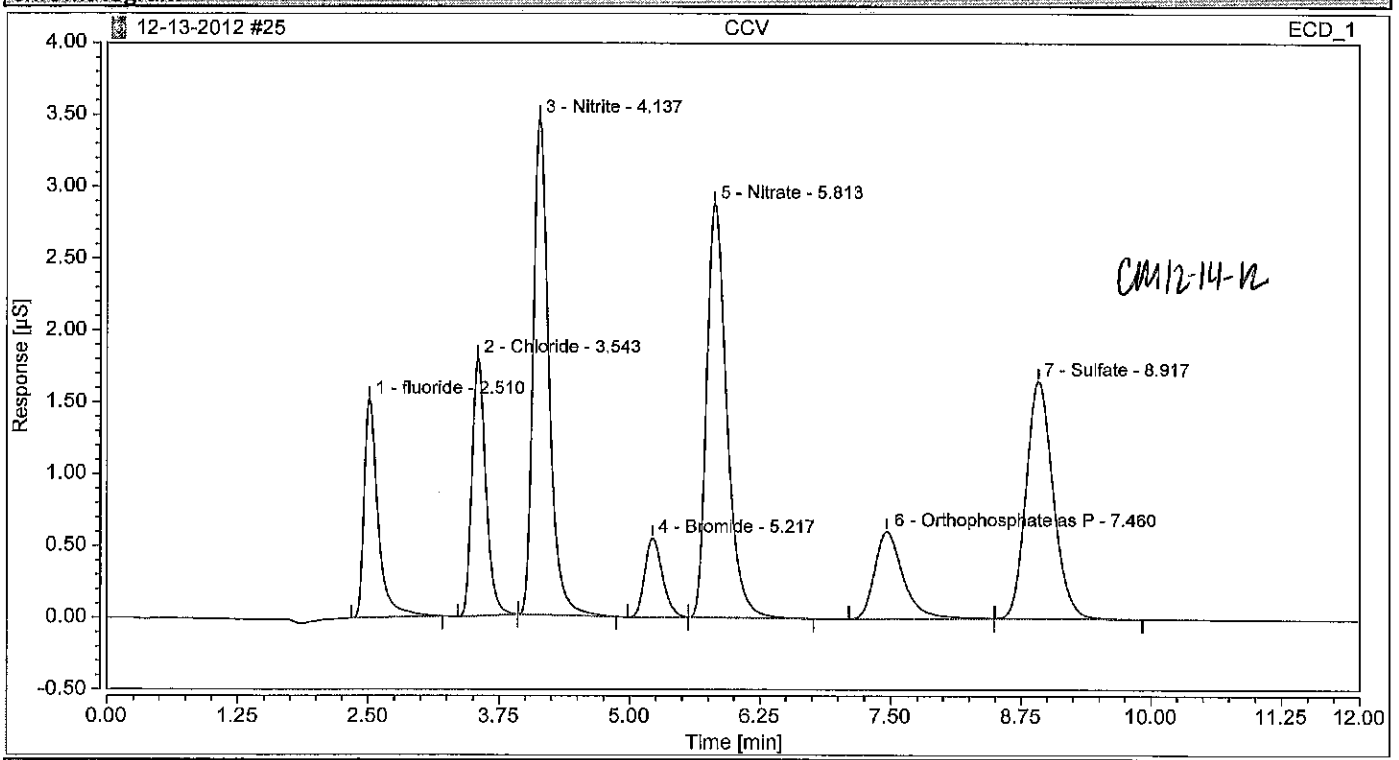
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.098	0.556	0.07	0.08	0.2674
2		3.187	0.020	0.183	0.01	0.03	n.a.
3	Chloride m	3.523	2.798	37.676	2.06	5.73	9.9841
4	Nitrite m	3.870	108.858	537.586	80.08	81.77	169.8429
5	Bromide m	5.230	0.006	0.038	0.00	0.01	0.0572
6	Nitrate	5.883	0.021	0.069	0.02	0.01	0.0320
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate m	8.873	24.129	81.325	17.75	12.37	123.0450
Total:			**135.931**	**657.432**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 14:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

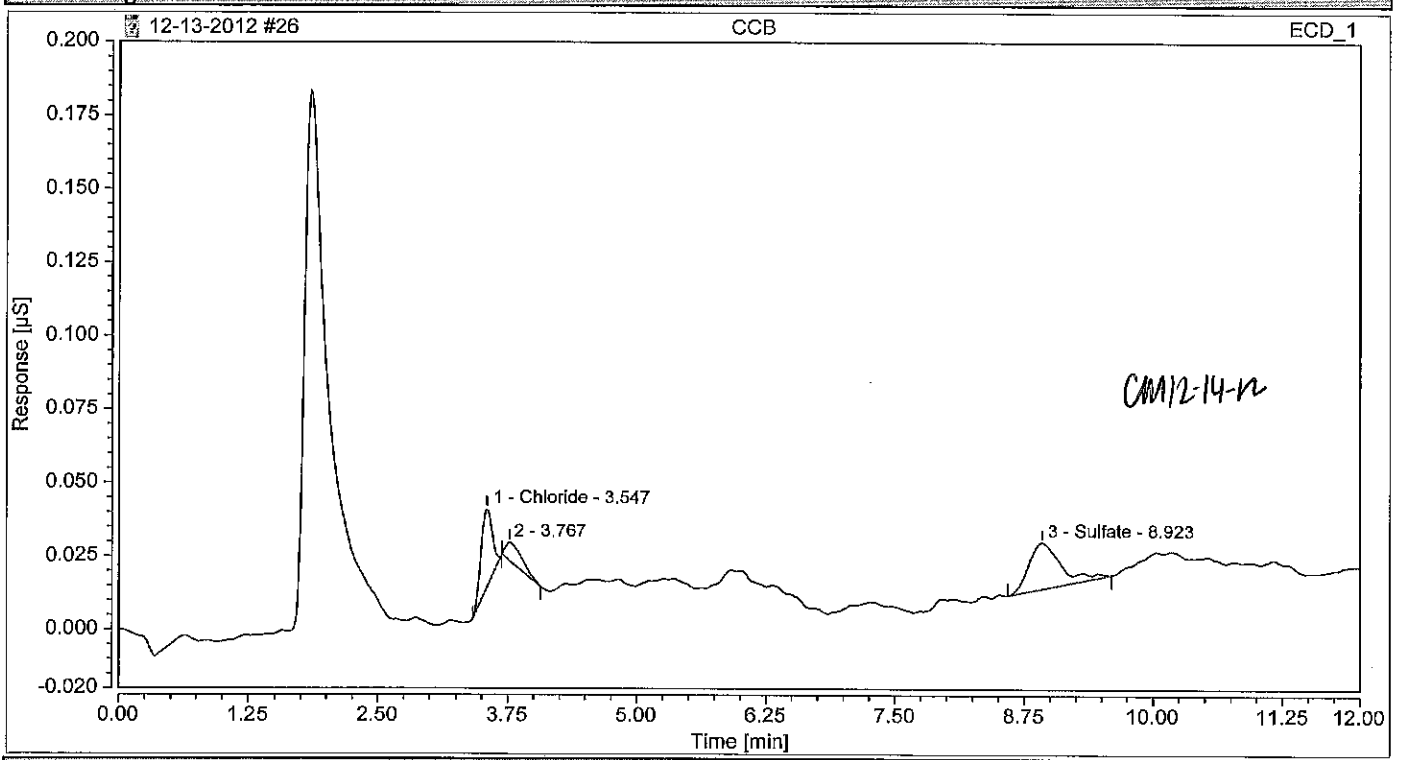
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.236	1.519	9.18	12.20	0.6423
2	Chloride	3.543	0.276	1.793	10.75	14.40	0.9853
3	Nitrite	4.137	0.606	3.458	23.57	27.75	0.9449
4	Bromide	5.217	0.108	0.550	4.20	4.42	0.9893
5	Nitrate	5.813	0.650	2.879	25.31	23.11	0.9768
6	Orthophosphate as P	7.460	0.191	0.606	7.45	4.87	0.9614
7	Sulfate	8.917	0.502	1.652	19.55	13.26	2.5622
Total:			**2.570**	**12.458**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 15:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

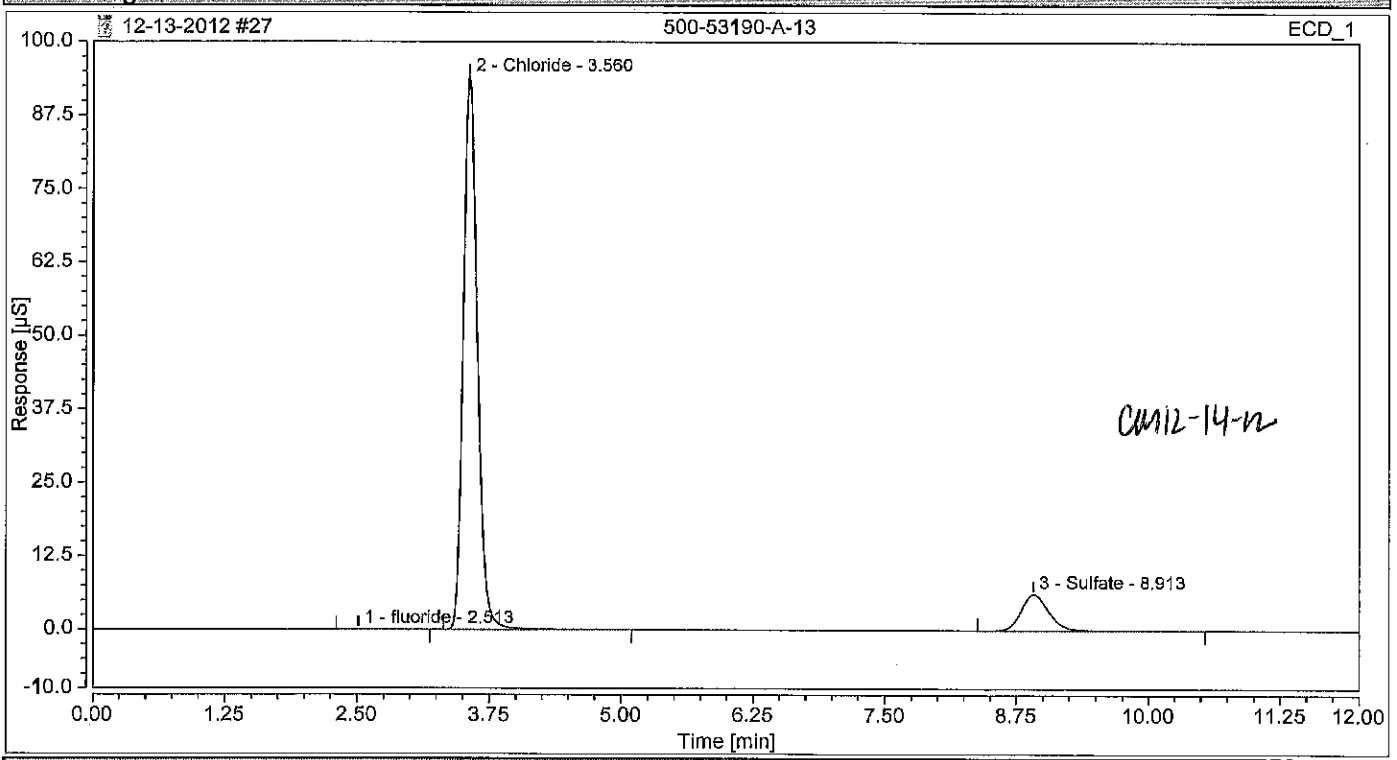
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.547	0.003	0.027	32.34	54.80	0.0117
2		3.767	0.001	0.006	12.23	12.80	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	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.
3	Sulfate	8.923	0.006	0.016	55.42	32.40	0.0288
Total:			**0.010**	**0.049**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-13**	*Run Time (min):*	**12.00**
Vial Number:	**GC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 15:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

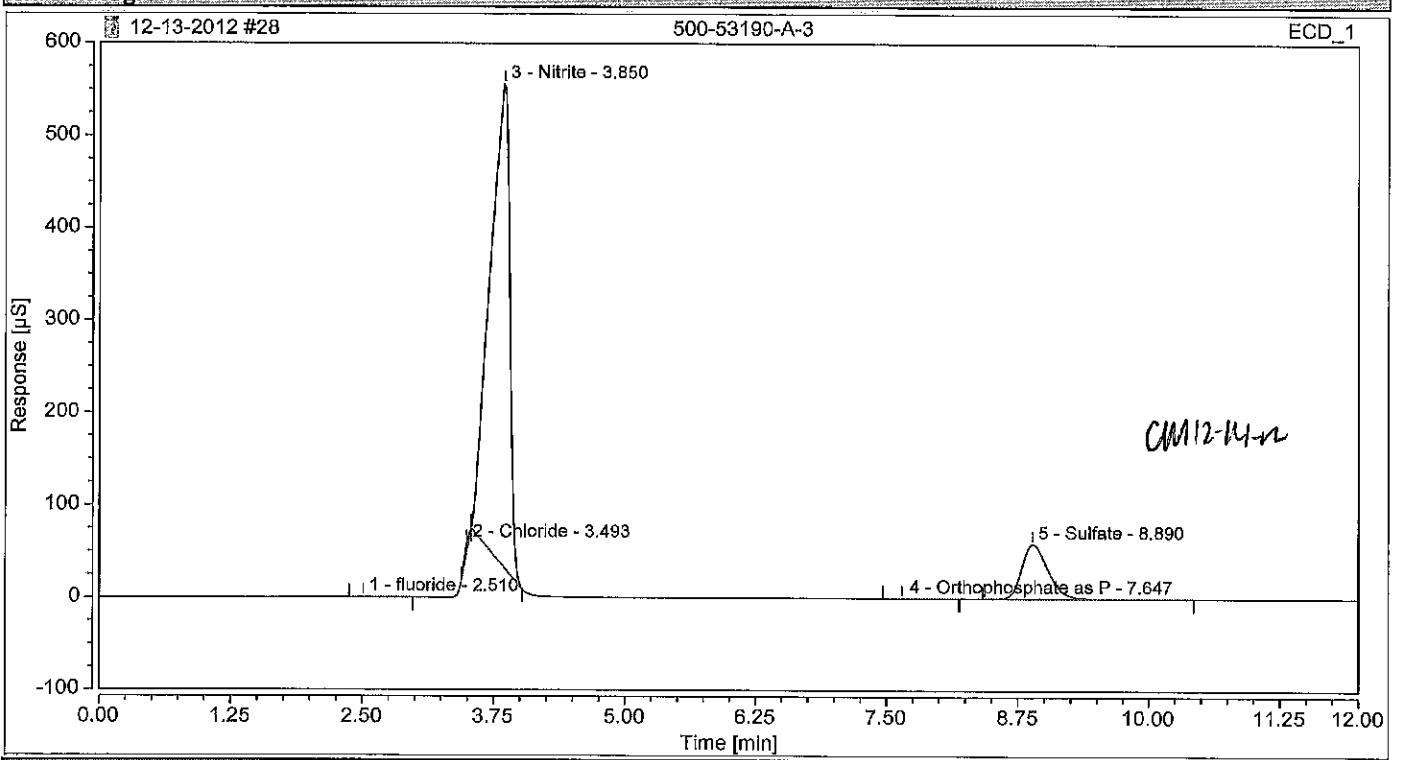
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.016	0.082	0.10	0.08	0.4399
2	Chloride OK	3.560	14.425	94.035	88.45	93.75	514.6743
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate RE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	8.913	1.868	6.191	11.45	6.17	95.2388
Total:			**16.309**	**100.308**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GB7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 15:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

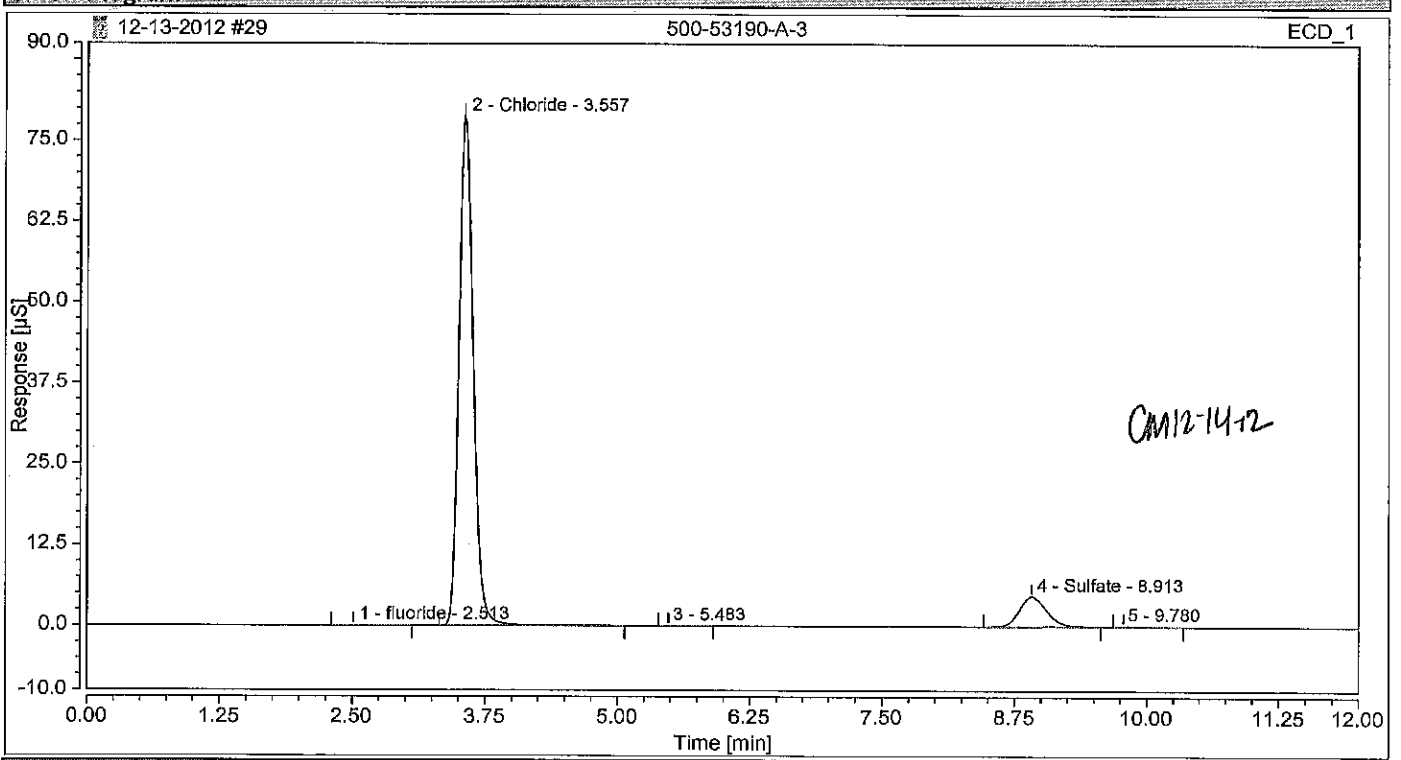
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.079	0.493	0.06	0.08	0.2142
2	Chloride 0 m	3.493	0.450	8.899	0.34	1.50	1.6066
3	Nitrite m	3.850	113.297	524.074	86.35	88.39	176.7687
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Orthophosphate as P m	7.647	0.071	0.200	0.05	0.03	0.3549
5	Sulfate 0 m	8.890	17.312	59.277	13.19	10.00	88.2818
Total:			**131.209**	**592.943**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GB8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 15:50**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

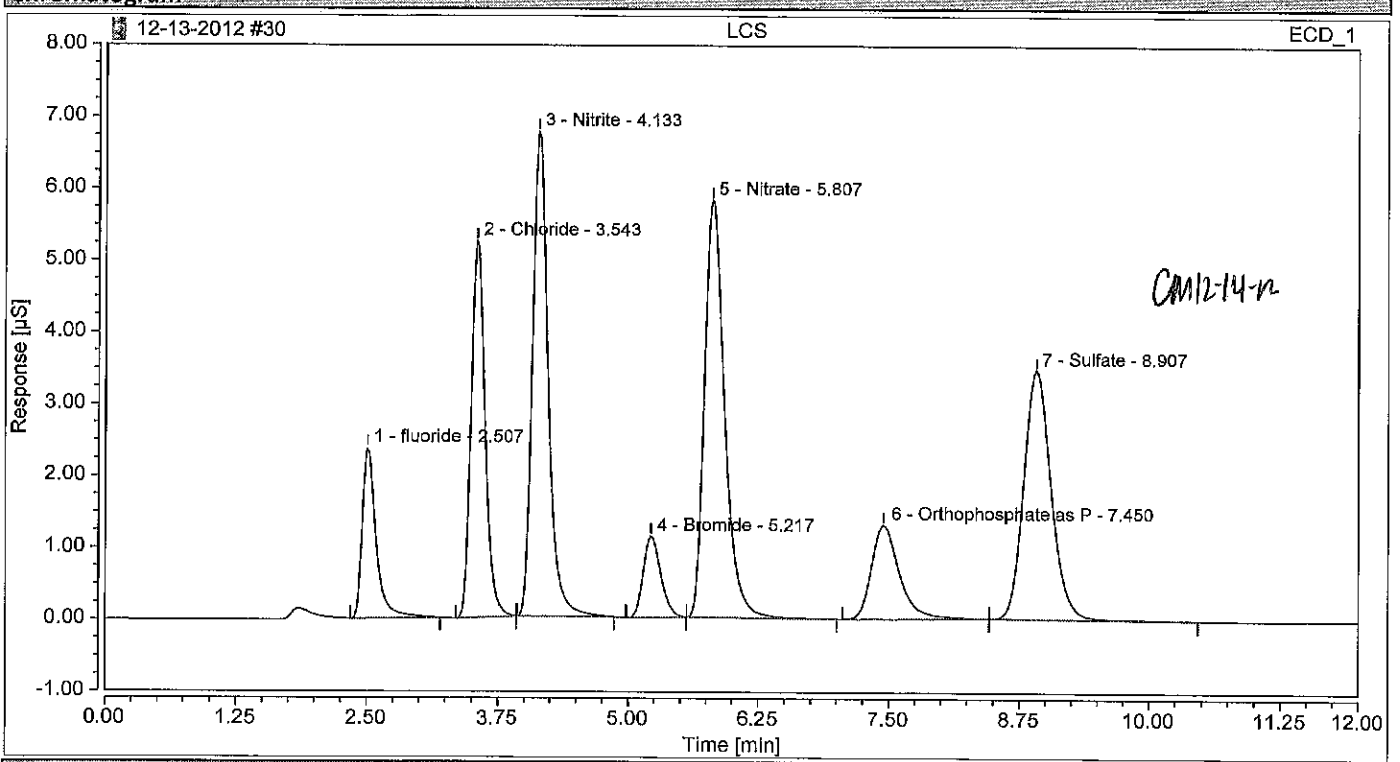
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.010	0.053	0.08	0.06	0.2790
2	Chloride	3.557	12.220	78.740	89.61	94.26	436.0096
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		5.483	0.003	0.018	0.03	0.02	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	8.913	1.391	4.635	10.20	5.55	70.9450
5		9.780	0.012	0.087	0.08	0.10	n.a.
Total:			**13.637**	**83.533**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**12.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 16:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

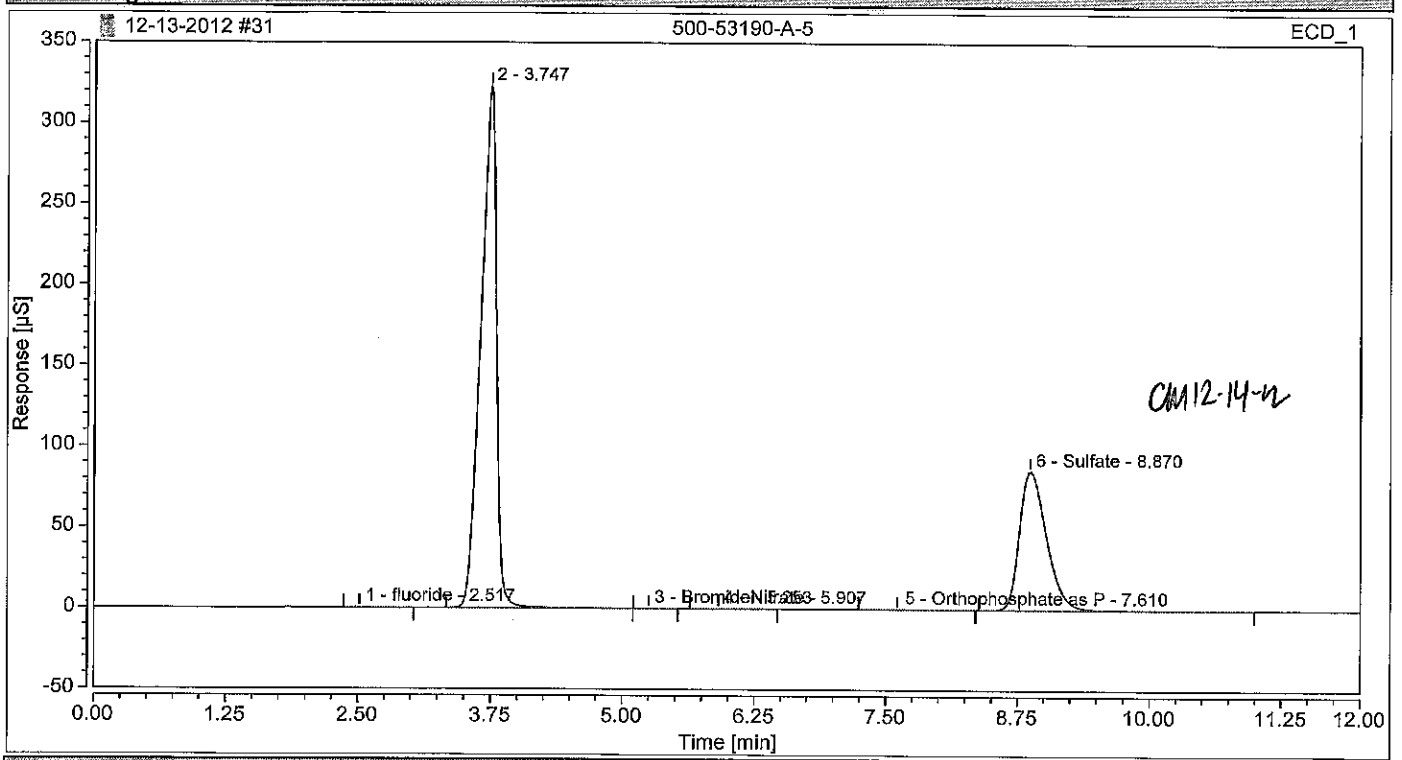
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.368	2.368	6.86	9.09	1.0011
2	Chloride	3.543	0.811	5.241	15.14	20.11	2.8950
3	Nitrite	4.133	1.184	6.751	22.09	25.90	1.8478
4	Bromide	5.217	0.221	1.128	4.12	4.33	2.0267
5	Nitrate	5.807	1.308	5.808	24.40	22.29	1.9641
6	Orthophosphate as P	7.450	0.409	1.307	7.63	5.01	2.0527
7	Sulfate	8.907	1.059	3.459	19.76	13.27	5.4021
Total:			**5.360**	**26.062**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 16:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

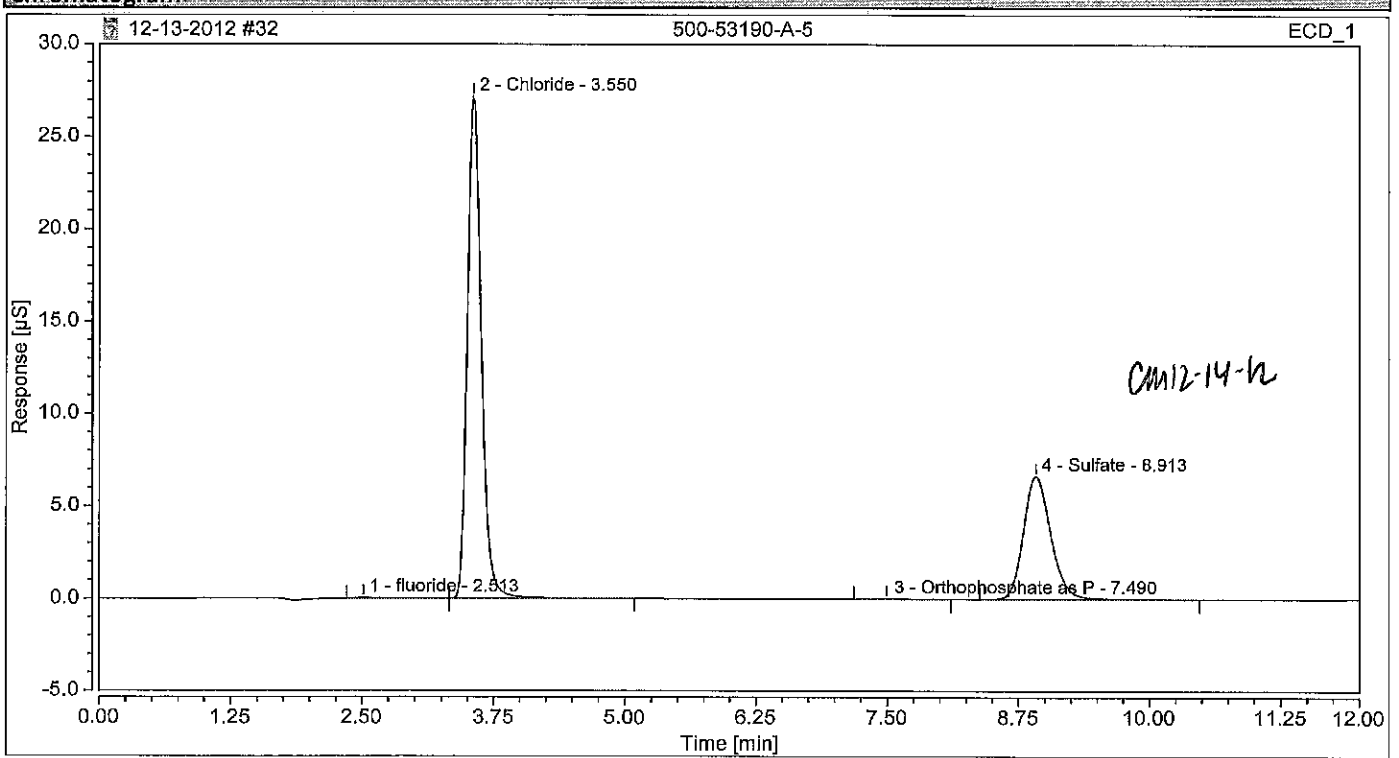
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.072	0.416	0.09	0.10	0.1950
n.a.	Chloride ok	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.747	54.575	322.890	67.86	78.89	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.253	0.007	0.040	0.01	0.01	0.0626
4	Nitrate	5.907	0.009	0.033	0.01	0.01	0.0138
5	Orthophosphate as P m	7.610	0.028	0.073	0.03	0.02	0.1390
6	Sulfate ok	8.870	25.733	85.856	32.00	20.98	131.2242
Total:			**80.424**	**409.307**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GC8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 16:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

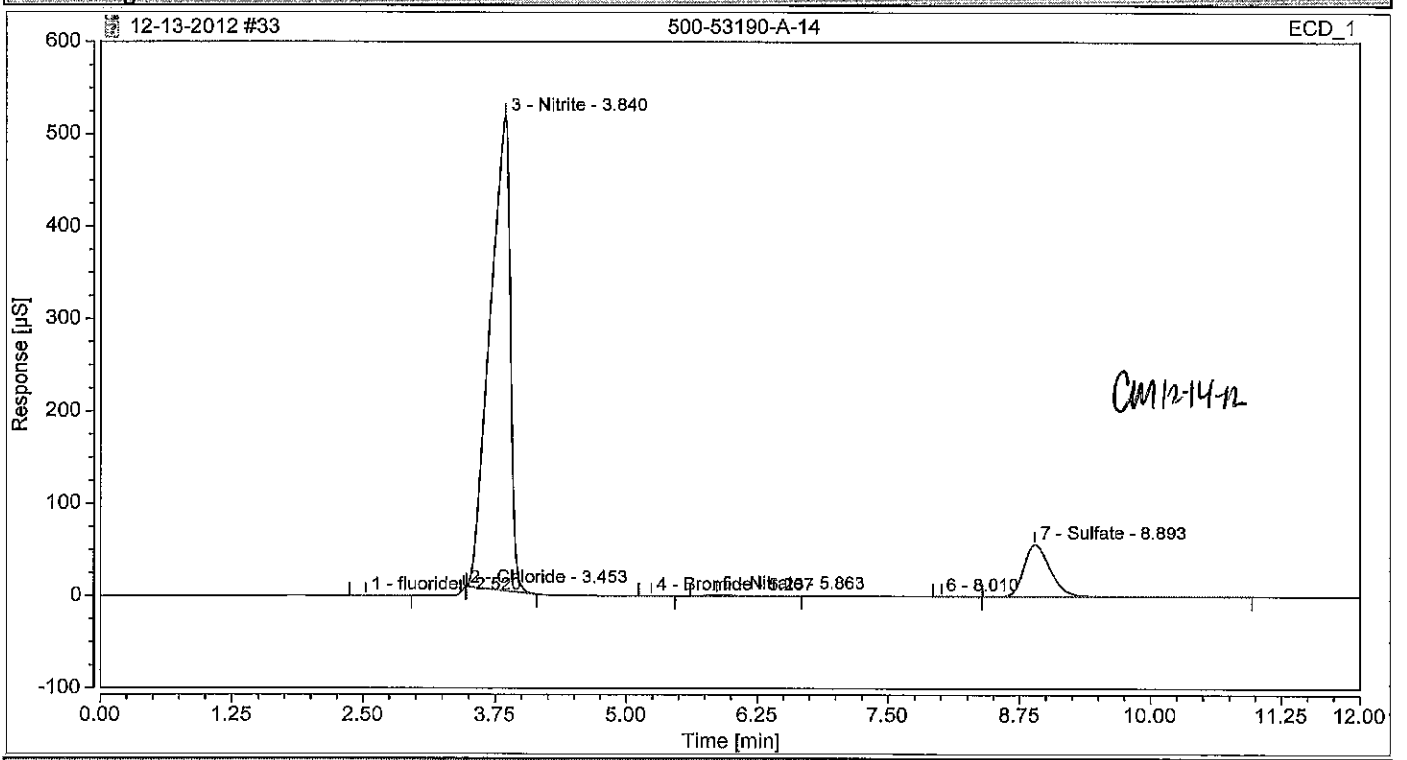
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.012	0.050	0.19	0.15	0.3199
2	Chloride	3.550	4.191	27.182	67.25	80.11	149.5359
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Orthophosphate as P	7.490	0.011	0.033	0.18	0.10	0.5657
4	Sulfate	8.913	2.018	6.664	32.38	19.64	102.8952
Total:			**6.232**	**33.929**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-14**	*Run Time (min):*	**12.00**
Vial Number:	**GD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 16:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

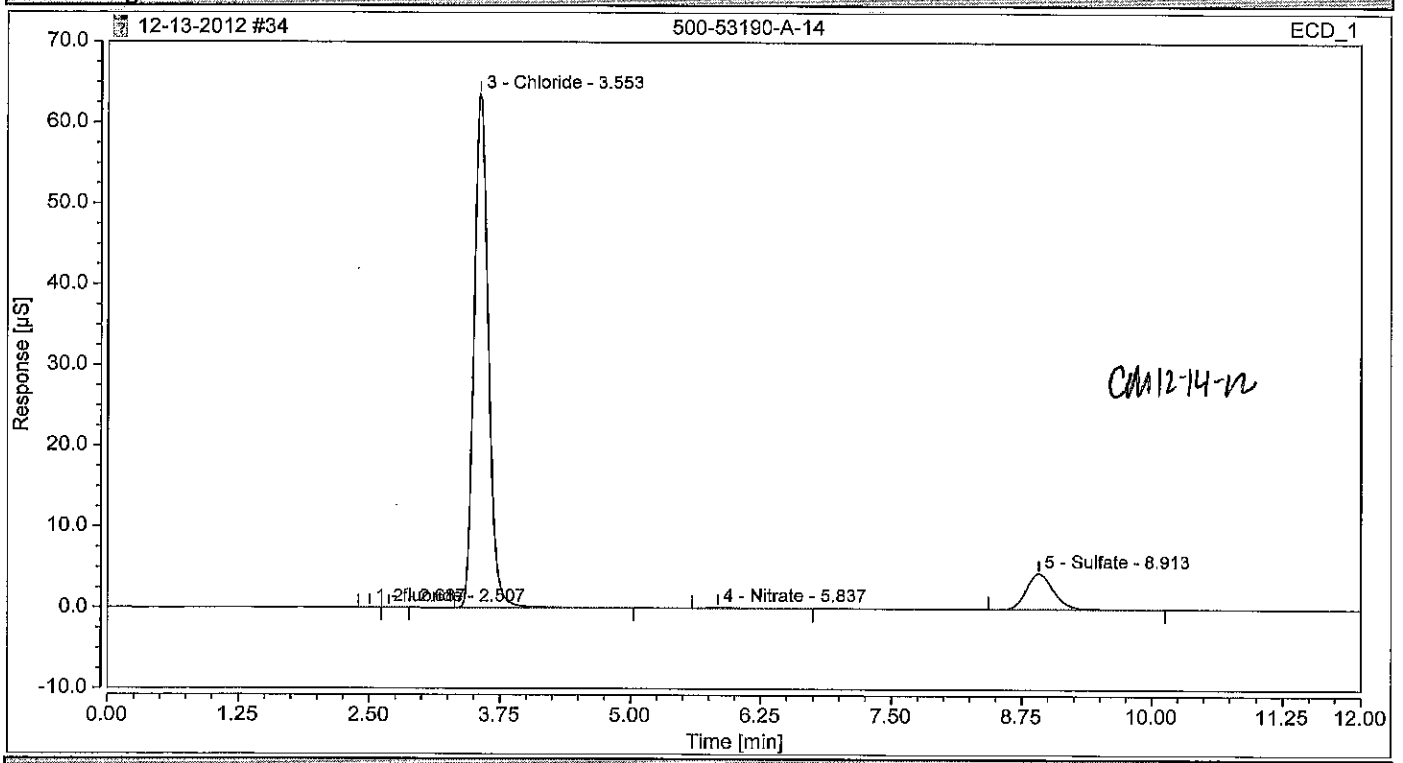
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.053	0.301	0.04	0.05	0.1434
2	Chloride	3.453	0.011	0.400	0.01	0.07	0.0407
3	Nitrite	3.840	114.361	513.546	87.11	89.72	178.4286
4	Bromide	5.237	0.006	0.035	0.00	0.01	0.0524
5	Nitrate	5.863	0.354	1.581	0.27	0.28	0.5323
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		8.010	0.006	0.031	0.00	0.01	n.a.
7	Sulfate	8.893	16.498	56.483	12.57	9.87	84.1310
Total:			**131.289**	**572.377**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-14**	*Run Time (min):*	**12.00**
Vial Number:	**GD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 16:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

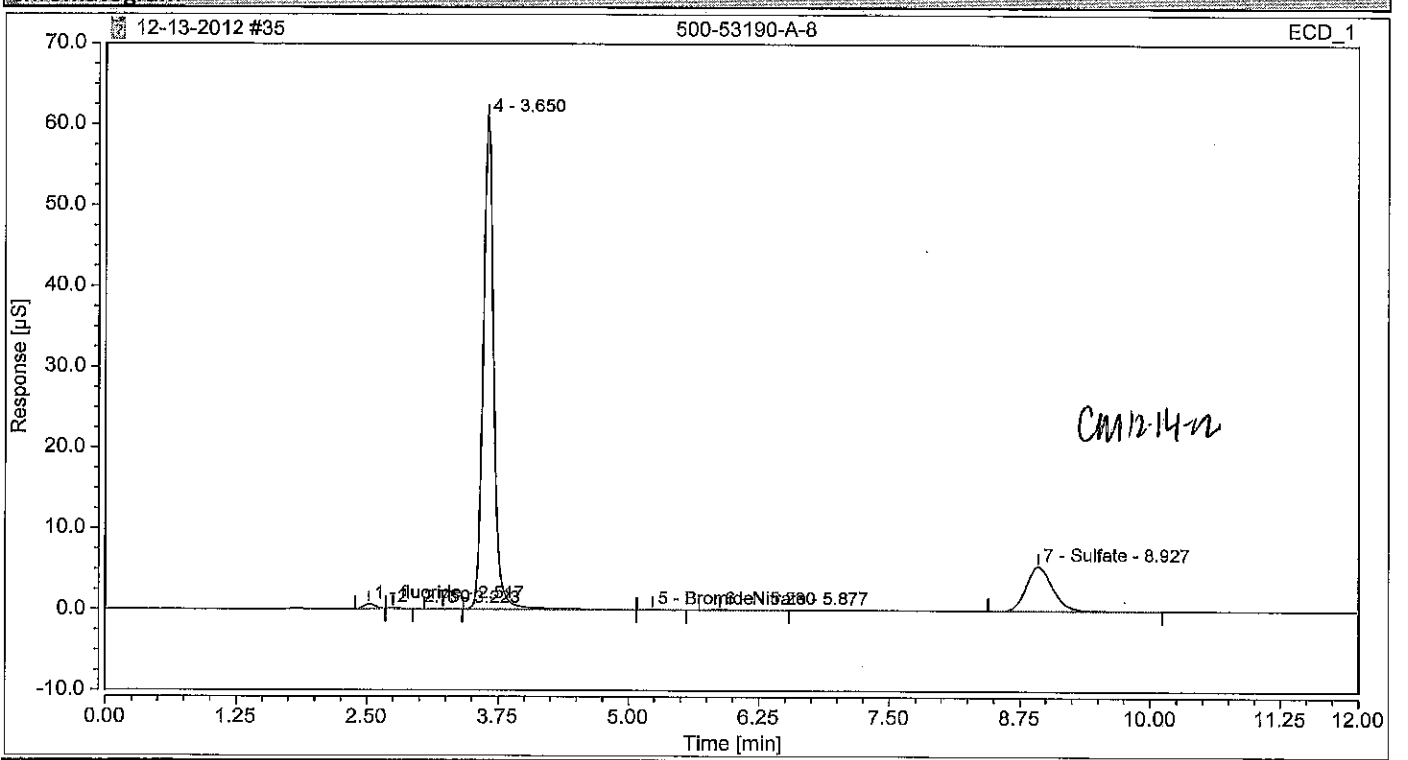
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.507	0.004	0.034	0.03	0.05	0.0989
2		2.687	0.001	0.012	0.01	0.02	n.a.
3	Chloride m	3.553	10.070	63.570	87.85	93.20	359.3000
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate m	5.837	0.038	0.148	0.33	0.22	0.5735
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.913	1.349	4.440	11.77	6.51	68.7919
Total:			**11.463**	**68.205**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-8**	*Run Time (min):*	**12.00**
Vial Number:	**GD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 17:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

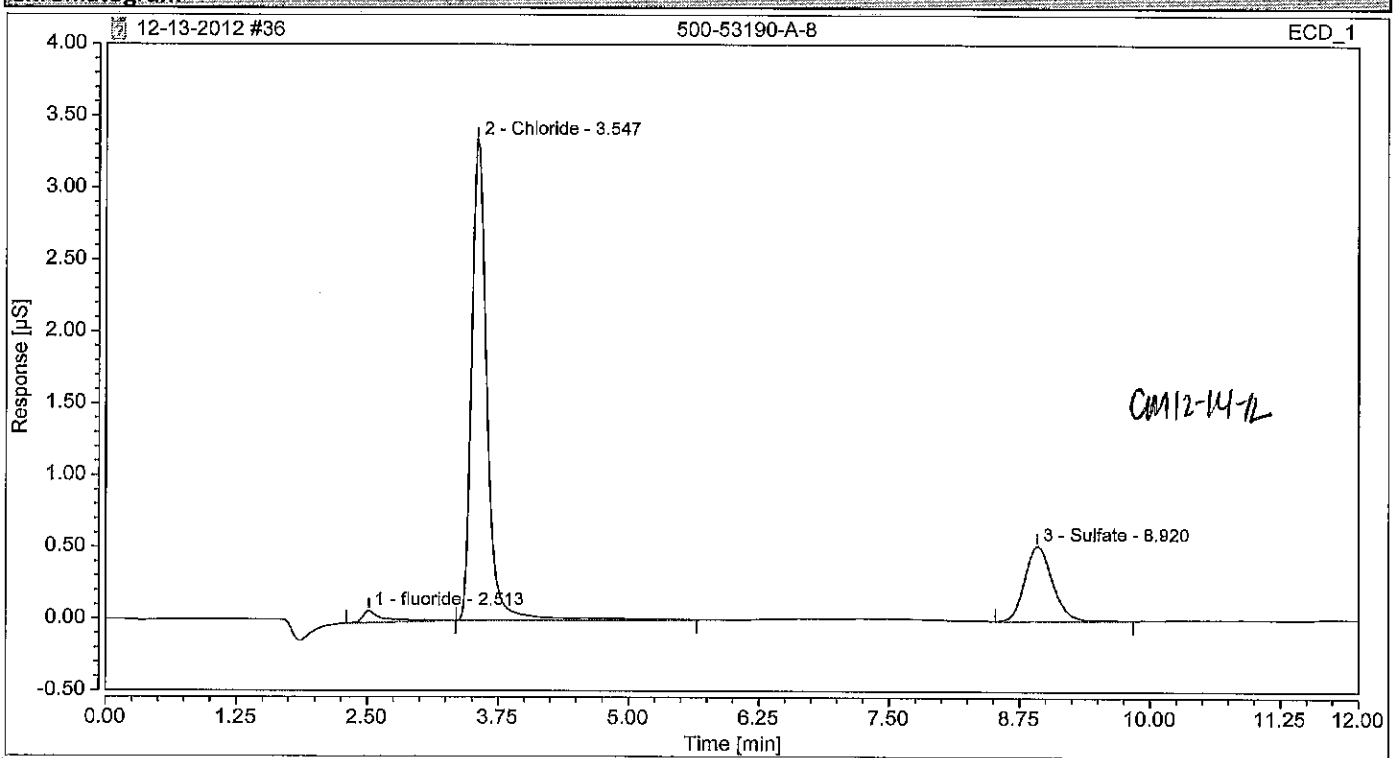
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.076	0.575	0.86	0.86	0.2057
2		2.750	0.007	0.055	0.08	0.08	n.a.
3		3.223	0.010	0.044	0.11	0.07	n.a.
n.a.	Chloride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		3.650	7.070	60.885	80.15	90.71	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Bromide m	5.230	0.004	0.018	0.04	0.03	0.0327
6	Nitrate	5.877	0.009	0.034	0.11	0.05	0.0142
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate	8.927	1.646	5.510	18.66	8.21	8.3920
Total:			**8.822**	**67.123**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-8**	*Run Time (min):*	**12.00**
Vial Number:	**GD4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 17:23**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

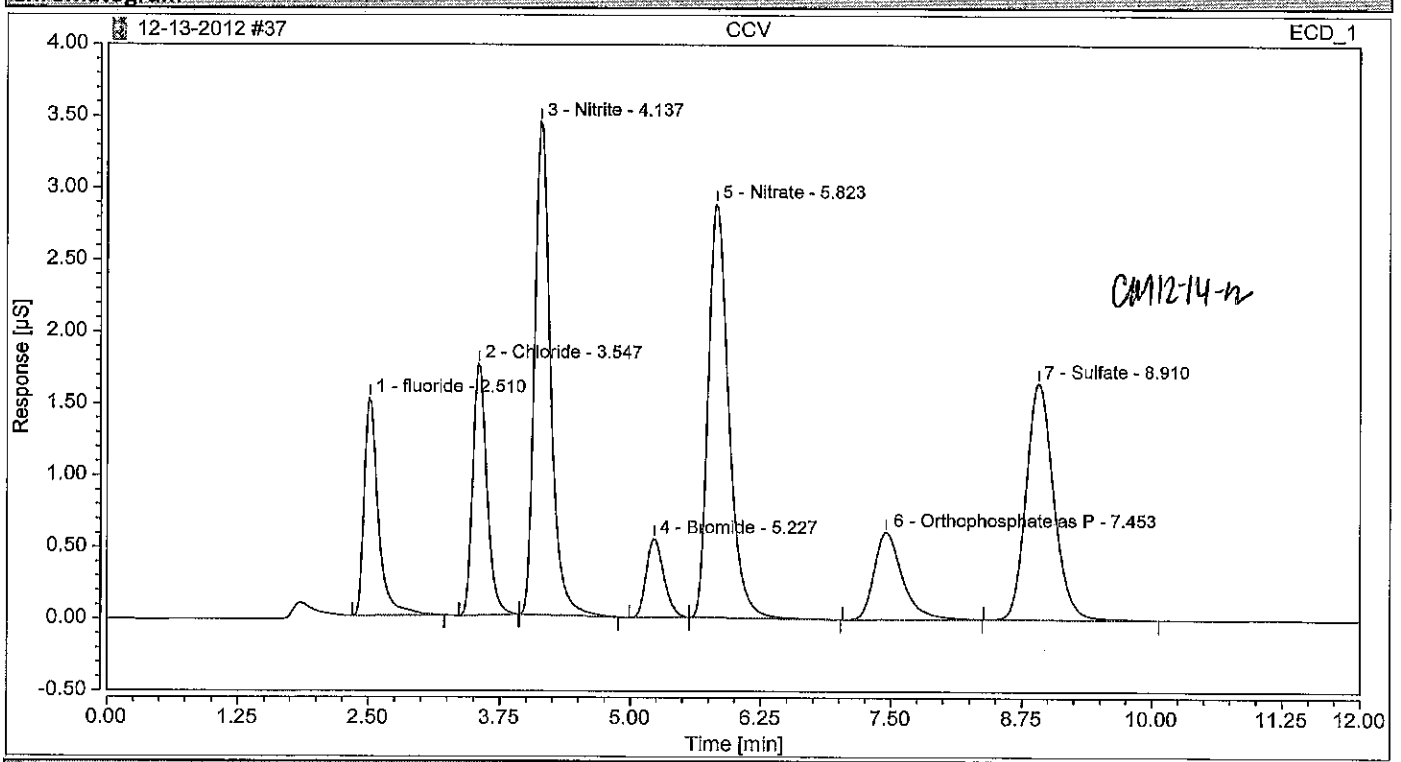
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.019	0.082	2.57	2.07	0.5239
2	Chloride	3.547	0.568	3.345	76.00	84.72	20.2755
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	8.920	0.160	0.521	21.42	13.20	8.1687
Total:			**0.748**	**3.948**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 17:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

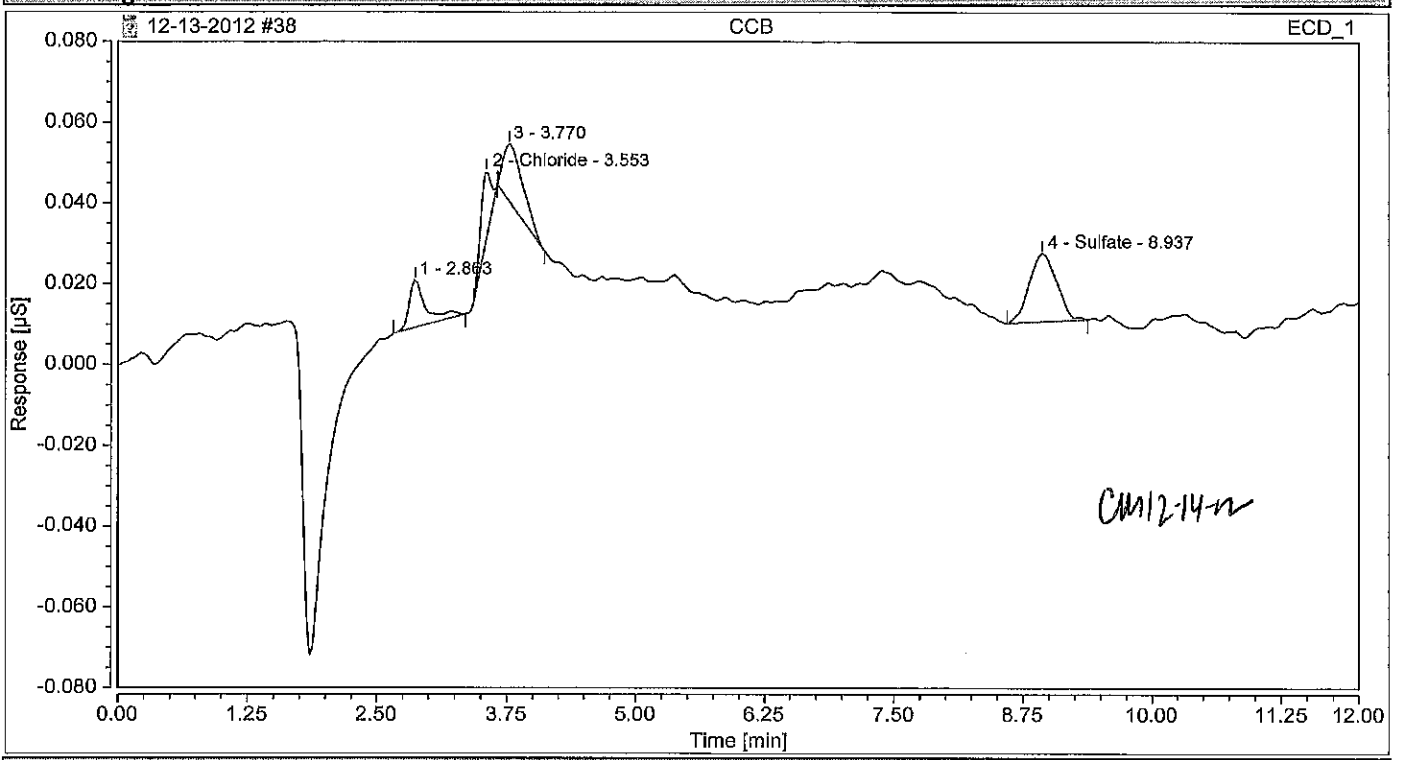
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.237	1.514	9.15	12.23	0.6449
2	Chloride	3.547	0.275	1.751	10.61	14.14	0.9803
3	Nitrite	4.137	0.610	3.435	23.55	27.73	0.9511
4	Bromide	5.227	0.109	0.550	4.19	4.44	0.9957
5	Nitrate	5.823	0.658	2.882	25.40	23.27	0.9874
6	Orthophosphate as P	7.453	0.193	0.608	7.47	4.91	0.9714
7	Sulfate	8.910	0.508	1.645	19.63	13.28	2.5912
Total:			**2.589**	**12.385**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 17:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

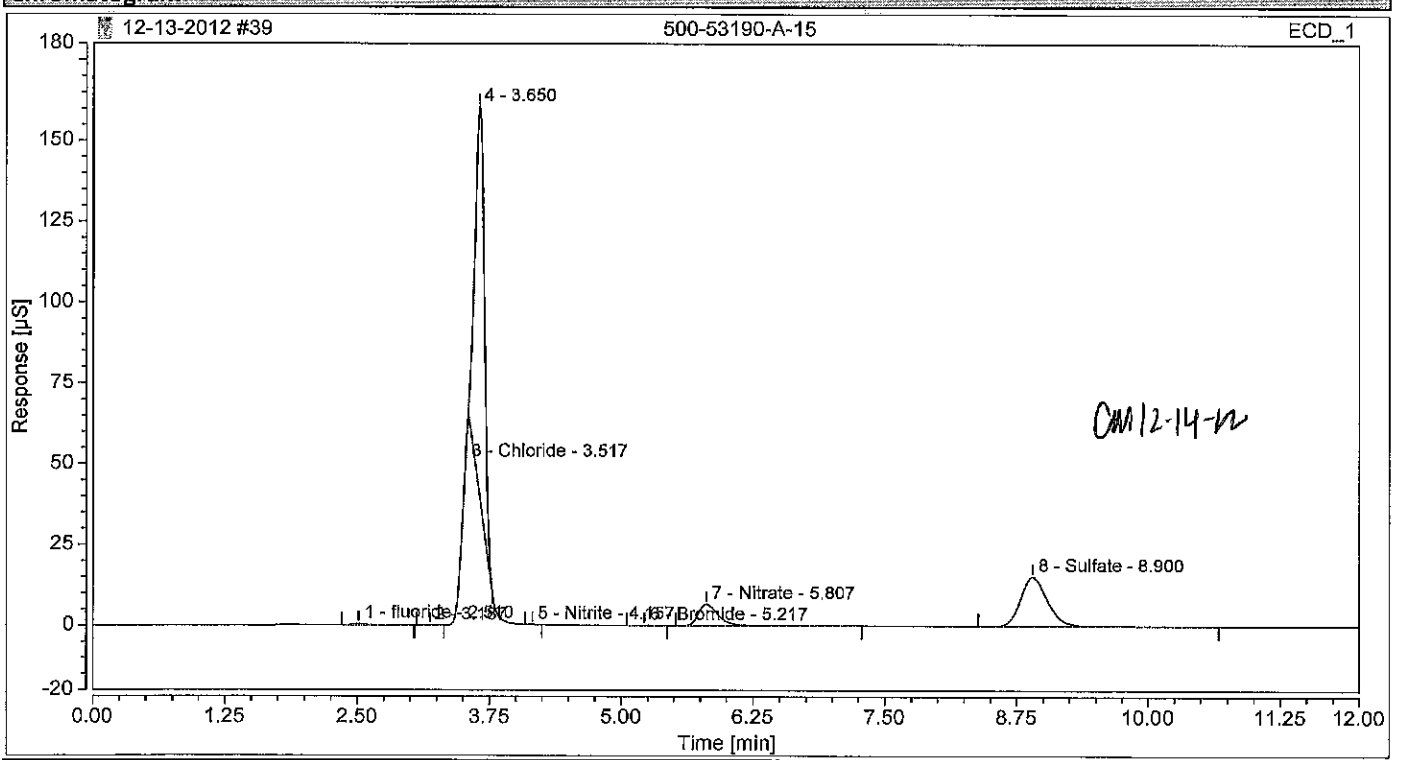
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.863	0.002	0.012	17.21	19.88	n.a.
2	Chloride	3.553	0.002	0.016	14.78	27.38	0.0066
3		3.770	0.003	0.014	26.60	24.12	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	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.
4	Sulfate	8.937	0.005	0.017	41.41	28.62	0.0266
Total:			**0.013**	**0.059**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-15**	*Run Time (min):*	**12.00**
Vial Number:	**GD5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 18:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

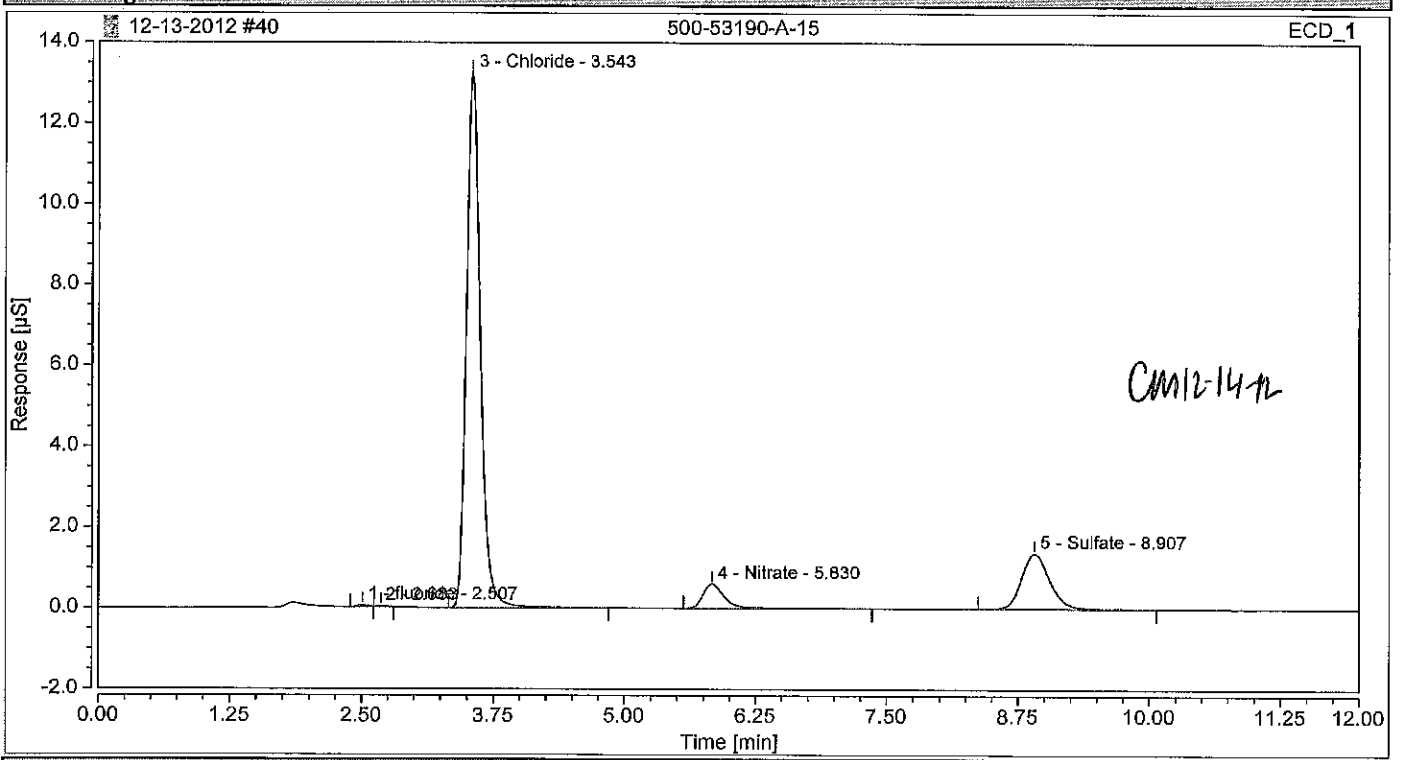
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.073	0.438	0.39	0.30	0.1983
2		3.187	0.002	0.012	0.01	0.01	n.a.
3	Chloride	3.517	0.050	1.354	0.27	0.94	0.1781
4		3.650	12.667	120.021	67.36	83.47	n.a.
5	Nitrite	4.157	0.001	0.016	0.01	0.01	0.0021
6	Bromide	5.217	0.002	0.012	0.01	0.01	0.0189
7	Nitrate	5.807	1.492	6.659	7.93	4.63	2.2403
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Sulfate	8.900	4.517	15.277	24.02	10.62	23.0349
Total:			**18.804**	**143.789**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-15**	*Run Time (min):*	**12.00**
Vial Number:	**GD6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 18:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

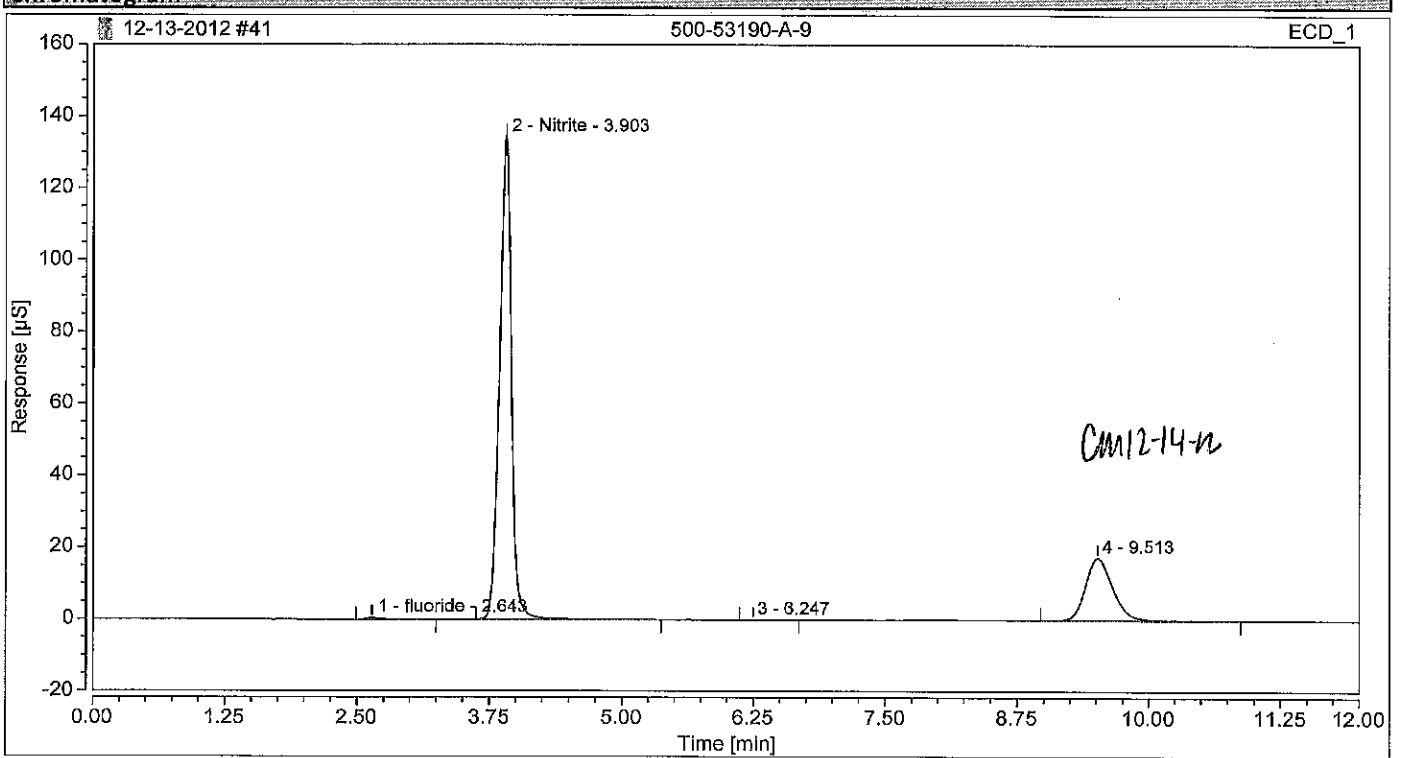
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.004	0.035	0.14	0.23	0.1016
2		2.683	0.001	0.014	0.06	0.09	n.a.
3	Chloride	3.543	2.032	13.238	77.82	86.73	72.5068
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.830	0.148	0.605	5.65	3.96	2.2165
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.907	0.427	1.370	16.34	8.98	21.7545
Total:			**2.612**	**15.262**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-9**	*Run Time (min):*	**12.00**
Vial Number:	**GD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 18:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

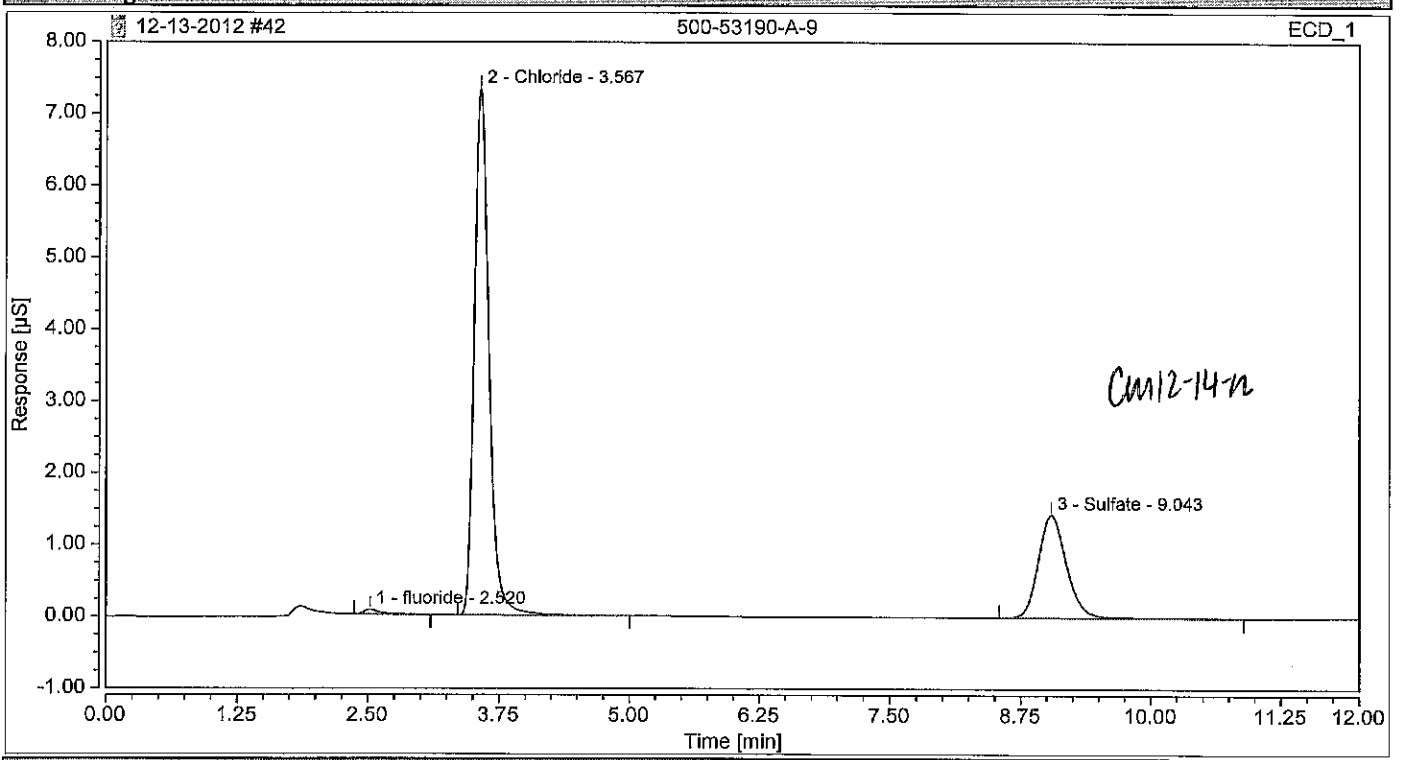
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.643	0.102	0.521	0.44	0.34	0.2777
n.a.	Chloride 0k	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrite m	3.903	17.787	134.363	76.88	88.21	27.7515
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		6.247	0.011	0.044	0.05	0.03	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate 0k	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		9.513	5.236	17.397	22.63	11.42	n.a.
Total:			**23.136**	**152.325**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-9**	*Run Time (min):*	**12.00**
Vial Number:	**GD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 18:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

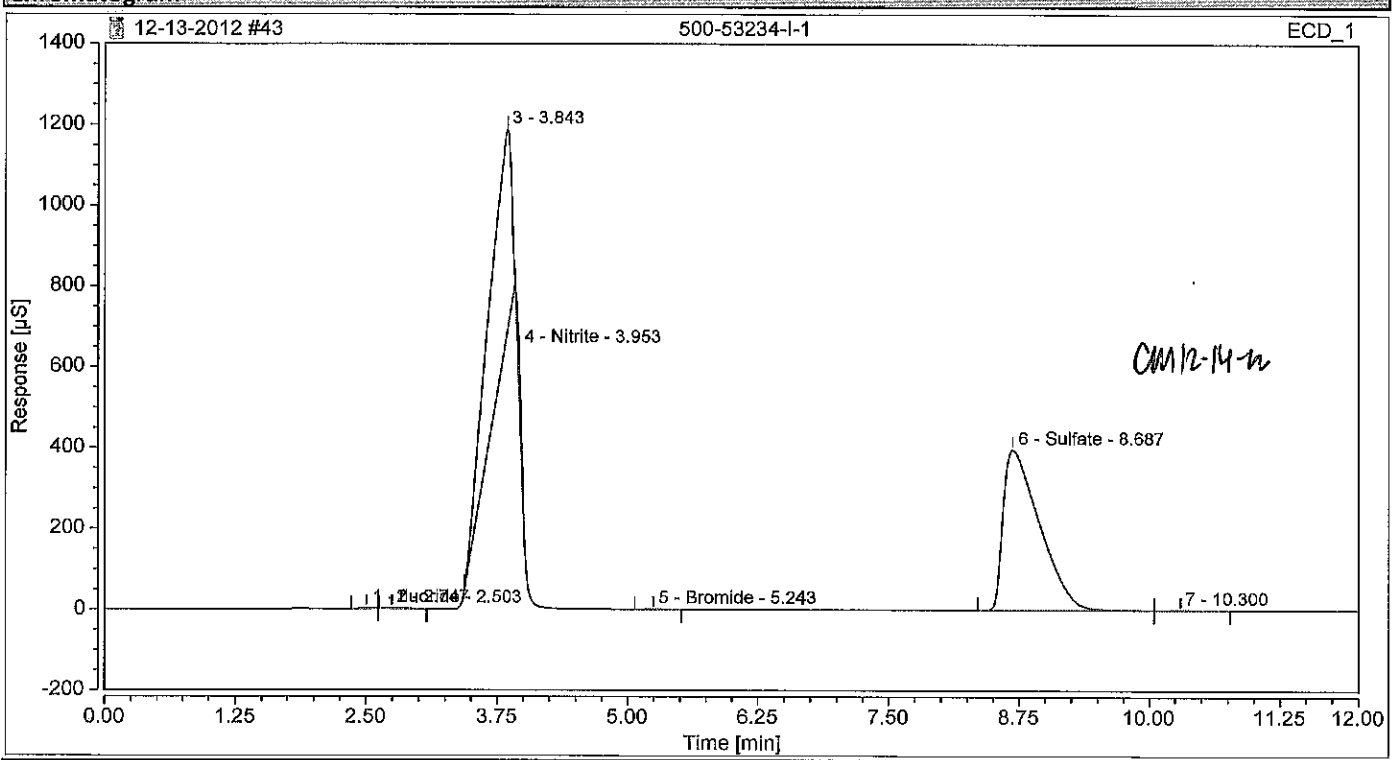
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.520	0.011	0.062	0.67	0.71	0.3022
2	Chloride	3.567	1.203	7.332	72.20	83.10	42.9267
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.043	0.452	1.429	27.14	16.20	23.0624
Total:			**1.666**	**8.823**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-1**	*Run Time (min):*	**12.00**
Vial Number:	**GE1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 18:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

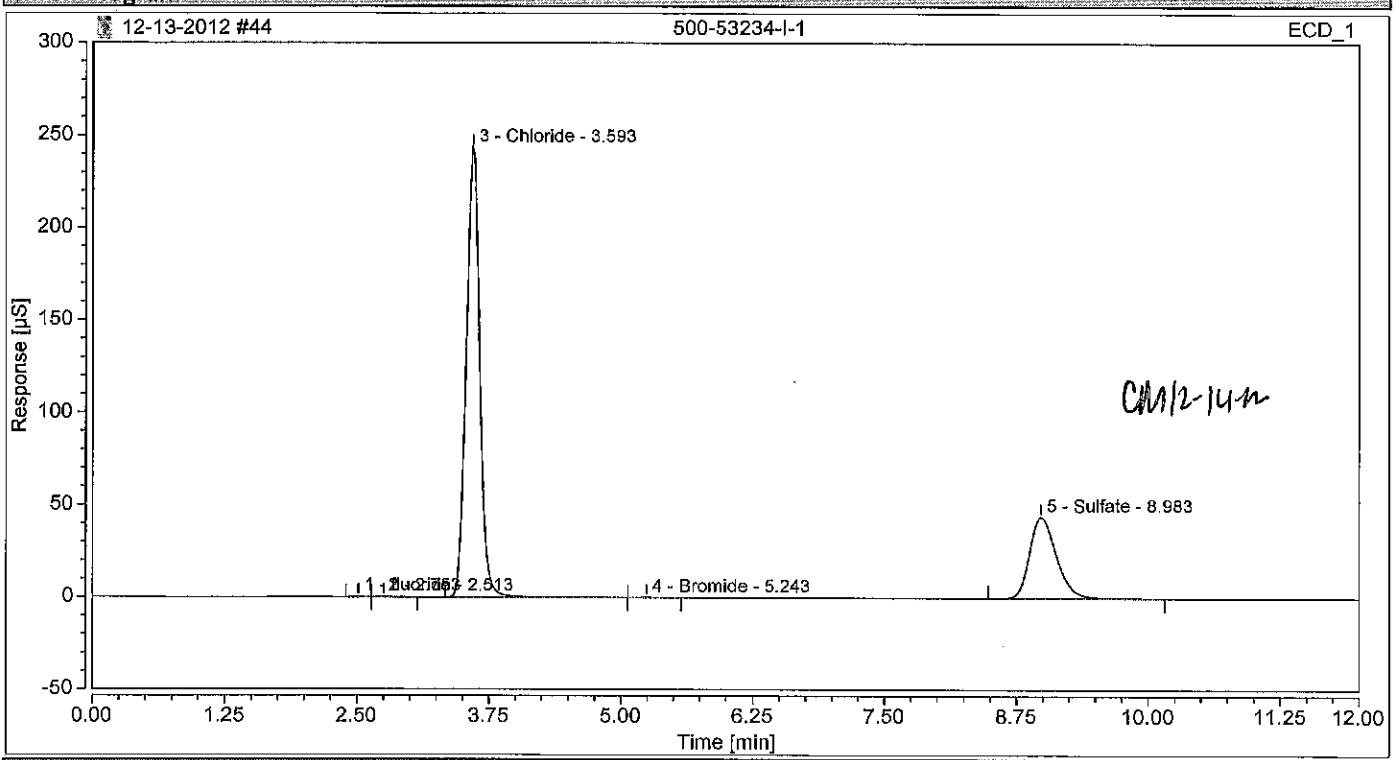
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.503	0.187	1.377	0.06	0.14	0.5099
2		2.747	0.415	2.023	0.14	0.20	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		3.843	133.220	494.225	44.61	49.78	n.a.
4	Nitrite	3.953	4.499	97.553	1.51	9.83	7.0194
5	Bromide	5.243	0.129	0.715	0.04	0.07	1.1791
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.
6	Sulfate	8.687	160.090	396.671	53.61	39.95	816.3665
7		10.300	0.097	0.300	0.03	0.03	n.a.
Total:			**298.637**	**992.865**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-1**	*Run Time (min):*	**12.00**
Vial Number:	**GE2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 19:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

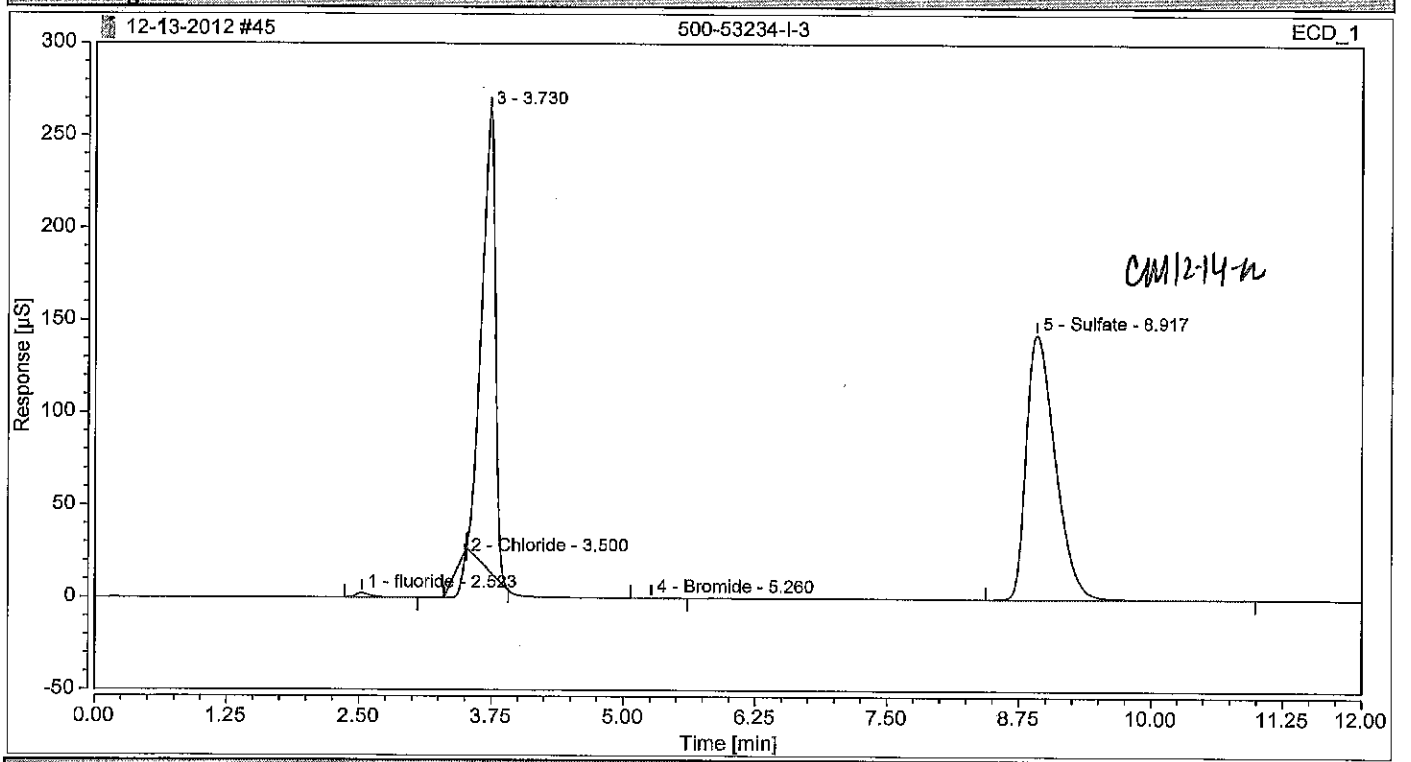
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.030	0.258	0.06	0.09	0.8215
2		2.753	0.050	0.306	0.10	0.11	n.a.
3	Chloride	3.593	36.233	243.542	73.32	84.51	1292.7405
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.243	0.012	0.066	0.02	0.02	1.1130
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	8.983	13.090	44.019	26.49	15.27	667.5275
Total:			**49.415**	**288.190**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-3**	*Run Time (min):*	**12.00**
Vial Number:	**GE3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 19:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

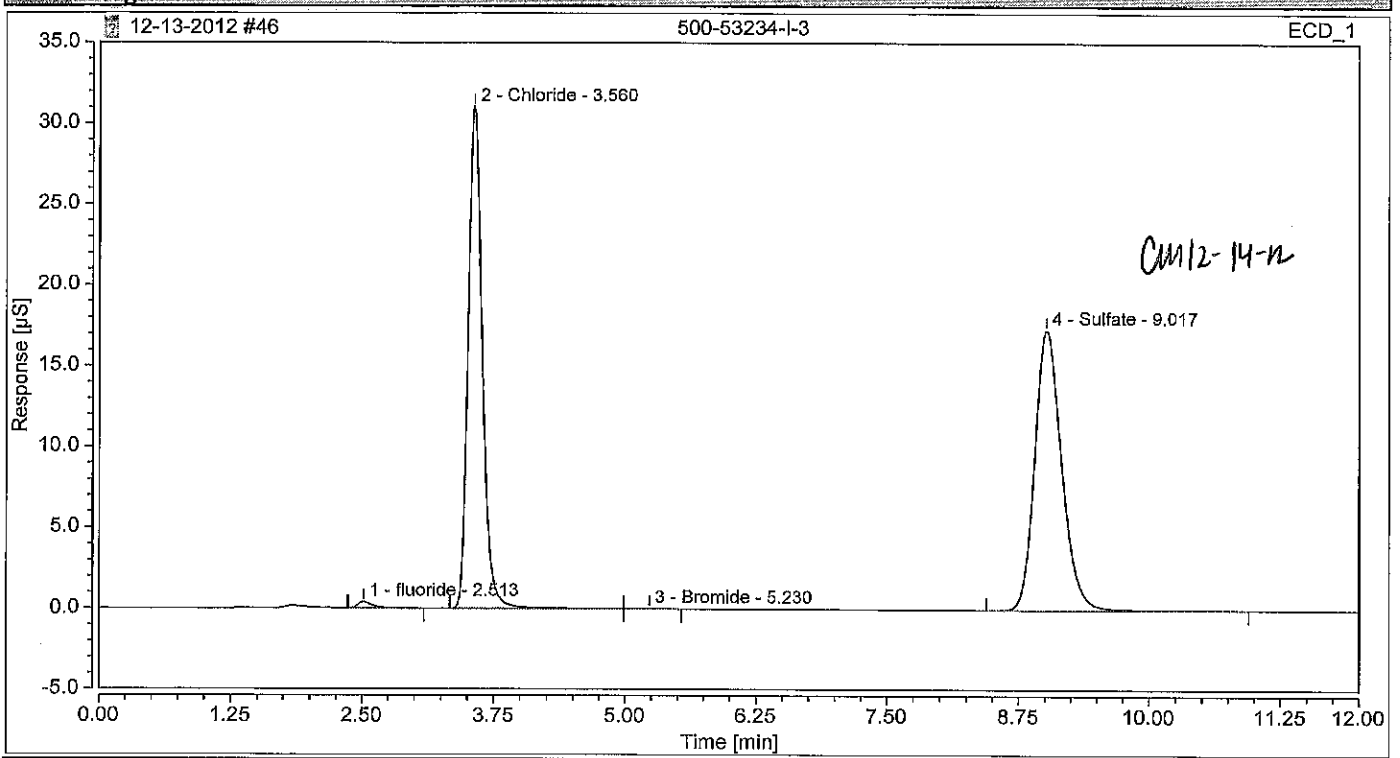
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride M	2.523	0.366	2.352	0.43	0.59	0.9963
2	Chloride OK	3.500	1.751	3.176	2.06	0.80	6.2483
3		3.730	37.193	249.601	43.82	62.64	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide M	5.260	0.031	0.166	0.04	0.04	0.2860
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P OK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate OK	8.917	45.527	143.150	53.64	35.93	232.1592
Total:			**84.868**	**398.446**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-3**	*Run Time (min):*	**12.00**
Vial Number:	**GE4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 19:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

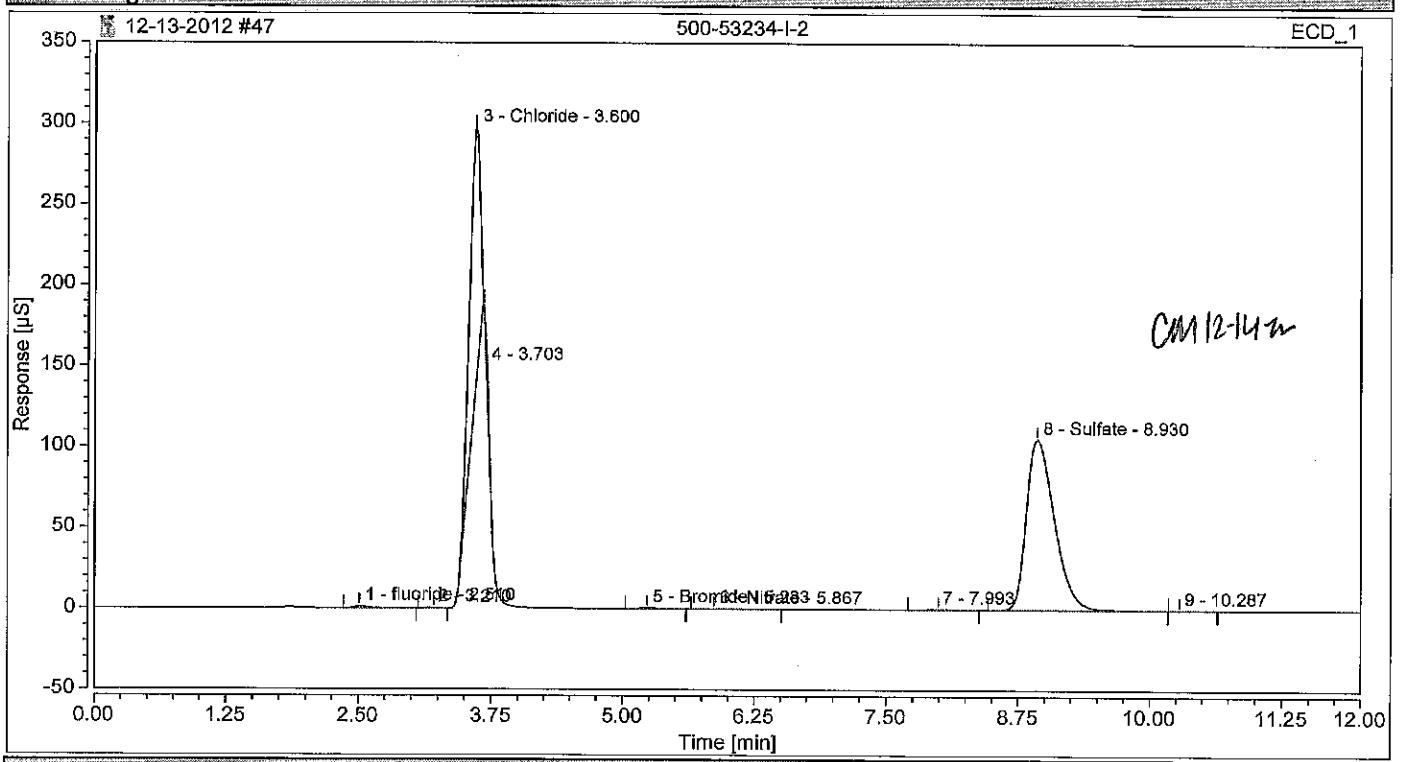
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.060	0.386	0.60	0.79	1.6331
2	Chloride DK	3.560	4.791	31.025	47.57	63.60	170.9220
n.a.	Nitrite KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide m	5.230	0.004	0.022	0.04	0.05	0.3890
n.a.	Nitrate KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as Pm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate DK	9.017	5.215	17.346	51.79	35.56	265.9295
Total:			**10.070**	**48.779**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-2**	*Run Time (min):*	**12.00**
Vial Number:	**GE5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 19:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

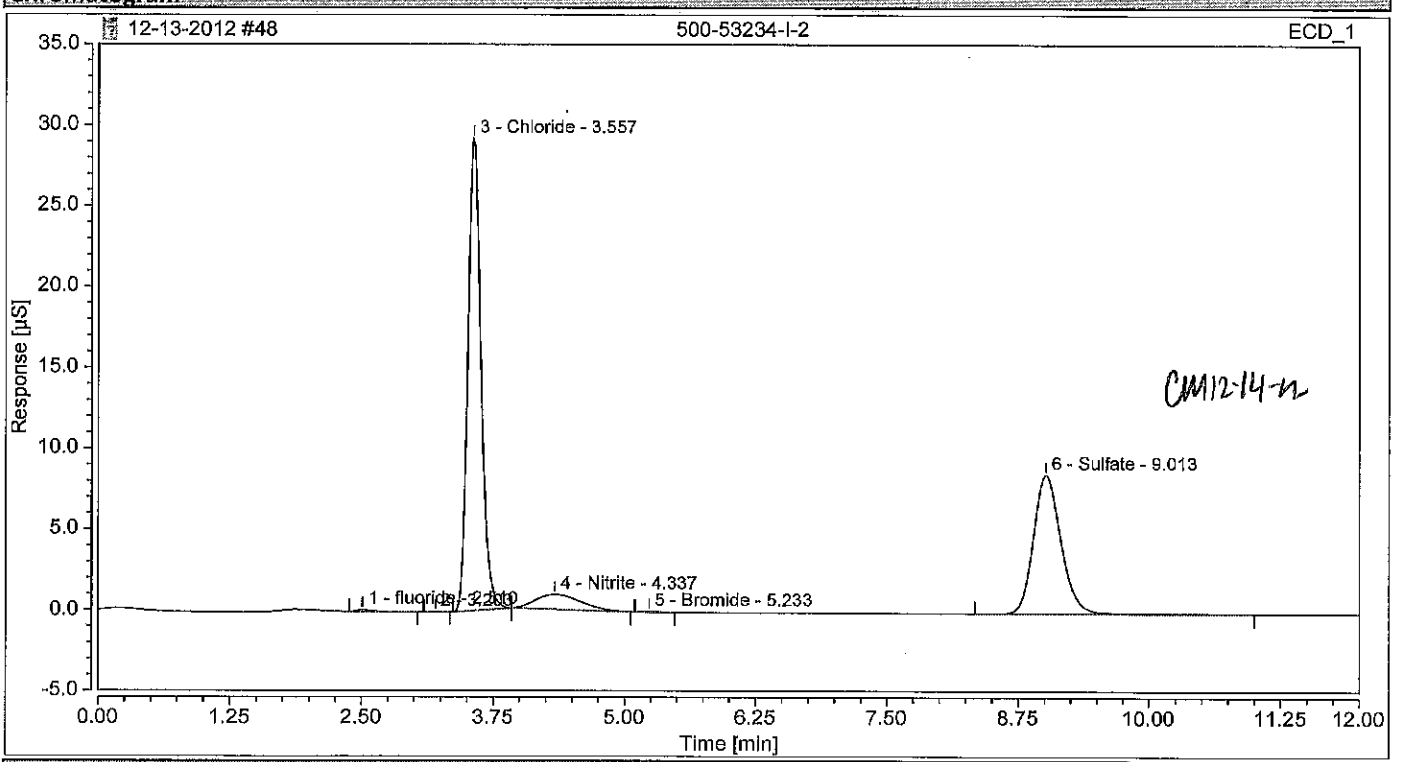
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.206	1.271	0.40	0.45	0.5624
2		3.210	0.025	0.184	0.05	0.06	n.a.
3	Chloride ok	3.600	18.092	159.445	34.87	56.28	64.5505
4		3.703	0.704	16.127	1.36	5.69	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Bromide m	5.233	0.092	0.471	0.18	0.17	0.8440
6	Nitrate	5.867	0.019	0.077	0.04	0.03	0.0289
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7		7.993	0.068	0.260	0.13	0.09	n.a.
8	Sulfate ok	8.930	32.677	105.462	62.97	37.22	166.6336
9		10.287	0.005	0.016	0.01	0.01	n.a.
Total:			**51.890**	**283.313**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-2**	*Run Time (min):*	**12.00**
Vial Number:	**GE6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 20:02**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

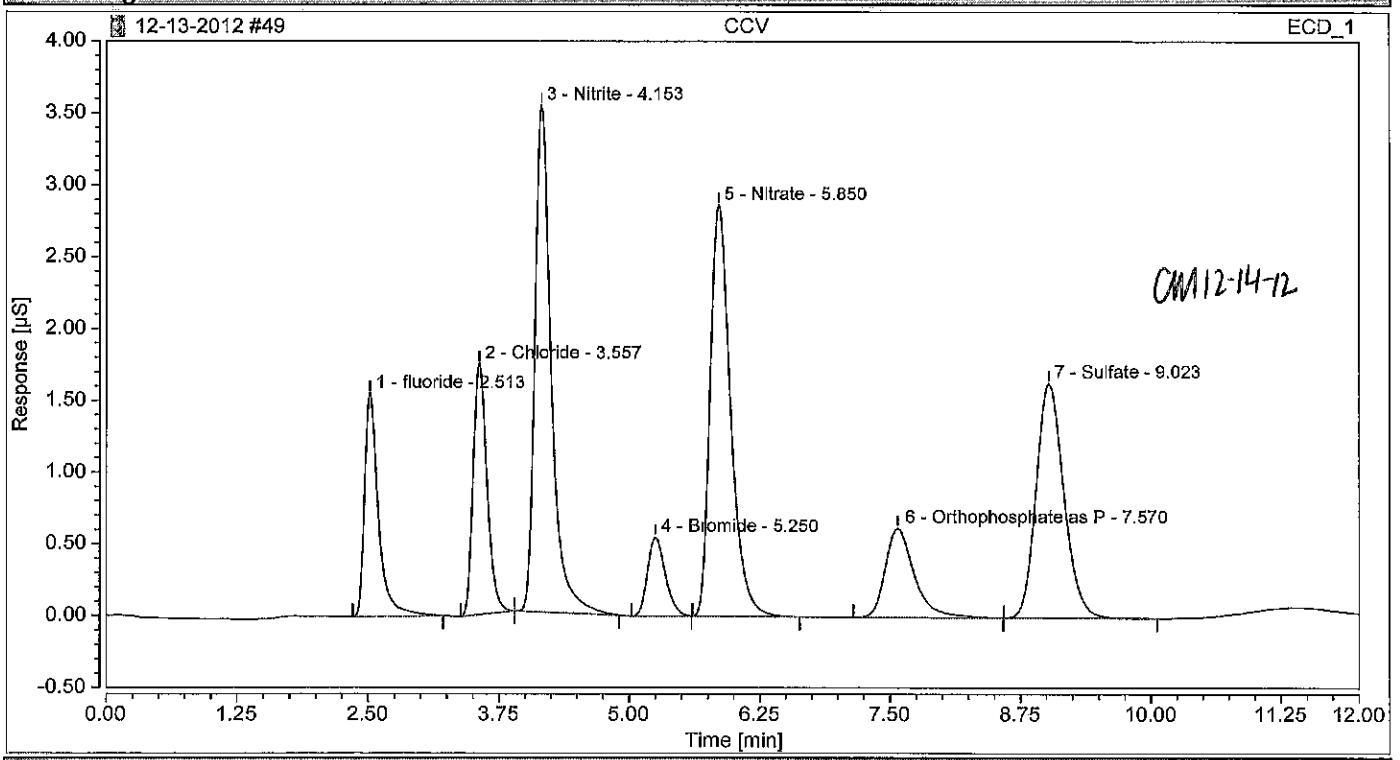
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.019	0.129	0.26	0.33	0.5247
2		3.203	0.002	0.019	0.03	0.05	n.a.
3	Chloride OK	3.557	4.238	29.223	57.62	75.09	151.2043
4	Nitrite KK	4.337	0.460	0.924	6.26	2.37	7.1814
5	Bromide m	5.233	0.006	0.036	0.08	0.09	0.5589
n.a.	Nitrate KK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate OK	9.013	2.629	8.584	35.74	22.06	134.0675
Total:			**7.355**	**38.915**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 20:16**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

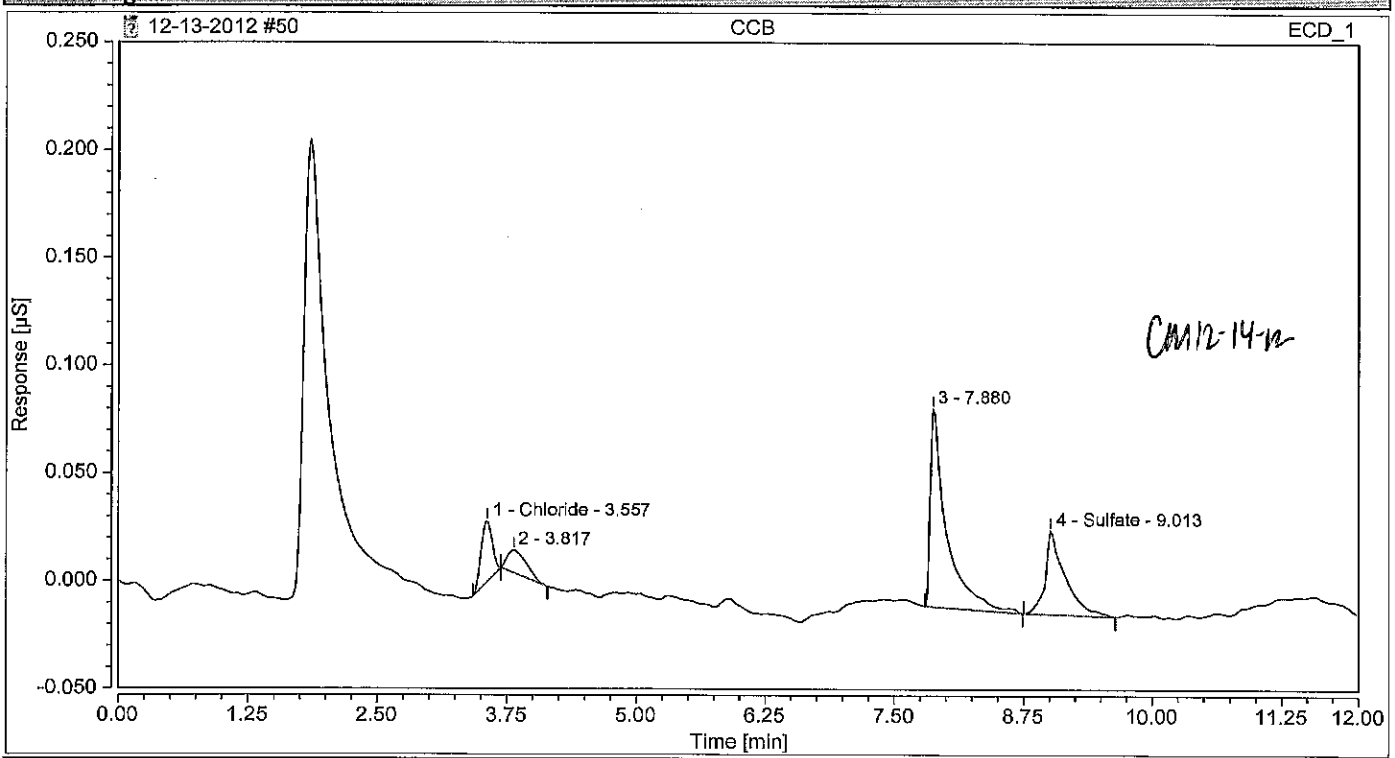
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.240	1.550	9.14	12.41	0.6539
2	Chloride	3.557	0.269	1.745	10.23	13.98	0.9589
3	Nitrite	4.153	0.652	3.527	24.82	28.25	1.0175
4	Bromide	5.250	0.108	0.547	4.12	4.38	0.9926
5	Nitrate	5.850	0.653	2.860	24.84	22.91	0.9802
6	Orthophosphate as P	7.570	0.201	0.622	7.63	4.98	1.0069
7	Sulfate	9.023	0.505	1.634	19.22	13.09	2.5749
Total:			**2.627**	**12.484**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 20:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

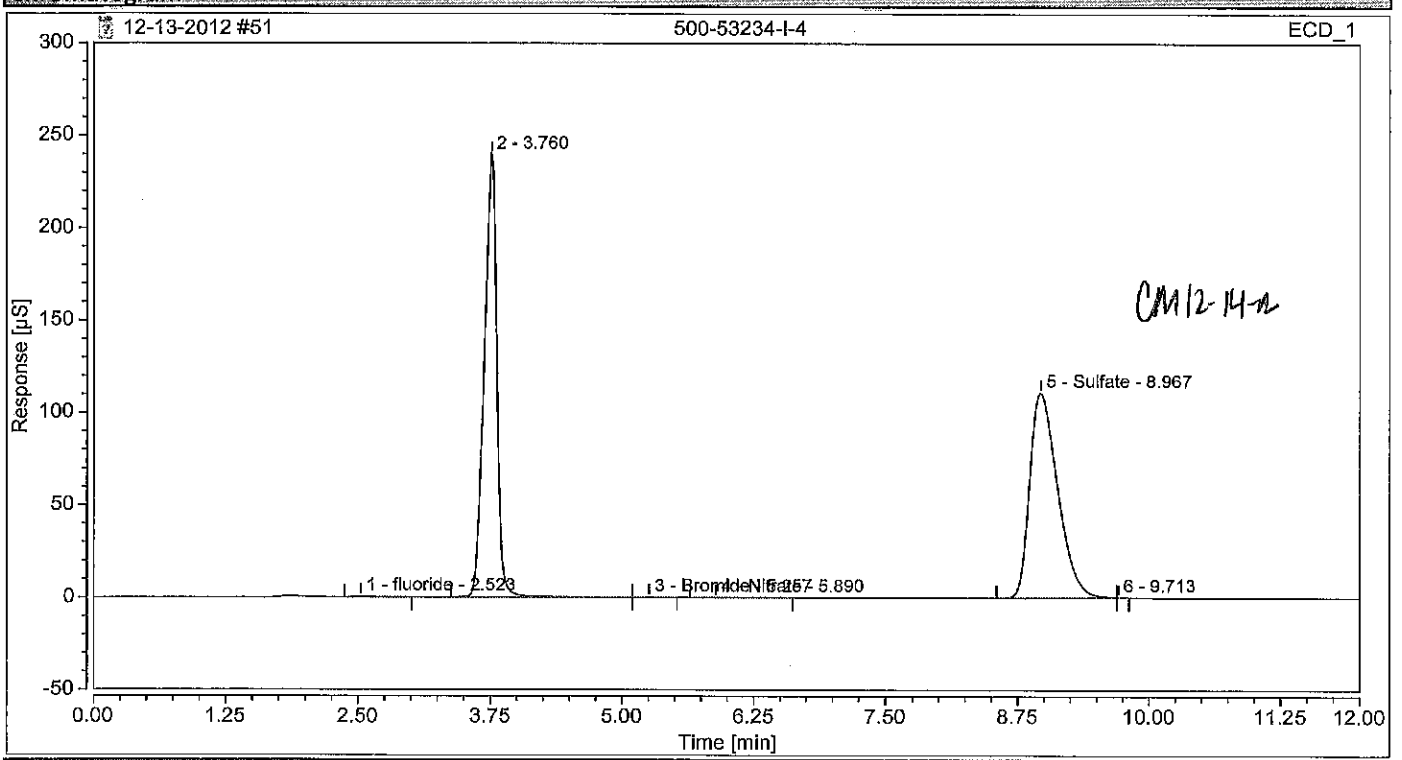
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.557	0.003	0.028	11.17	16.61	0.0124
2		3.817	0.002	0.010	7.36	6.20	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	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.
3		7.880	0.017	0.092	53.45	54.31	n.a.
4	Sulfate	9.013	0.009	0.039	28.01	22.87	0.0446
Total:			**0.031**	**0.169**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-4**	*Run Time (min):*	**12.00**
Vial Number:	**GE7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 20:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

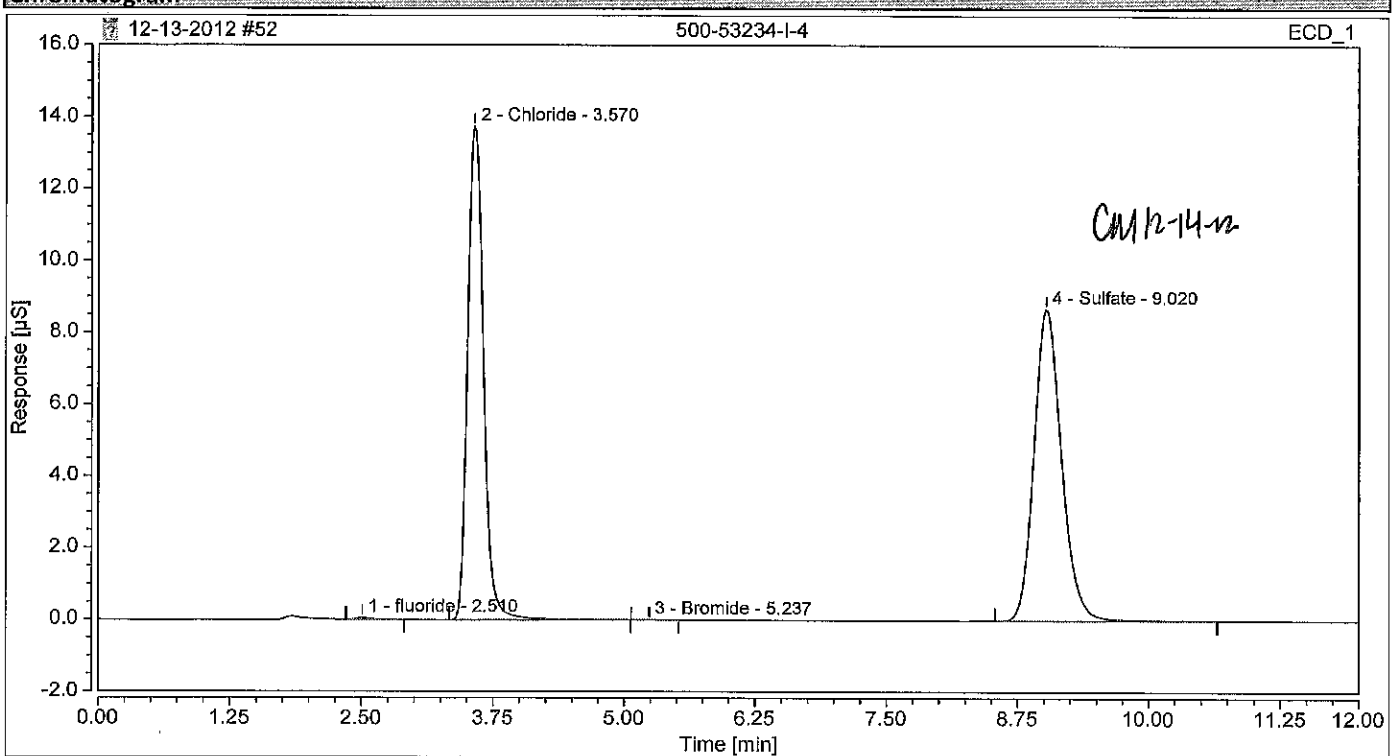
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.523	0.072	0.395	0.11	0.11	0.1967
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.760	32.821	239.631	48.89	68.25	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.257	0.013	0.074	0.02	0.02	0.1211
4	Nitrate	5.890	0.022	0.081	0.03	0.02	0.0329
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.967	34.199	110.877	50.94	31.58	174.3952
6		9.713	0.002	0.027	0.00	0.01	n.a.
Total:			**67.130**	**351.085**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53234-I-4**	*Run Time (min):*	**12.00**
Vial Number:	**GE8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**13/Dec/12 20:56**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

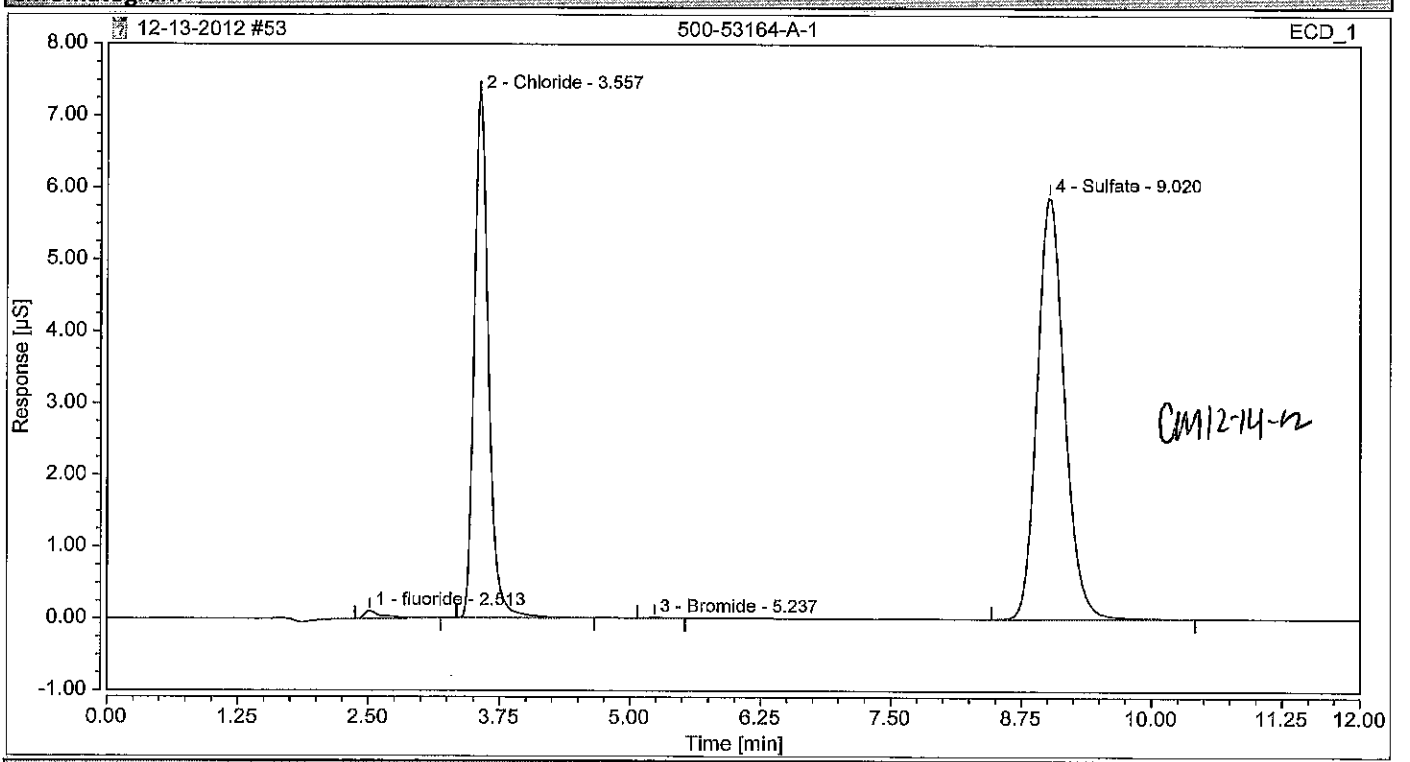
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.008	0.054	0.17	0.24	0.2296
2	Chloride	3.570	2.395	13.744	47.43	61.12	85.4462
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.237	0.001	0.008	0.03	0.04	0.1333
n.a.	Nitrate	n.a.	n.a.	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	9.020	2.644	8.680	52.37	38.60	134.8356
Total:			**5.049**	**22.485**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**13/Dec/12 21:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

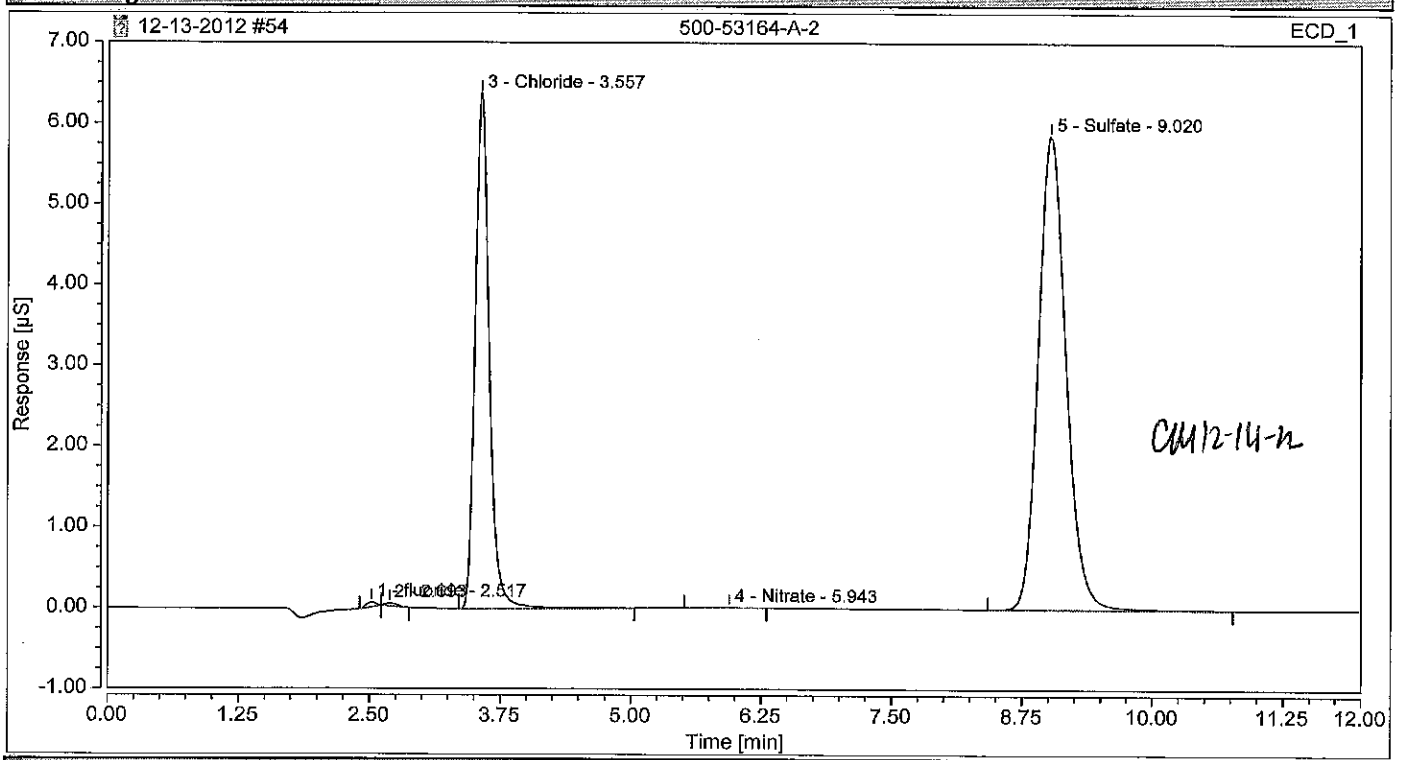
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoridem	2.513	0.023	0.110	0.76	0.82	1.2337
2	Chloride	3.557	1.159	7.294	38.90	54.89	82.7369
n.a.	Nitrite KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromidem	5.237	0.001	0.007	0.05	0.06	0.2529
n.a.	Nitrate KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as Pm	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.020	1.797	5.876	60.29	44.22	183.2868
Total:			**2.981**	**13.287**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**13/Dec/12 21:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

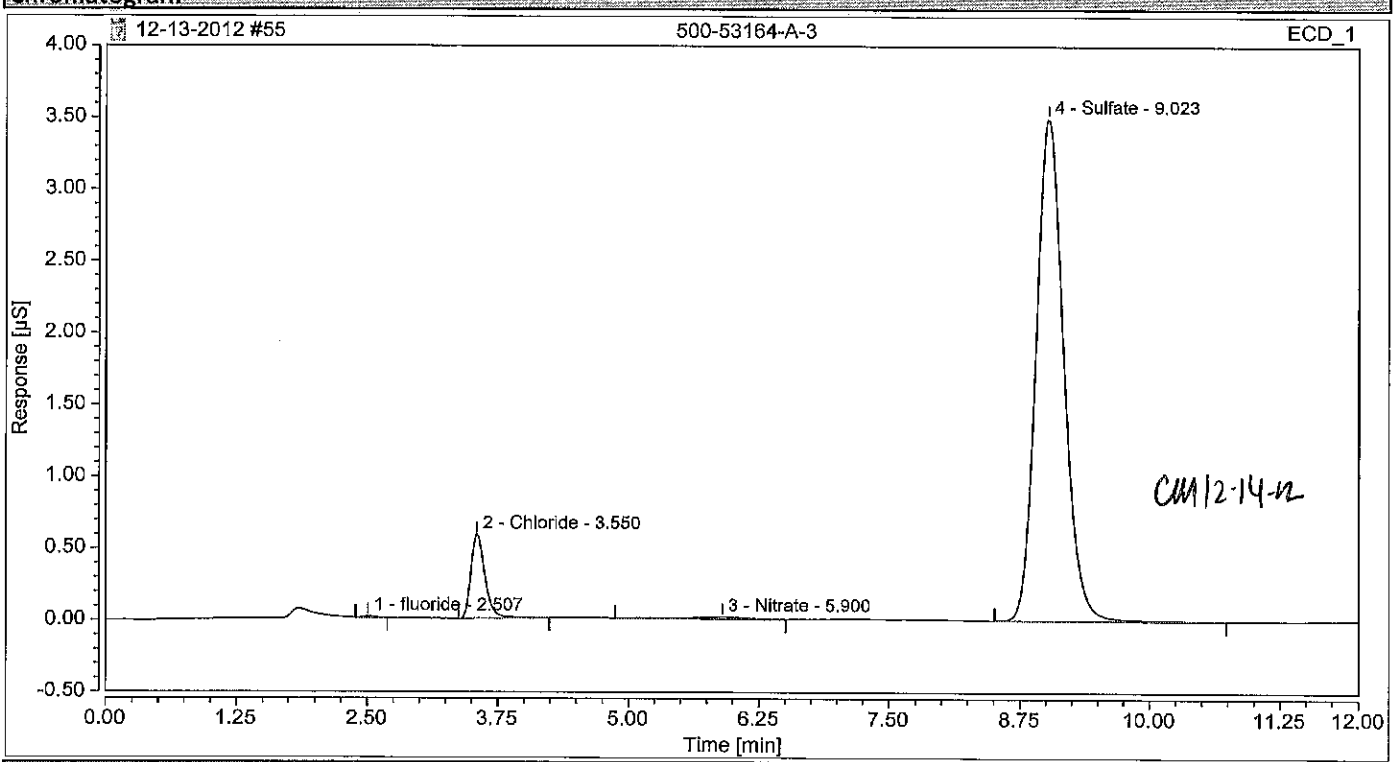
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.006	0.058	0.21	0.47	0.4088
2		2.693	0.005	0.036	0.16	0.29	n.a.
3	Chloride	3.557	1.000	6.376	35.57	51.68	89.1538
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.943	0.002	0.005	0.06	0.04	0.0595
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.020	1.798	5.863	64.00	47.51	229.2580
Total:			**2.810**	**12.339**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**13/Dec/12 21:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

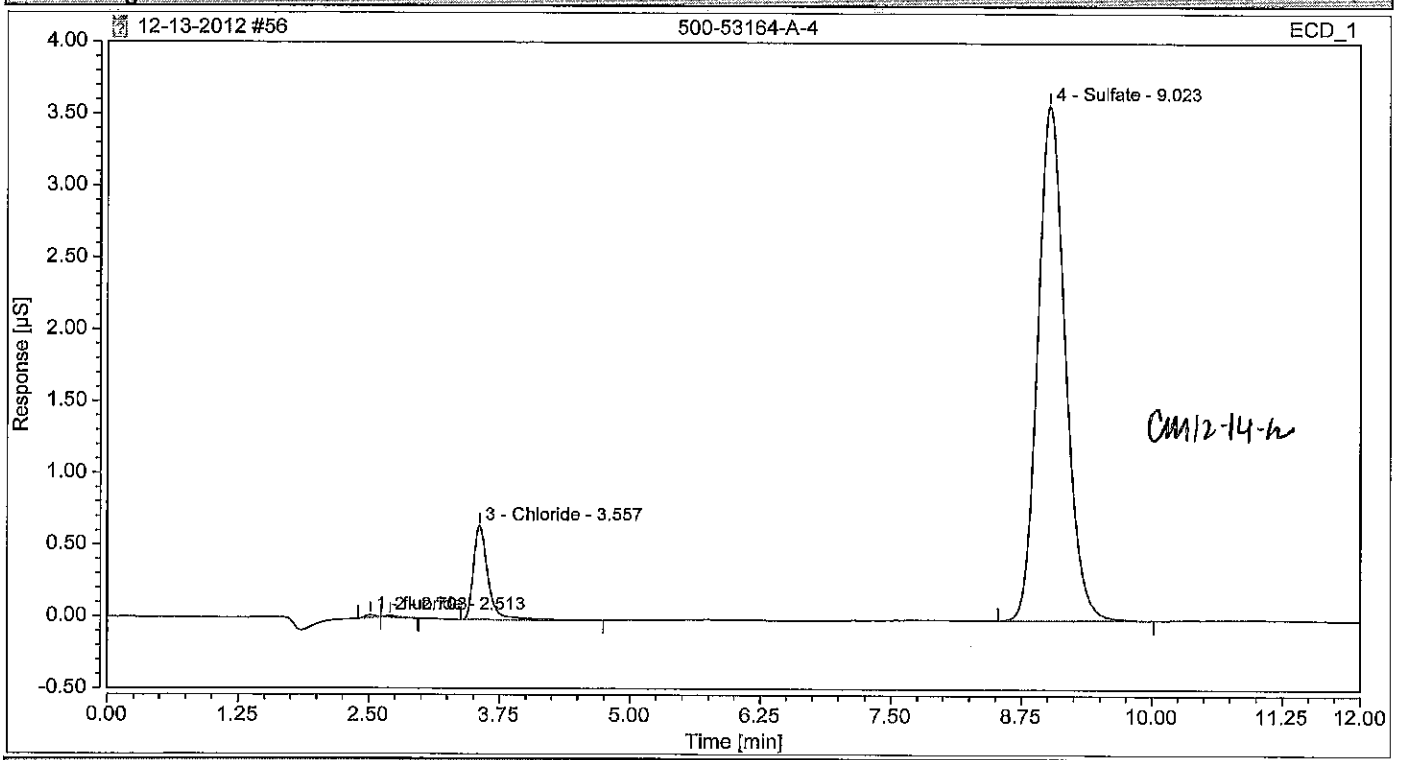
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.507	0.001	0.011	0.12	0.26	0.3846
2	Chloride m	3.550	0.091	0.584	7.72	14.23	32.5491
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.900	0.008	0.014	0.69	0.34	1.2208
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.023	1.080	3.496	91.47	85.17	550.8460
Total:			**1.181**	**4.105**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**GA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**13/Dec/12 21:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

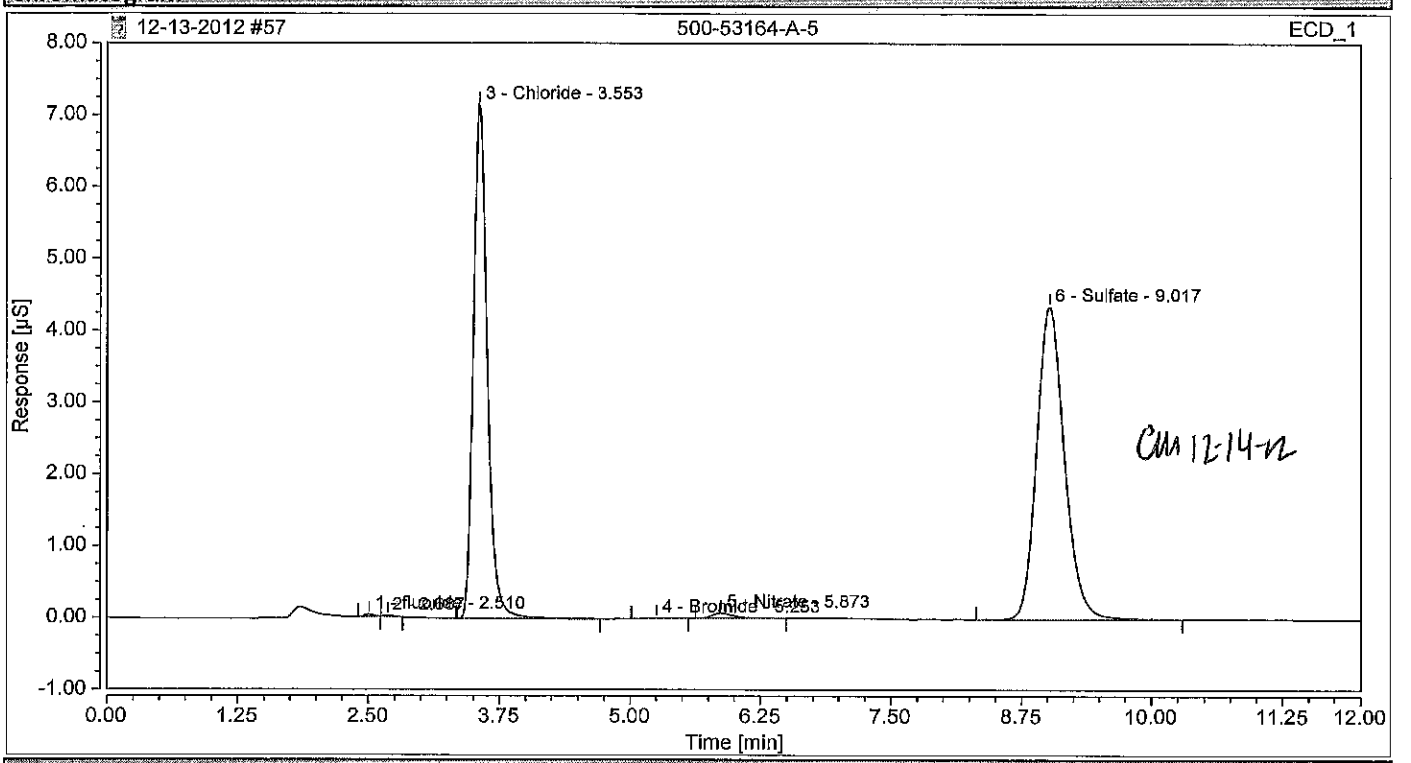
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.002	0.019	0.16	0.44	0.2681
2		2.703	0.002	0.012	0.13	0.28	n.a.
3	Chloride RC	3.557	0.108	0.654	8.95	15.32	19.3485
n.a.	Nitrite RC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate RC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.023	1.100	3.584	90.76	83.97	280.4443
Total:			**1.212**	**4.269**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**13/Dec/12 22:02**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

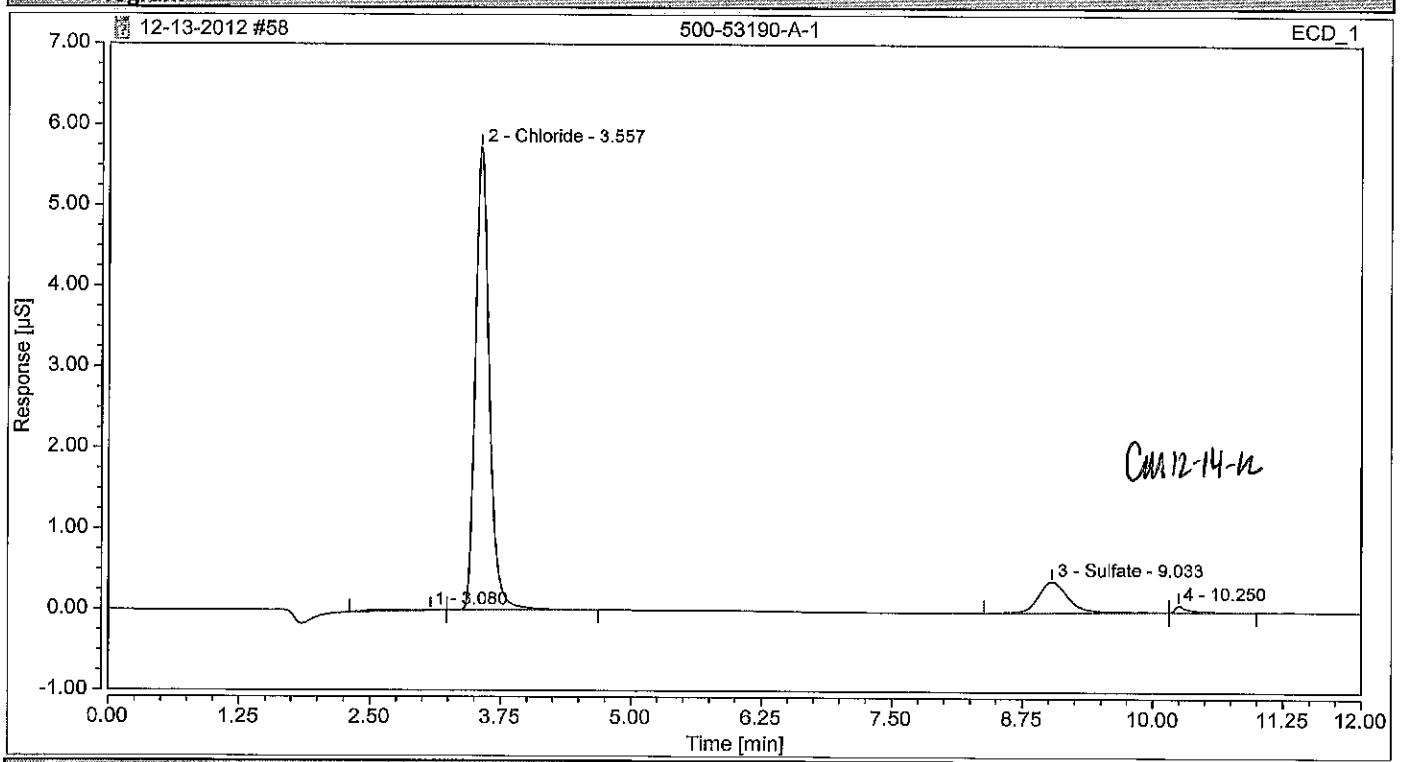
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.003	0.031	0.13	0.26	0.8868
2		2.687	0.001	0.014	0.06	0.12	n.a.
3	Chloride	3.553	1.100	7.151	44.43	61.48	392.3434
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.253	0.002	0.008	0.07	0.07	1.4894
5	Nitrate	5.873	0.017	0.073	0.70	0.62	2.6069
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	9.017	1.352	4.355	54.62	37.45	689.4012
Total:			**2.475**	**11.631**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**GA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**13/Dec/12 22:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

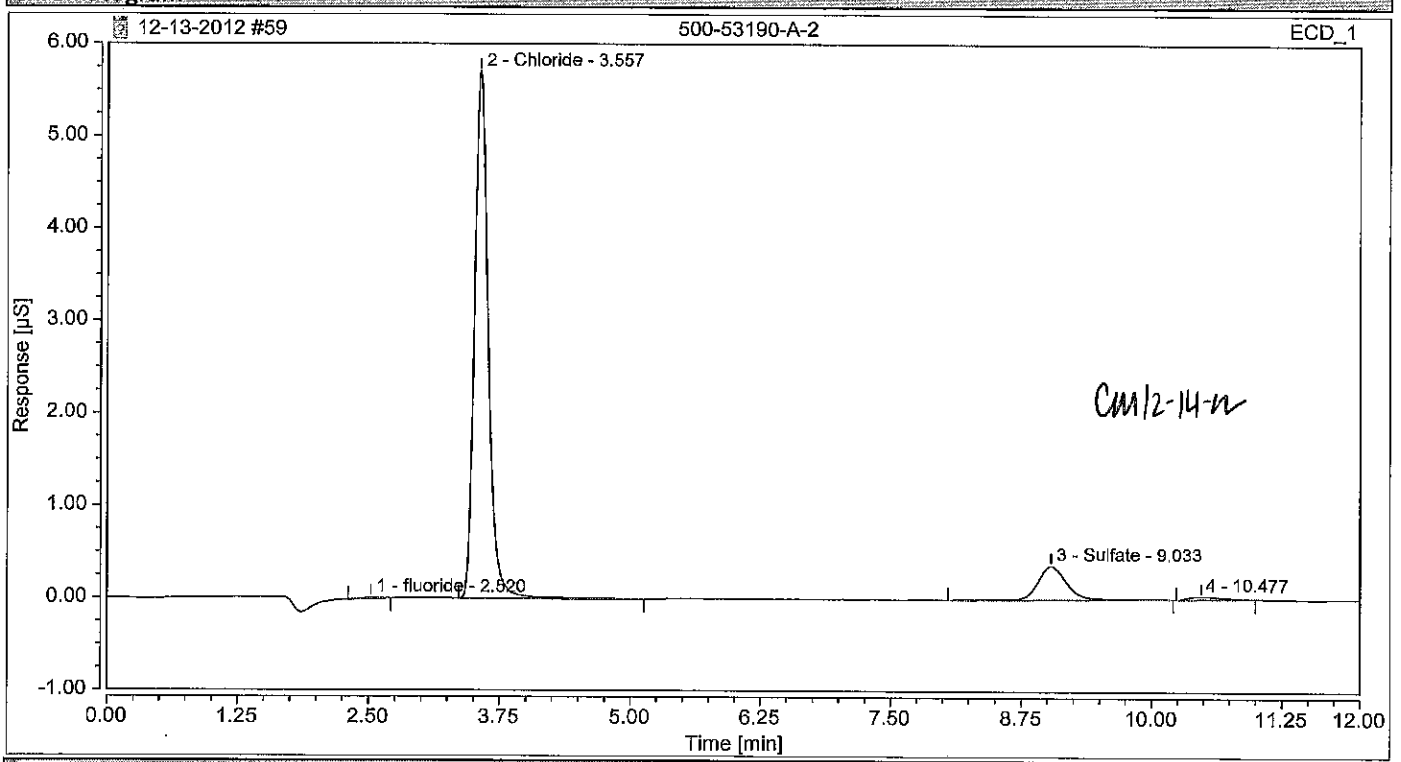
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.080	0.007	0.004	0.70	0.07	n.a.
2	Chloride	3.557	0.879	5.724	85.73	92.43	156.7937
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	9.033	0.126	0.382	12.32	6.17	32.2164
4		10.250	0.013	0.083	1.24	1.33	n.a.
Total:			**1.025**	**6.193**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**GA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**13/Dec/12 22:29**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

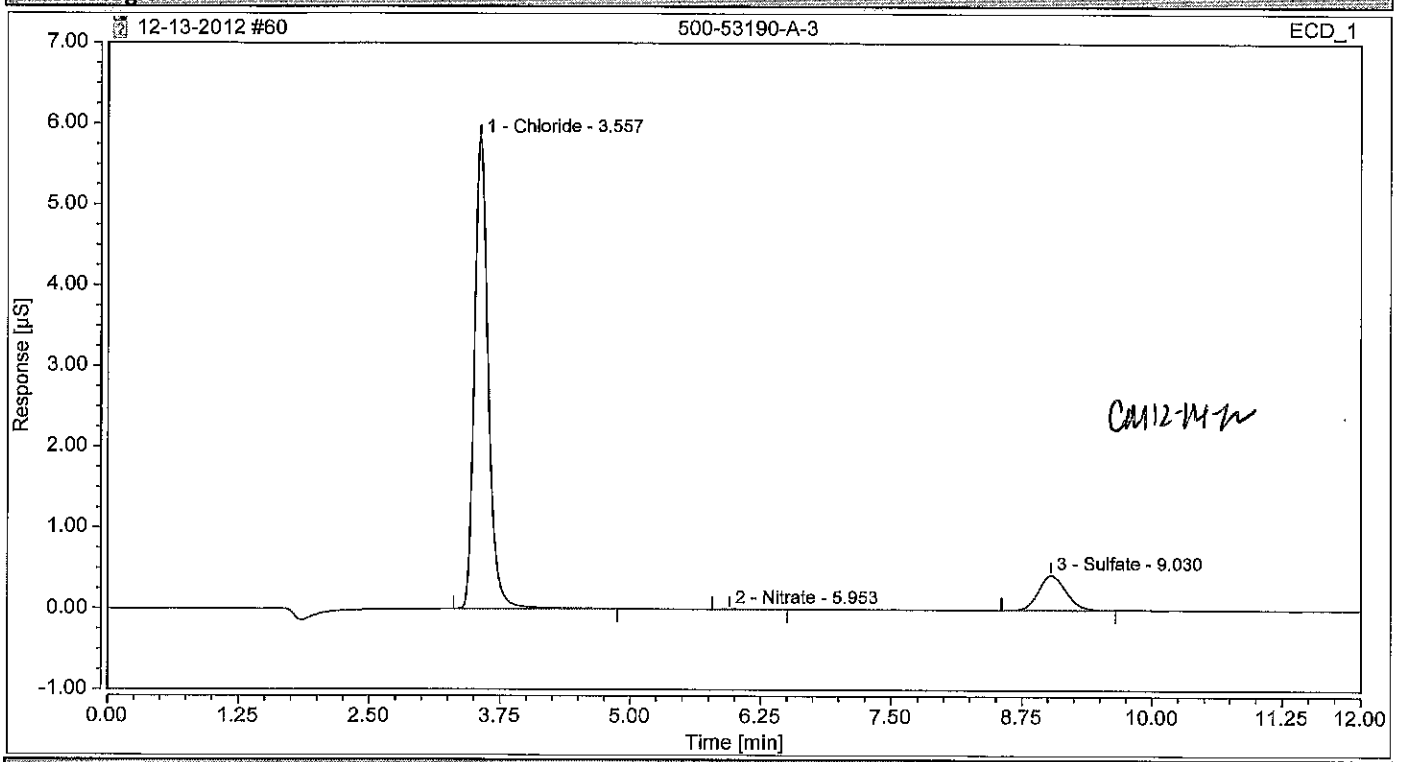
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.520	0.002	0.012	0.17	0.19	0.2350
2	Chloride	3.557	0.878	5.702	86.70	93.34	156.6947
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	9.033	0.121	0.363	11.94	5.95	30.8316
4		10.477	0.012	0.032	1.20	0.52	n.a.
Total:			**1.013**	**6.110**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**GA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**13/Dec/12 22:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

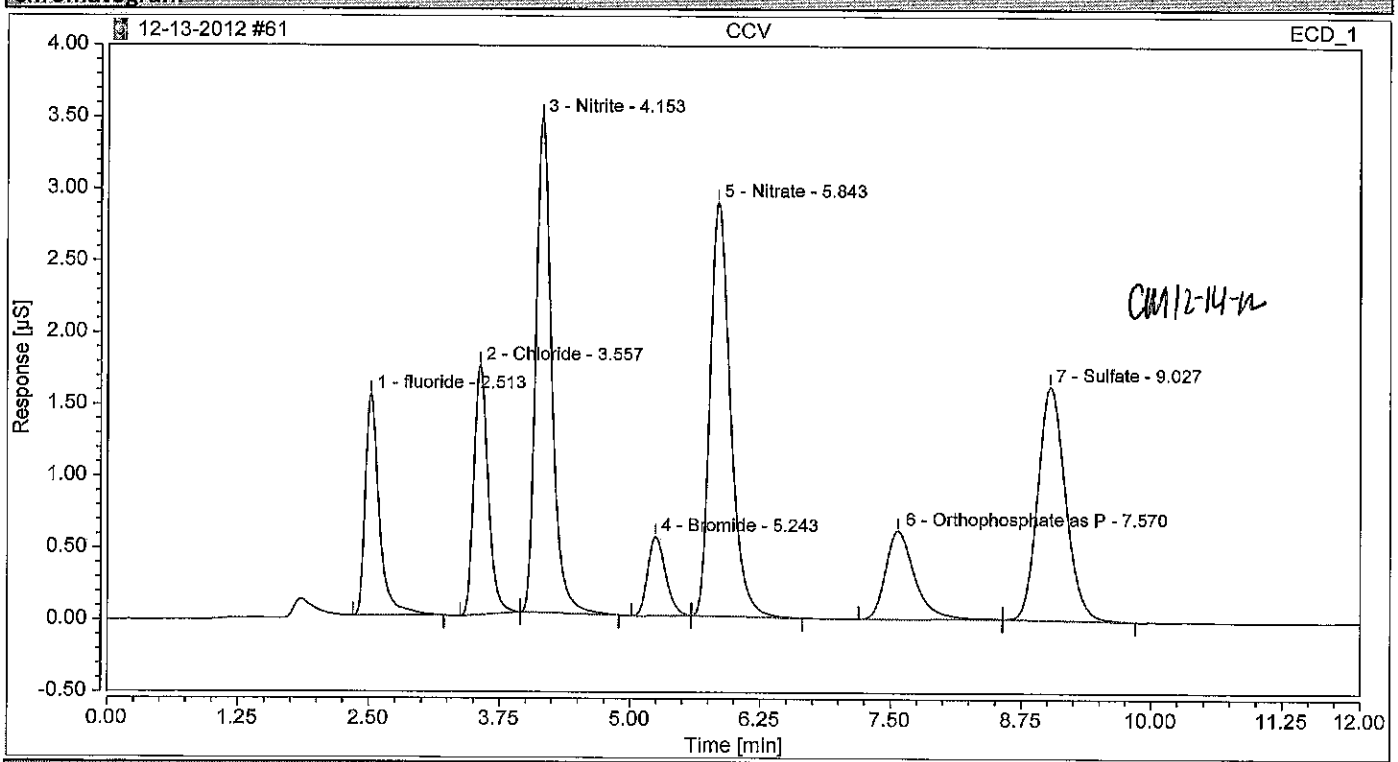
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.557	0.891	5.828	86.91	93.04	317.8818
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate m	5.953	0.002	0.005	0.15	0.08	0.2367
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	9.030	0.133	0.431	12.94	6.88	67.6258
Total:			**1.025**	**6.264**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 22:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

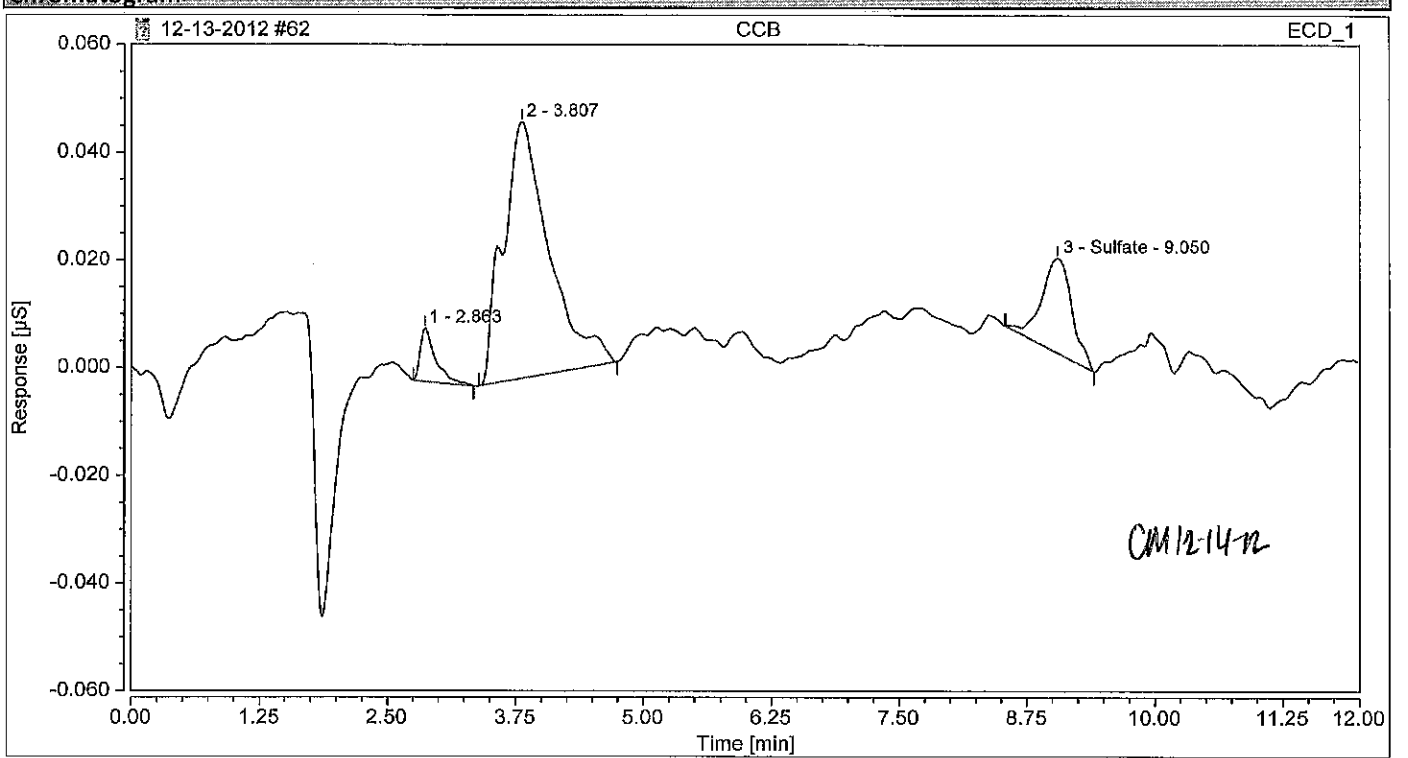
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.240	1.542	9.27	12.44	0.6548
2	Chloride	3.557	0.275	1.735	10.59	14.00	0.9803
3	Nitrite	4.153	0.611	3.446	23.54	27.81	0.9531
4	Bromide	5.243	0.109	0.550	4.20	4.44	0.9986
5	Nitrate	5.843	0.657	2.878	25.32	23.23	0.9866
6	Orthophosphate as P	7.570	0.199	0.614	7.67	4.96	0.9996
7	Sulfate	9.027	0.504	1.626	19.42	13.12	2.5704
Total:			**2.595**	**12.390**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**13/Dec/12 23:09**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

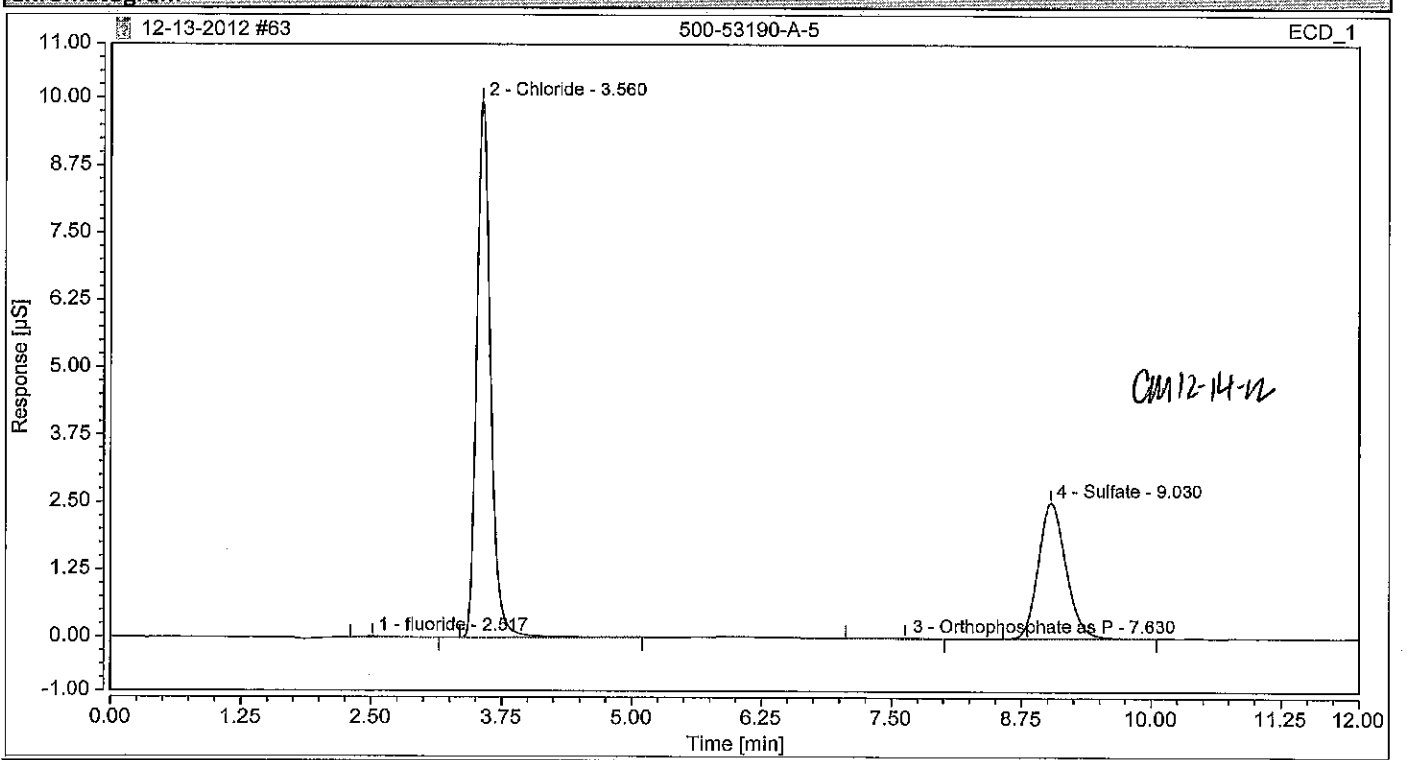
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.863	0.002	0.010	5.32	13.16	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.807	0.025	0.048	76.02	63.43	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
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.
3	Sulfate	9.050	0.006	0.018	18.66	23.42	0.0309
Total:			**0.032**	**0.075**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**GB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**13/Dec/12 23:22**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

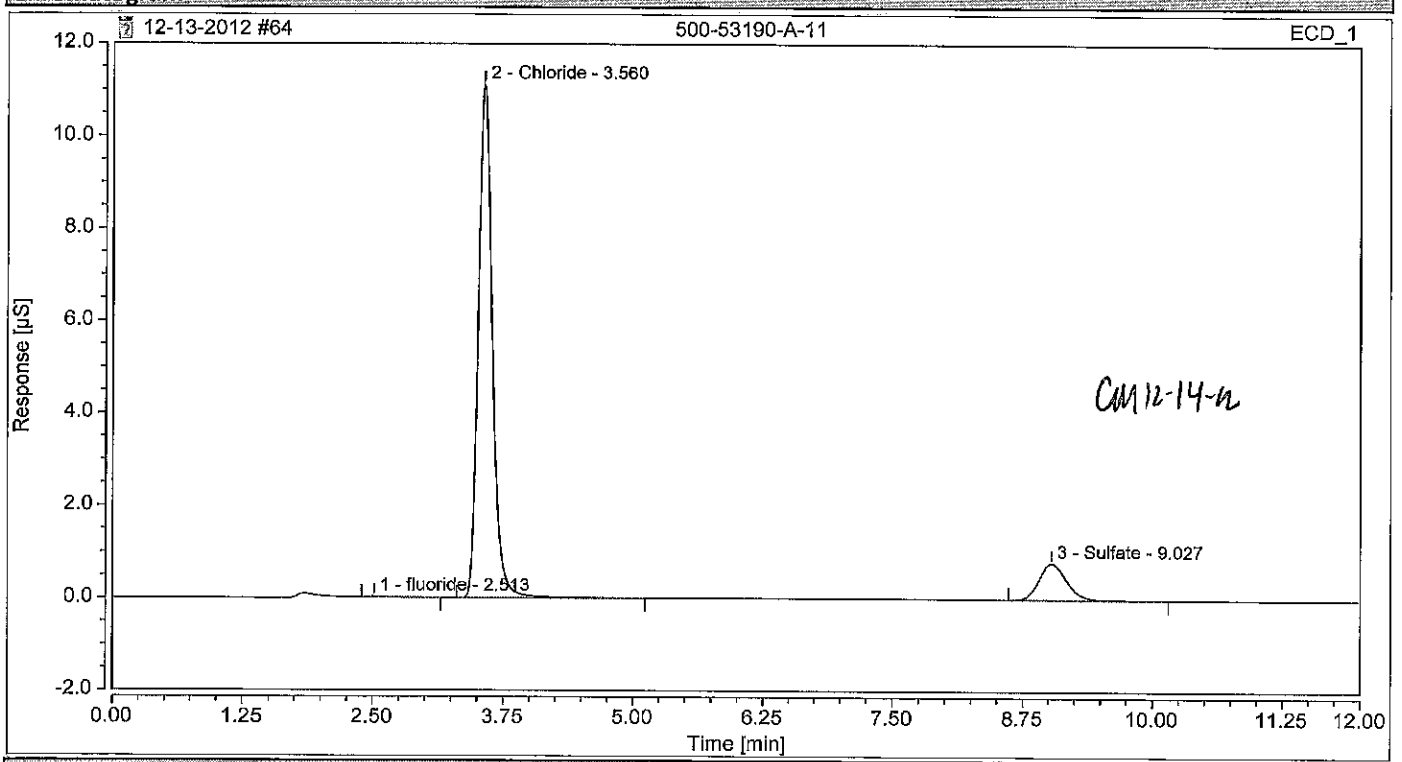
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.005	0.022	0.21	0.18	0.3316
2	Chloride	3.560	1.533	9.959	66.02	79.54	136.7531
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Orthophosphate as P m	7.630	0.005	0.014	0.22	0.11	0.6345
4	Sulfate	9.030	0.779	2.525	33.56	20.17	99.3542
Total:			**2.322**	**12.521**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-11**	*Run Time (min):*	**12.00**
Vial Number:	**GB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**25.0000**
Injection Date/Time:	**13/Dec/12 23:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

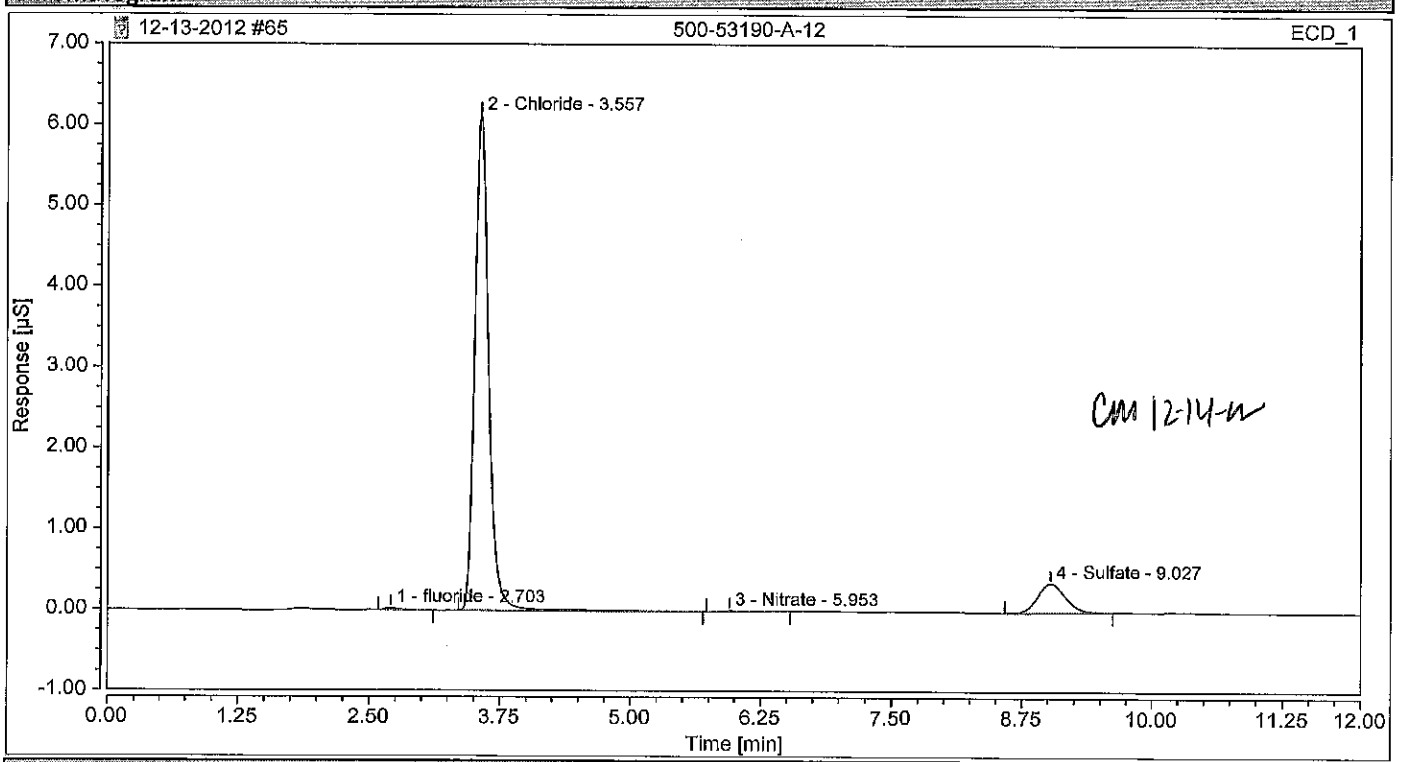
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.004	0.020	0.21	0.17	0.2870
2	Chloride	3.560	1.737	11.123	87.23	93.18	154.9152
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate ~~m~~	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate ~~m~~	9.027	0.250	0.794	12.56	6.65	31.8851
Total:			**1.991**	**11.938**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-12**	*Run Time (min):*	**12.00**
Vial Number:	**GB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**13/Dec/12 23:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

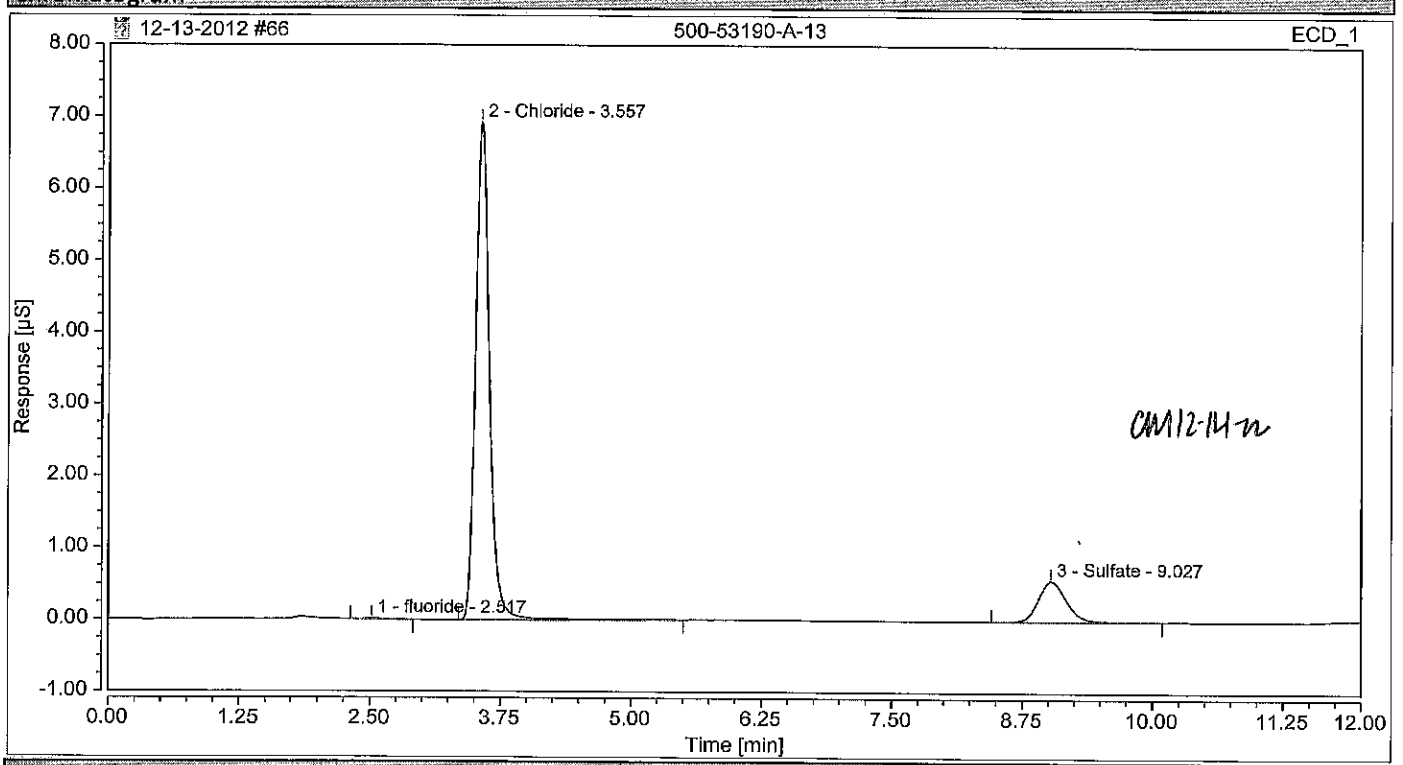
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.703	0.003	0.023	0.32	0.36	0.9361
2	Chloride	3.557	0.956	6.130	88.96	93.97	341.0614
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate KE	5.953	0.002	0.008	0.22	0.12	0.3602
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate KE	9.027	0.113	0.363	10.50	5.56	57.5434
Total:			**1.075**	**6.524**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-13**	*Run Time (min):*	**12.00**
Vial Number:	**GB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 00:02**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

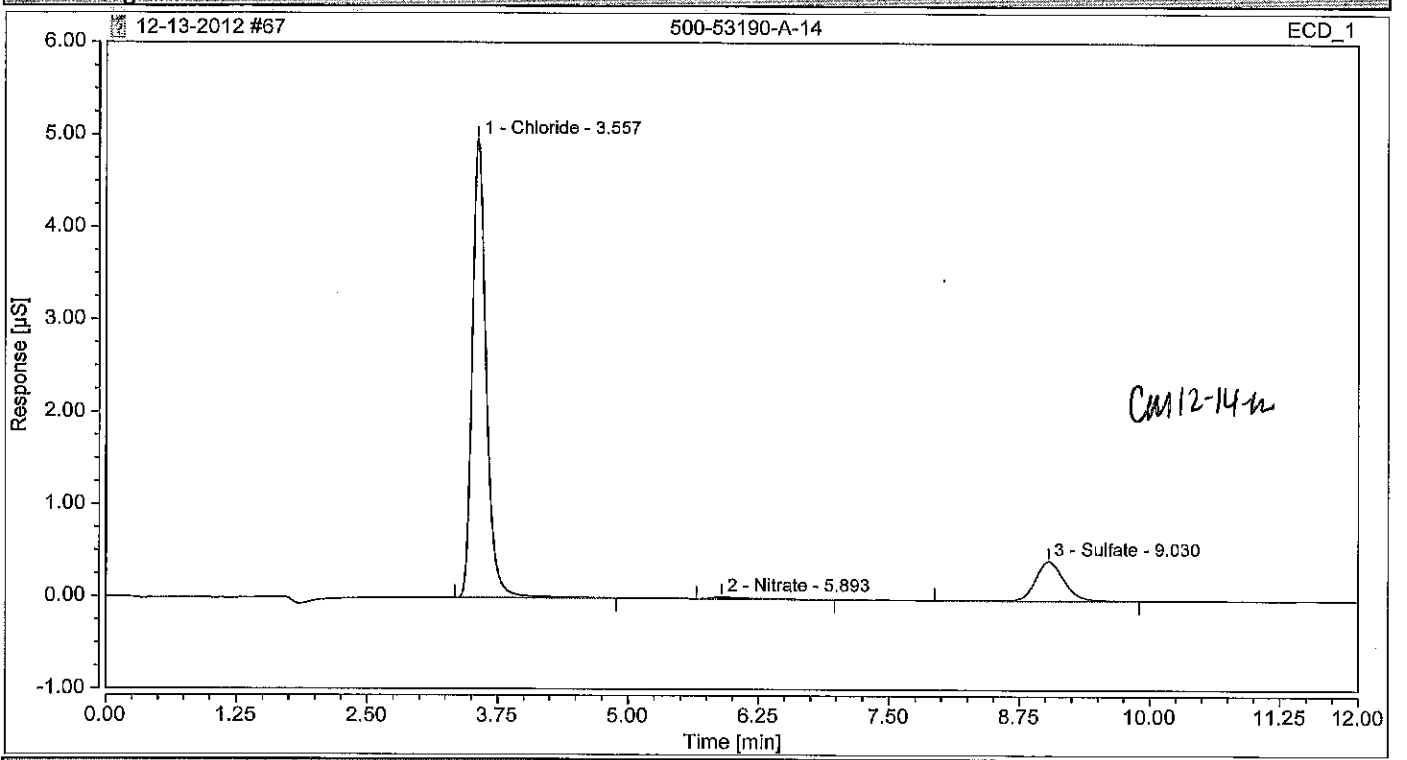
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.002	0.010	0.19	0.13	0.6367
2	Chloride	3.557	1.077	6.928	85.51	92.32	384.2437
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate KE	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate KE	9.027	0.180	0.567	14.31	7.56	91.8775
Total:			**1.259**	**7.504**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-14**	*Run Time (min):*	**12.00**
Vial Number:	**GB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 00:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

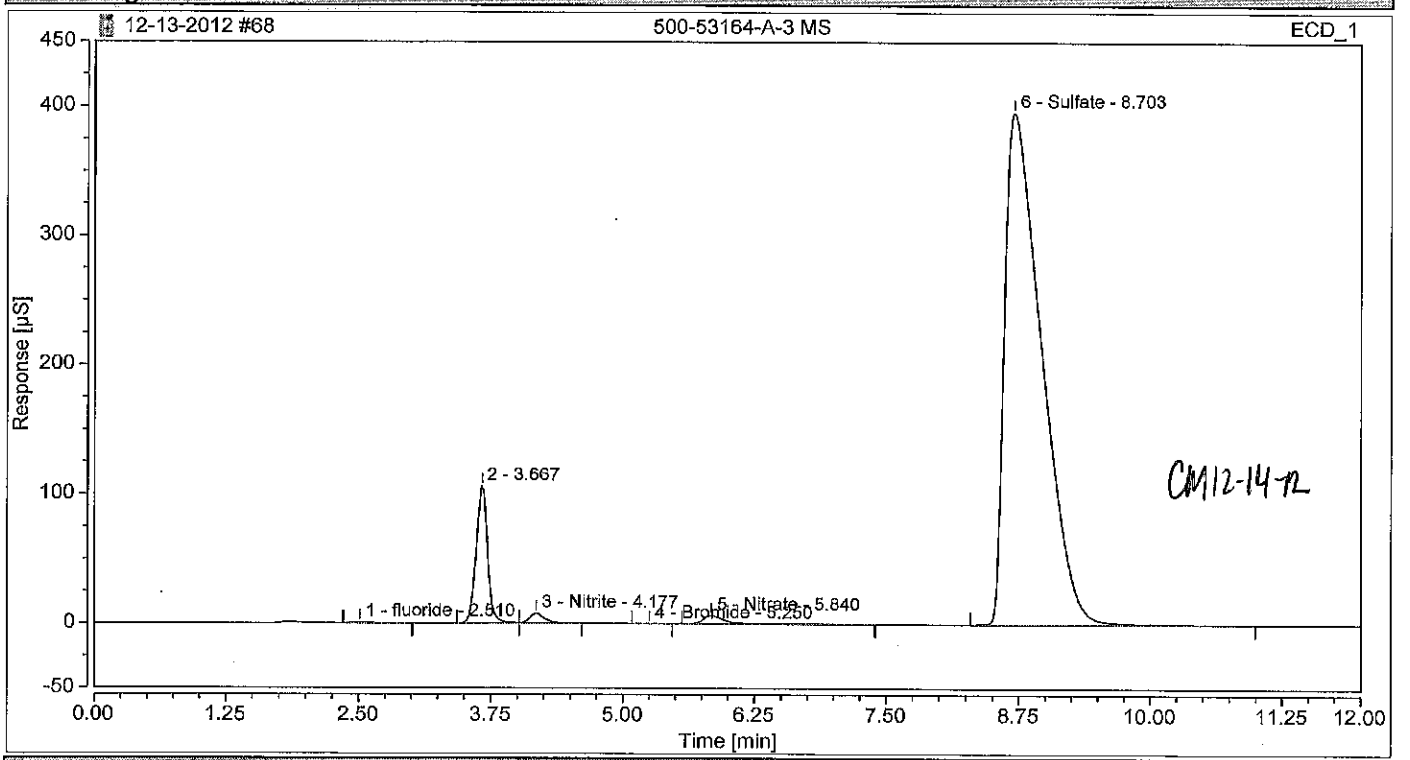
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.557	0.772	4.963	83.77	91.67	275.5924
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate kt	5.893	0.009	0.022	1.01	0.40	1.3962
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate kt	9.030	0.140	0.429	15.22	7.93	71.5751
Total:			**0.922**	**5.414**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RD1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 00:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

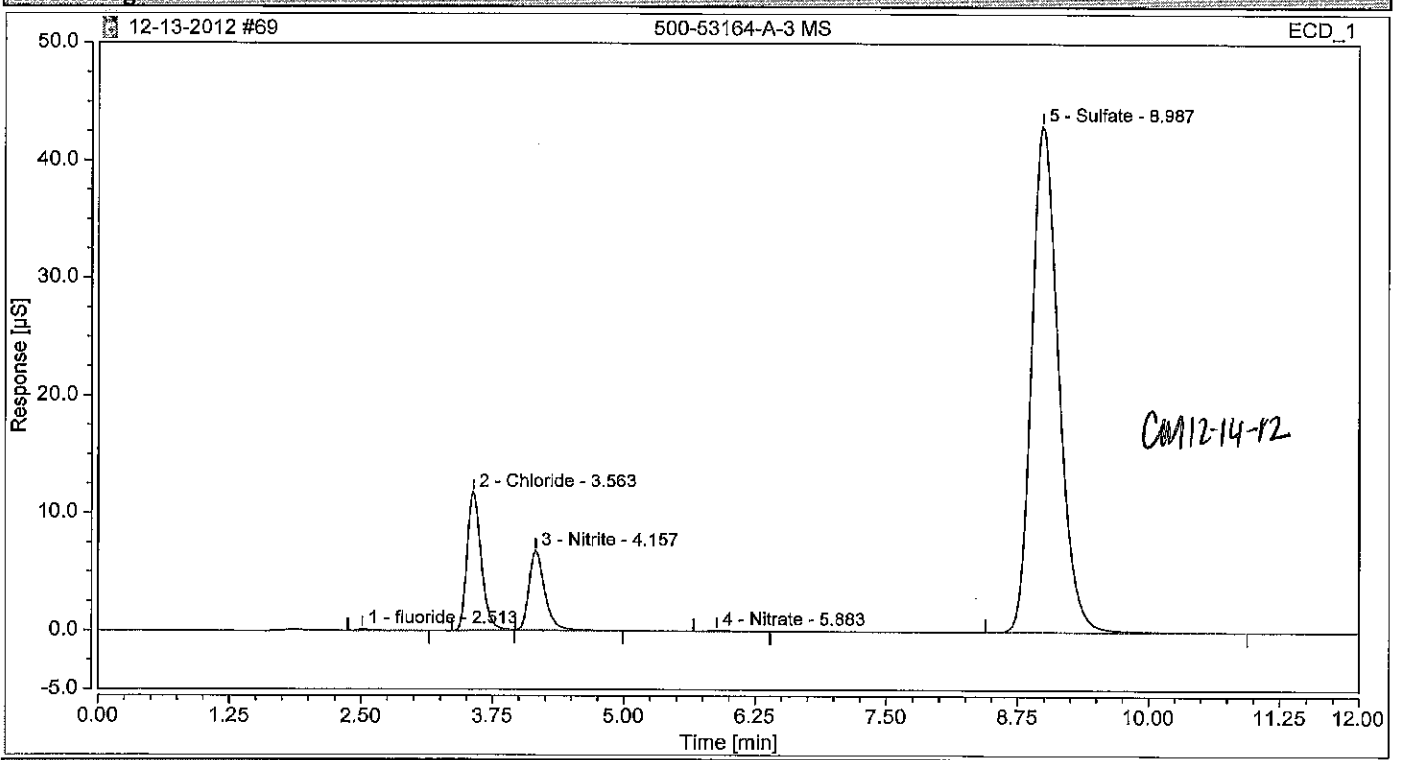
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.151	0.902	0.09	0.17	0.4114
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.667	13.126	105.961	7.47	20.51	n.a.
3	Nitrite	4.177	1.166	7.441	0.66	1.44	1.8187
4	Bromide	5.250	0.009	0.050	0.00	0.01	0.0791
5	Nitrate	5.840	1.469	6.403	0.84	1.24	2.2055
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.703	159.907	395.946	90.95	76.63	815.4313
Total:			**175.827**	**516.702**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RD2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 00:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

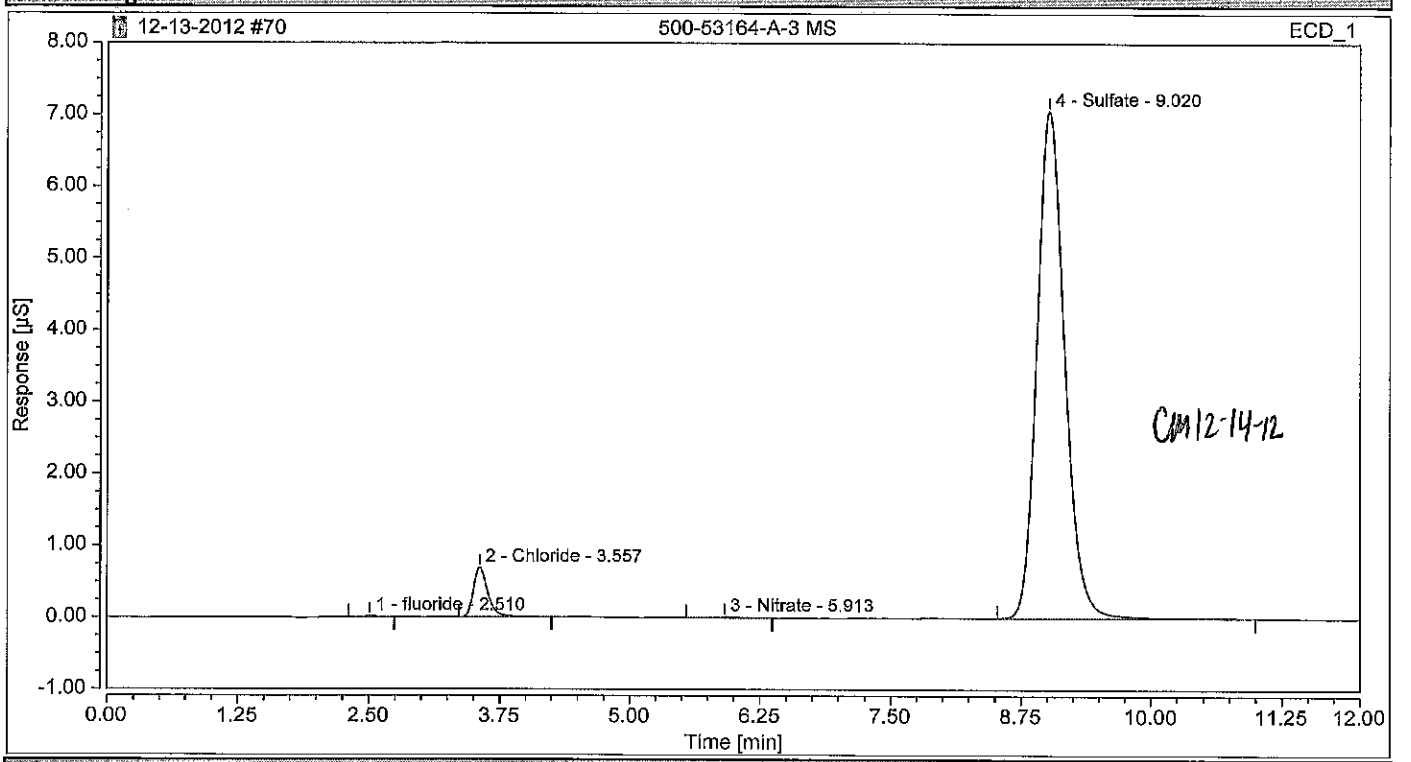
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.020	0.114	0.13	0.18	0.5439
2	Chloride	3.563	1.848	11.732	11.59	19.02	65.9276
3	Nitrite	4.157	1.168	6.721	7.33	10.90	18.2268
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.883	0.016	0.065	0.10	0.11	0.2334
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.987	12.886	43.047	80.85	69.79	657.1034
Total:			**15.937**	**61.680**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RD3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 00:55**	*Sample Weight:*	**1.0000**

Chromatogram



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Integration Results

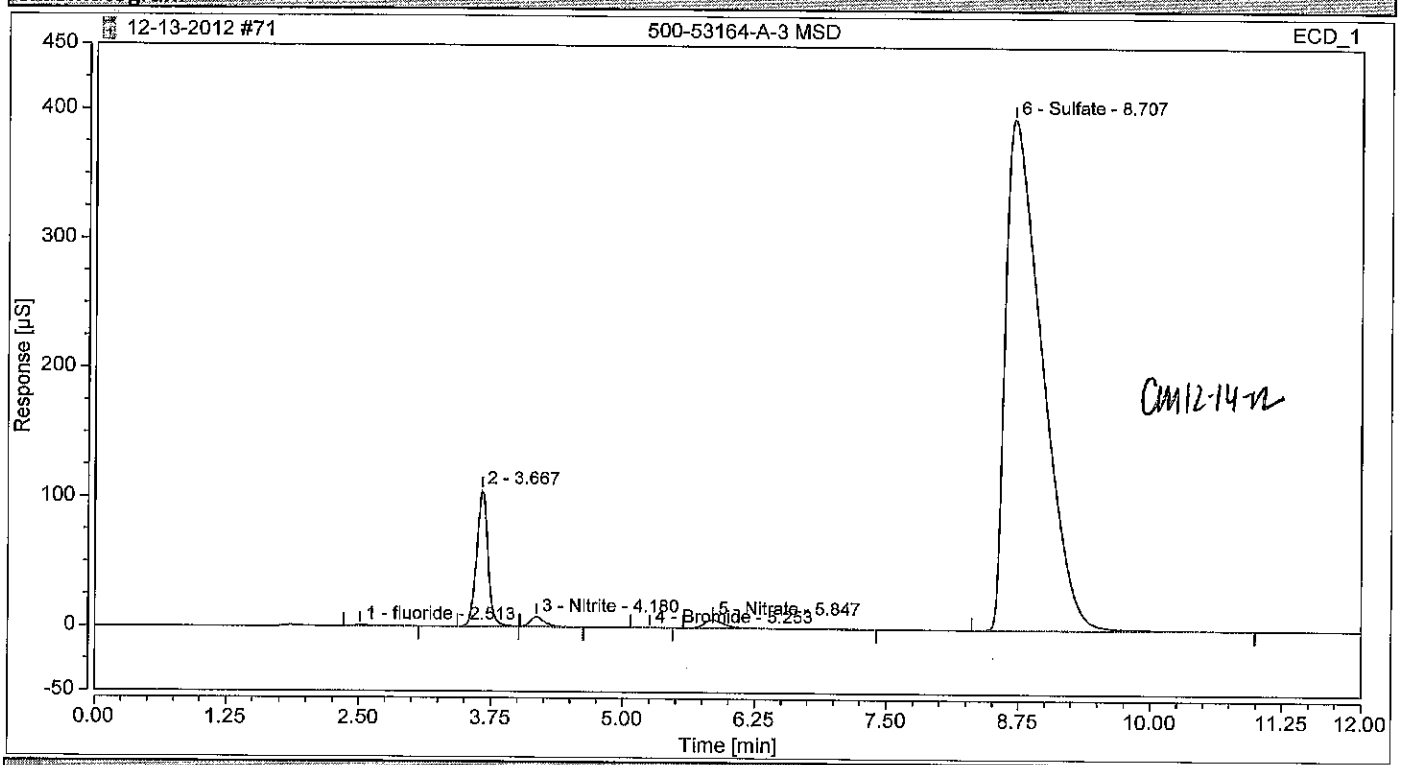
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.002	0.013	0.08	0.16	0.4780
2	Chloride	3.557	0.109	0.685	4.73	8.81	38.7582
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.913	0.004	0.015	0.18	0.19	0.6273
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.020	2.180	7.064	95.01	90.84	1111.6713
Total:			**2.295**	**7.777**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RD4**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 01:08**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

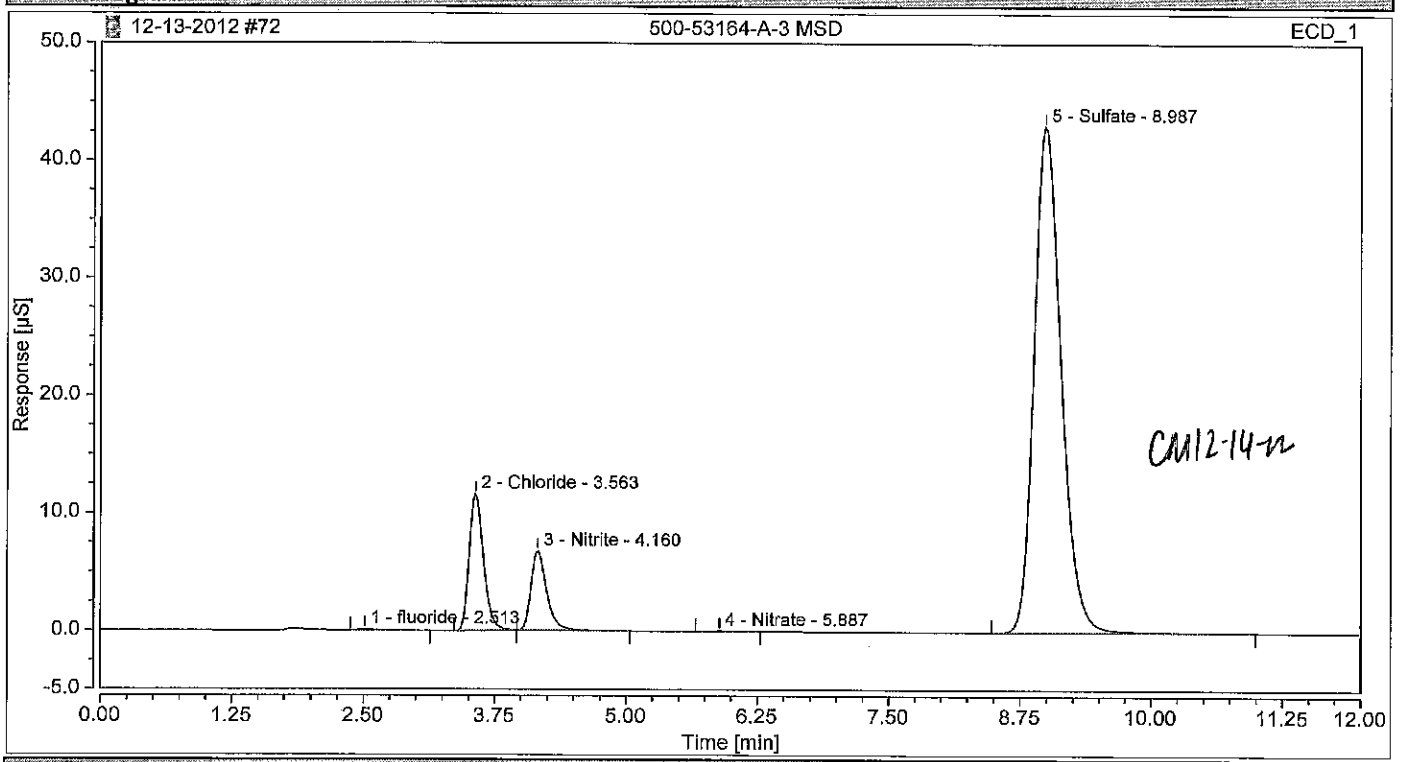
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.149	0.907	0.08	0.18	0.4048
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.667	13.114	105.747	7.48	20.50	n.a.
3	Nitrite	4.180	1.164	7.423	0.66	1.44	1.8156
4	Bromide	5.253	0.009	0.050	0.00	0.01	0.0800
5	Nitrate	5.847	1.440	6.364	0.82	1.23	2.1622
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.707	159.537	395.273	90.95	76.64	813.5439
Total:			**175.411**	**515.764**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RD5**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 01:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

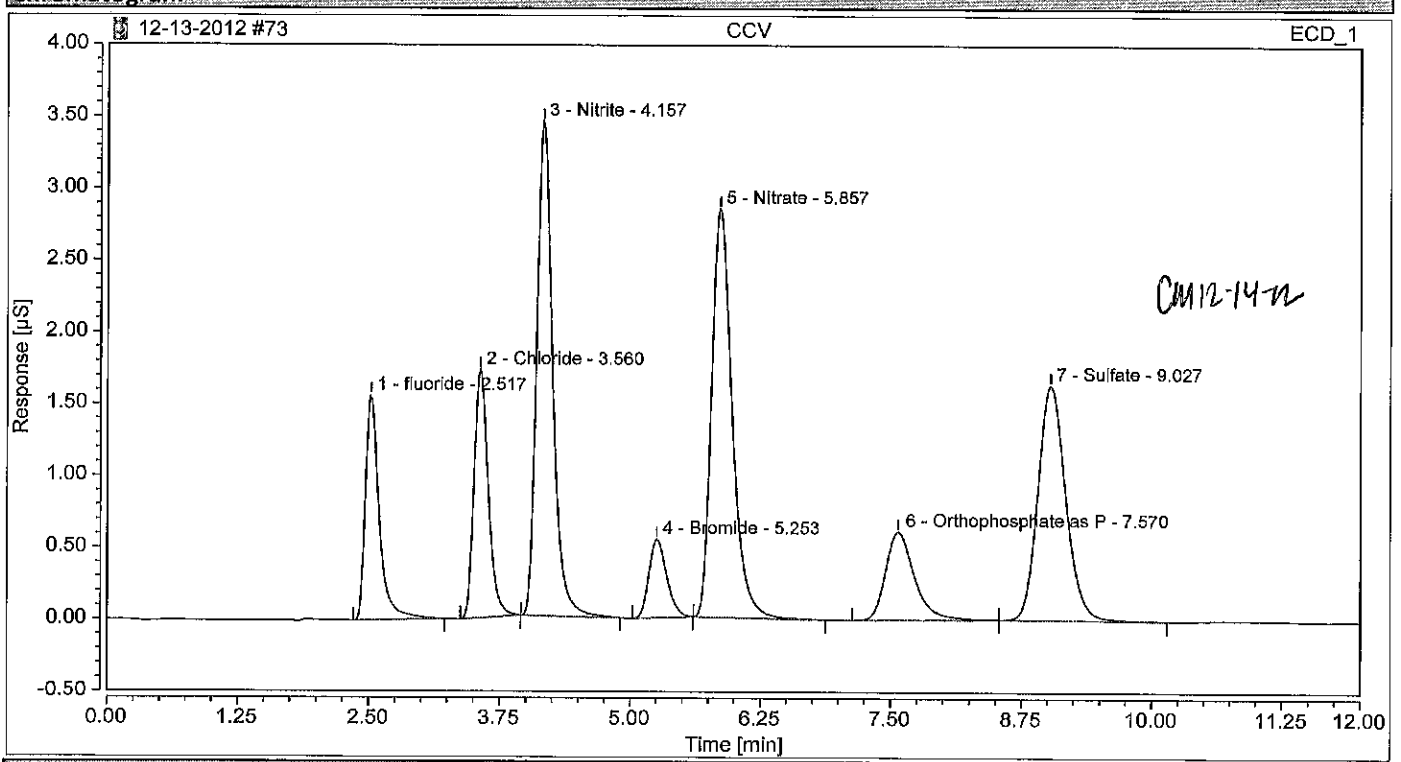
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.018	0.112	0.11	0.18	0.4847
2	Chloride	3.563	1.836	11.625	11.53	18.88	65.5181
3	Nitrite	4.160	1.170	6.724	7.35	10.92	18.2497
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.887	0.011	0.049	0.07	0.08	0.1691
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.987	12.885	43.060	80.94	69.94	657.0738
Total:			**15.920**	**61.570**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 01:35**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

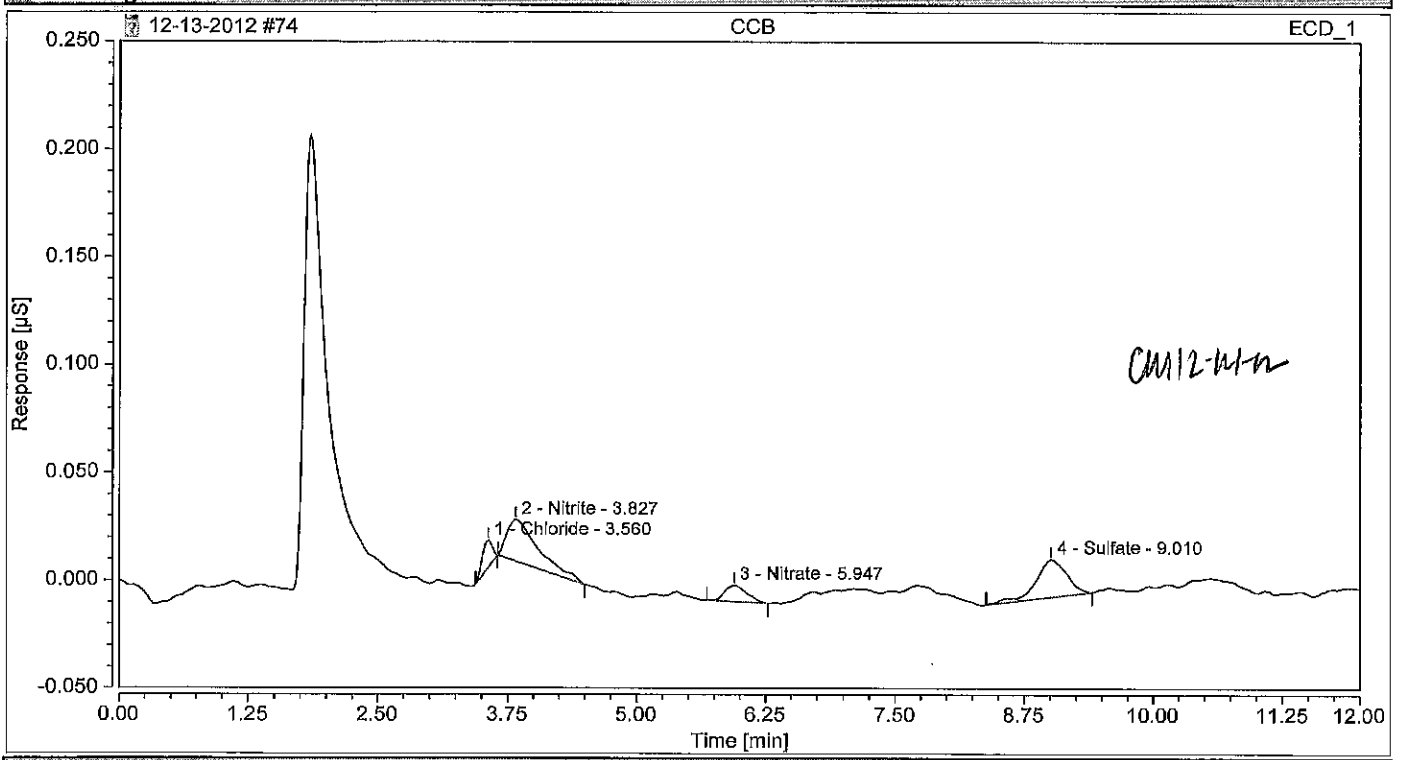
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.240	1.563	9.30	12.64	0.6543
2	Chloride	3.560	0.272	1.725	10.53	13.95	0.9703
3	Nitrite	4.157	0.608	3.441	23.53	27.84	0.9486
4	Bromide	5.253	0.108	0.545	4.19	4.41	0.9925
5	Nitrate	5.857	0.653	2.842	25.27	22.99	0.9805
6	Orthophosphate as P	7.570	0.195	0.614	7.55	4.97	0.9797
7	Sulfate	9.027	0.507	1.632	19.64	13.20	2.5878
Total:			**2.584**	**12.363**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 01:48**	*Sample Weight:*	**1.0000**

Chromatogram



CM12-M-n

Integration Results

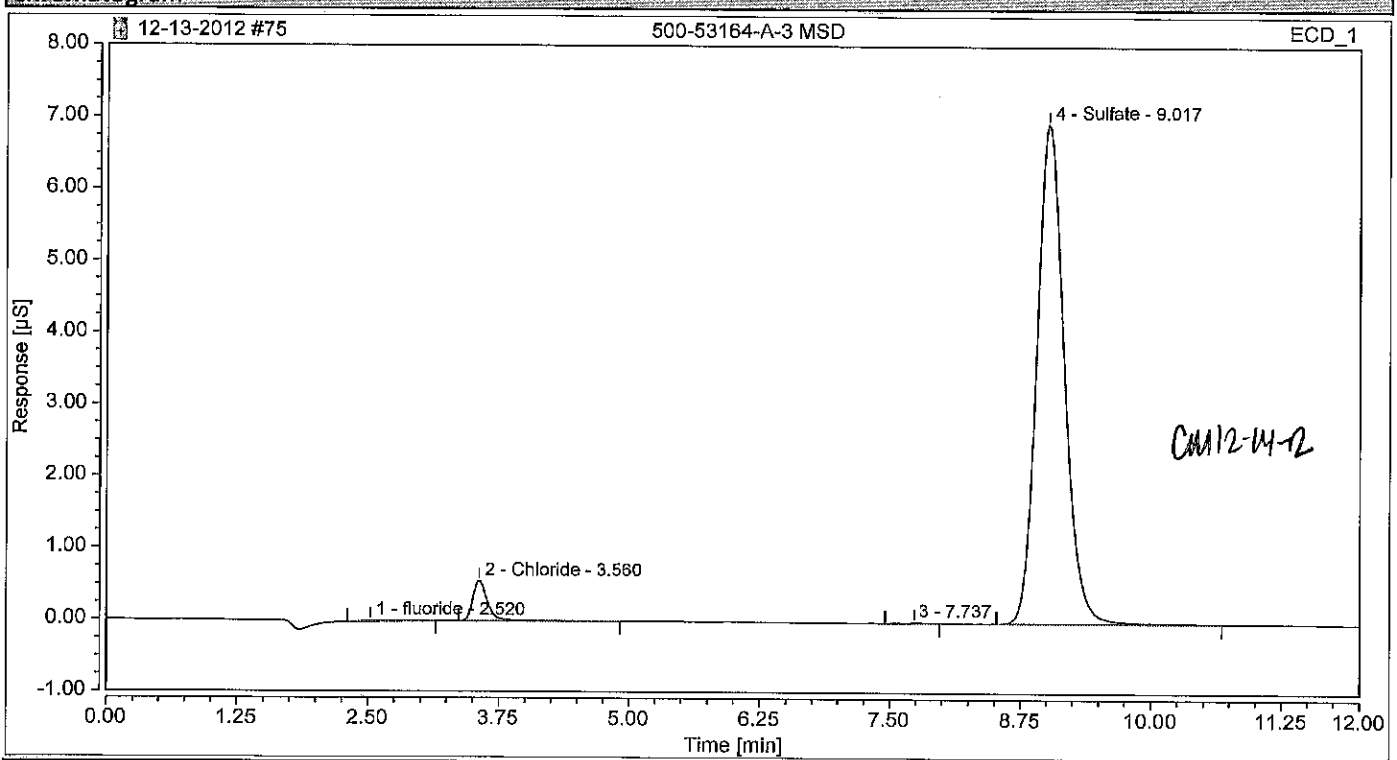
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.560	0.001	0.013	8.74	22.16	0.0051
2	Nitrite	3.827	0.007	0.019	42.60	33.78	0.0108
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.947	0.002	0.008	11.62	13.28	0.0028
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.010	0.006	0.017	37.03	30.78	0.0307
Total:			**0.016**	**0.057**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53164-A-3 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RD6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 02:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

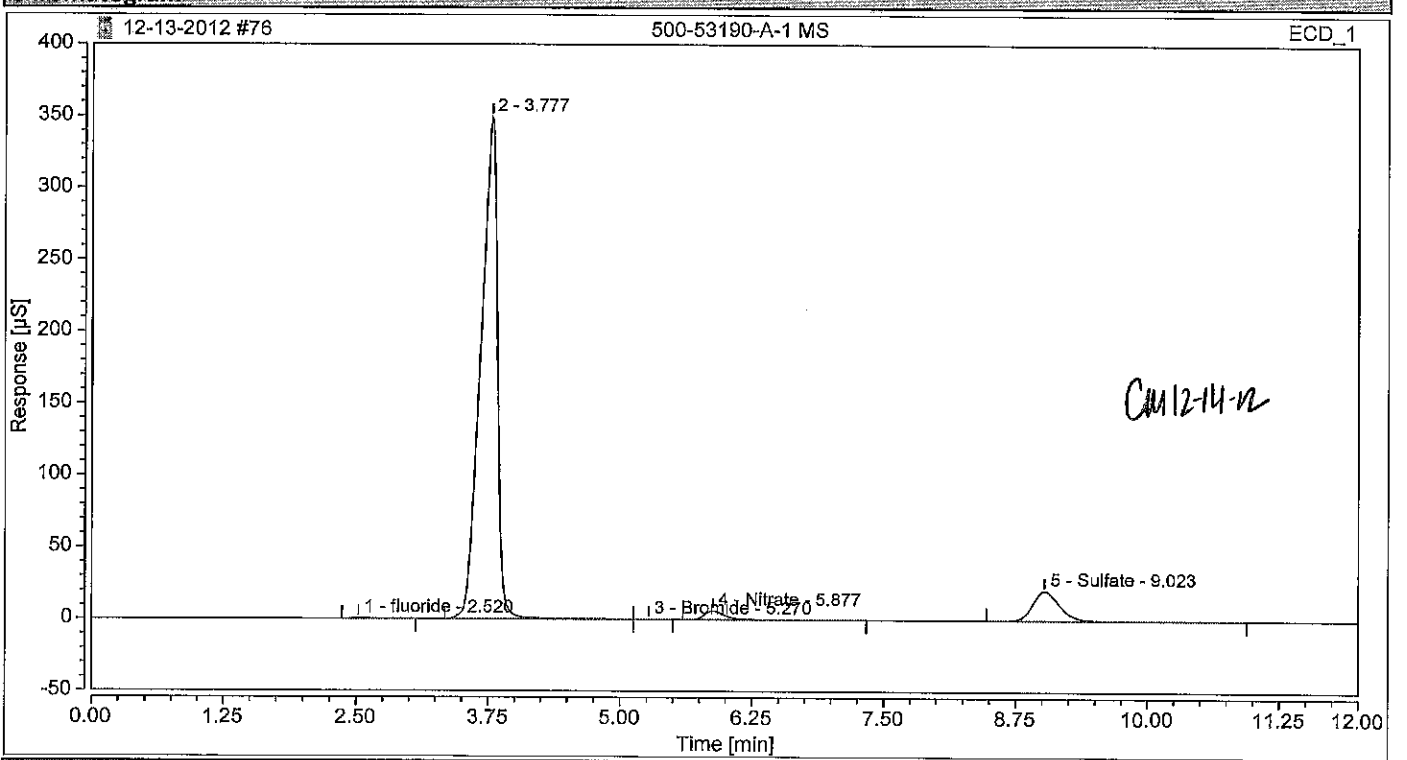
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.004	0.014	0.17	0.19	1.0556
2	Chloride	3.560	0.090	0.553	4.05	7.34	32.2872
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		7.737	0.002	0.012	0.07	0.16	n.a.
4	Sulfate	9.017	2.136	6.951	95.70	92.31	1089.3000
Total:			**2.232**	**7.530**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 02:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

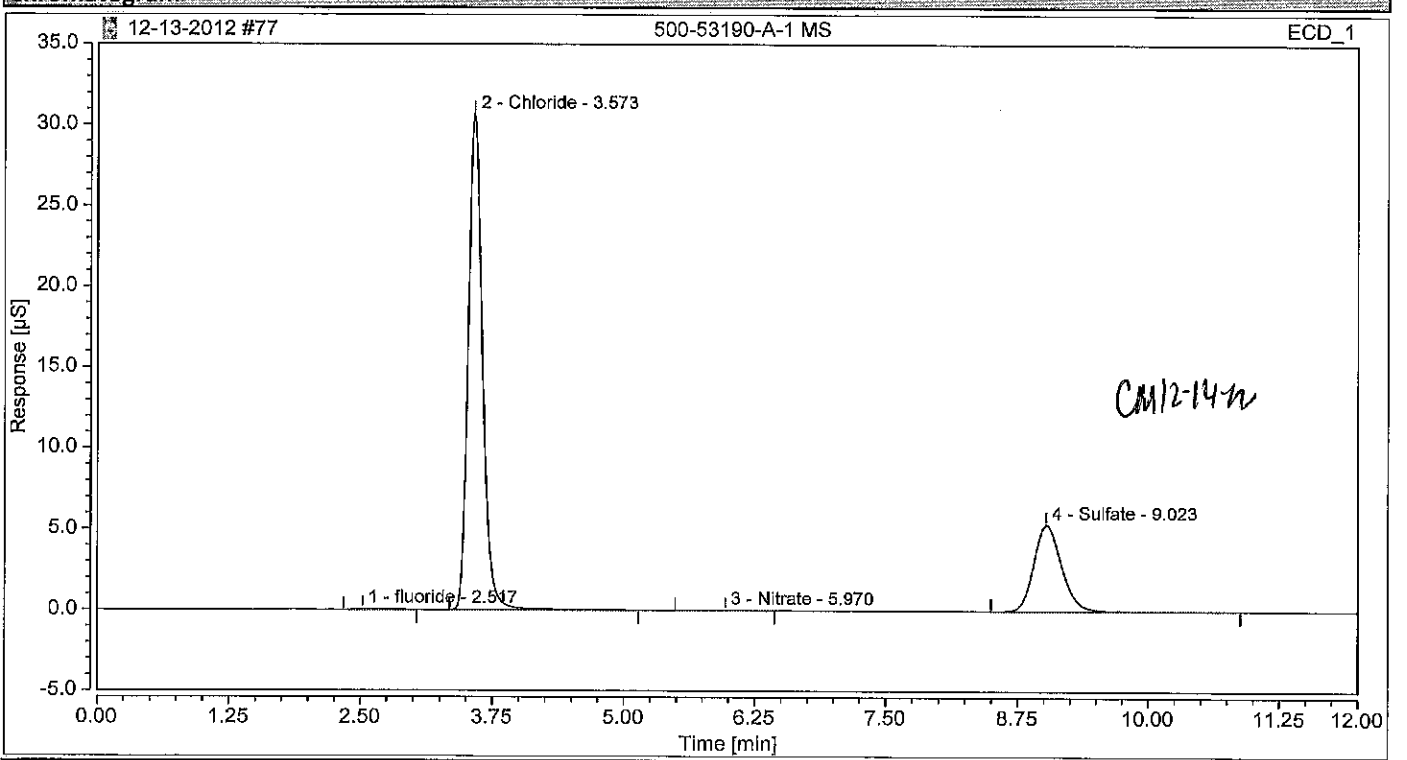
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.066	0.392	0.09	0.10	0.1808
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.777	63.513	349.469	89.29	92.78	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.270	0.005	0.032	0.01	0.01	0.0503
4	Nitrate	5.877	1.369	6.043	1.92	1.60	2.0555
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.023	6.175	20.737	8.68	5.51	31.4910
Total:			**71.129**	**376.673**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 02:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

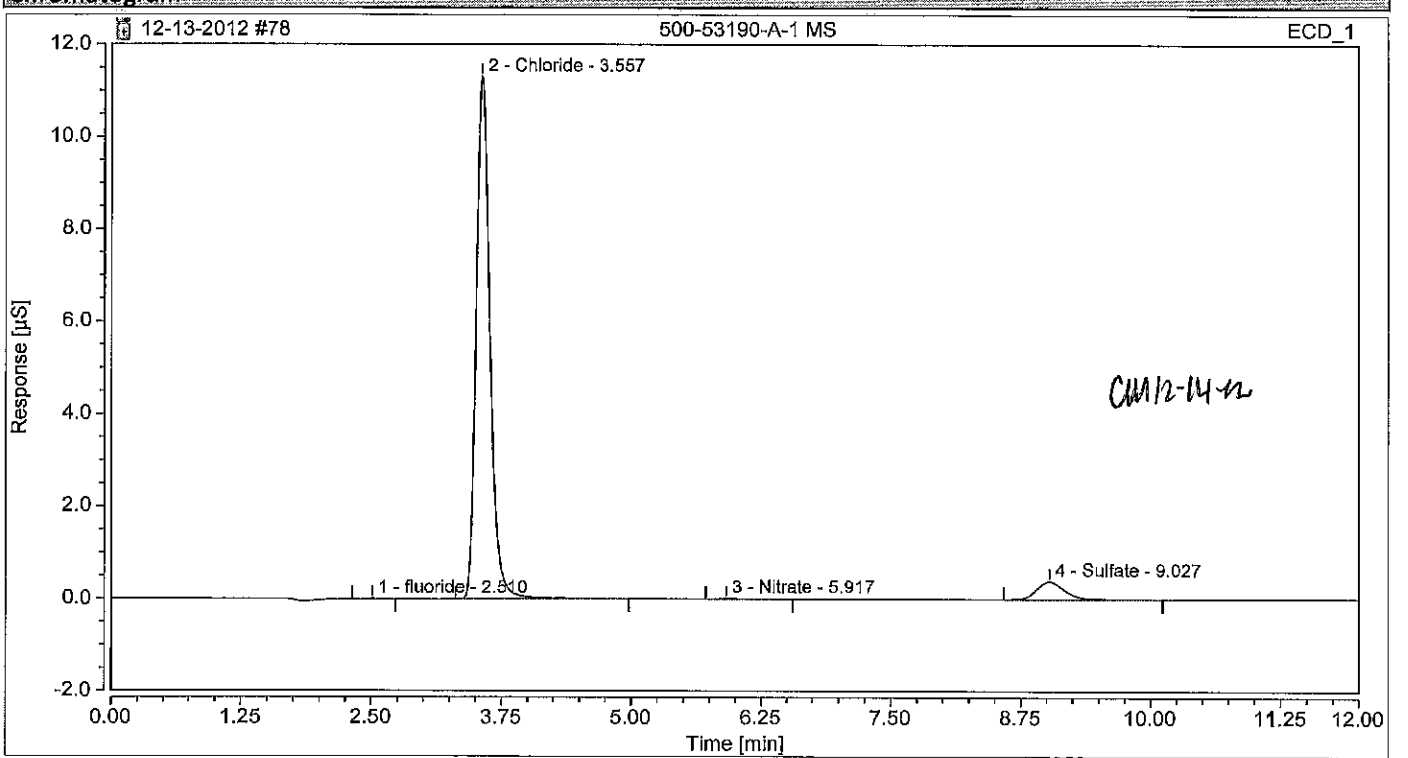
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.012	0.062	0.19	0.17	0.3358
2	Chloride	3.573	4.813	30.677	74.18	84.96	171.7121
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.970	0.005	0.013	0.07	0.04	0.0693
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.023	1.658	5.354	25.56	14.83	84.5601
Total:			**6.488**	**36.106**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MS**	*Run Time (min):*	**12.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Dec/12 02:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

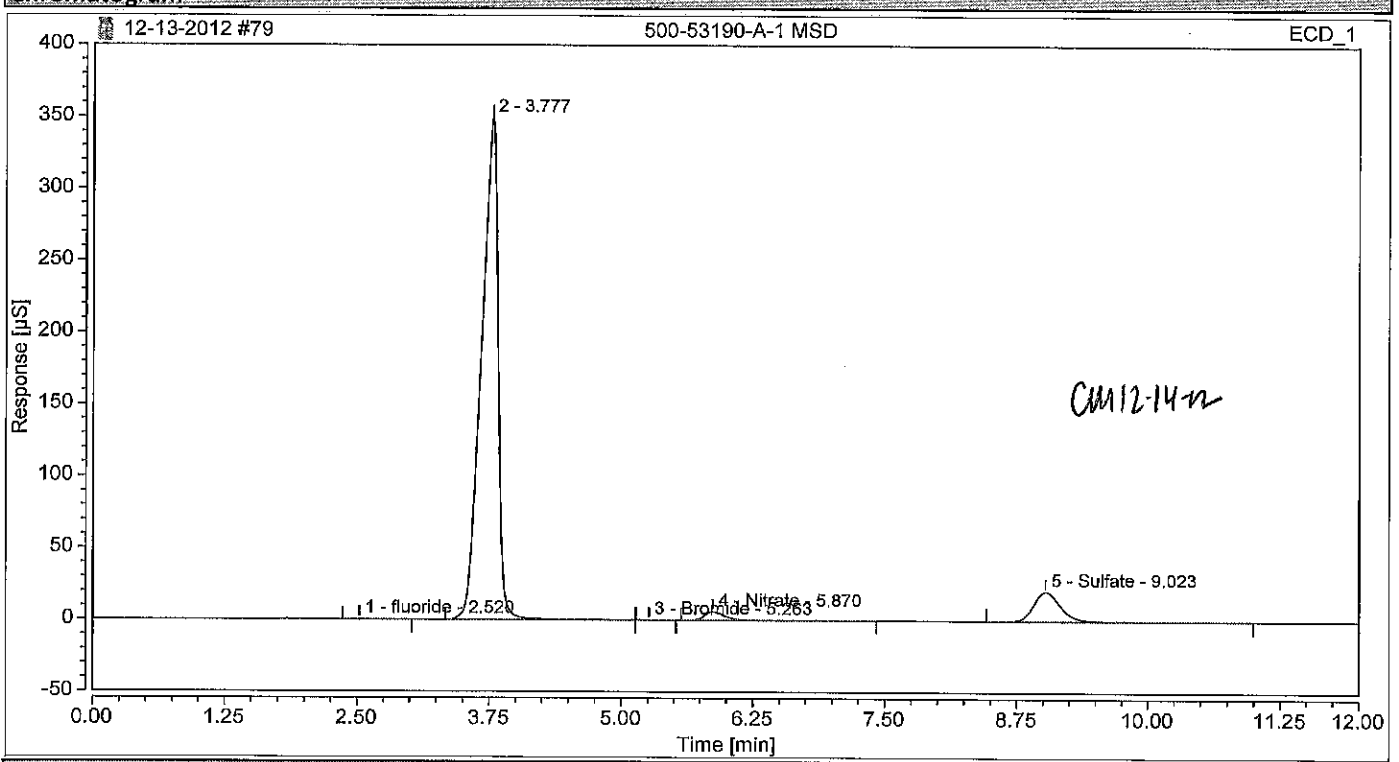
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.002	0.010	0.08	0.09	0.2096
2	Chloride	3.557	1.727	11.304	93.11	96.53	308.1614
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.917	0.003	0.010	0.16	0.09	0.2296
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.027	0.123	0.386	6.64	3.29	31.4098
Total:			**1.855**	**11.711**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 02:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

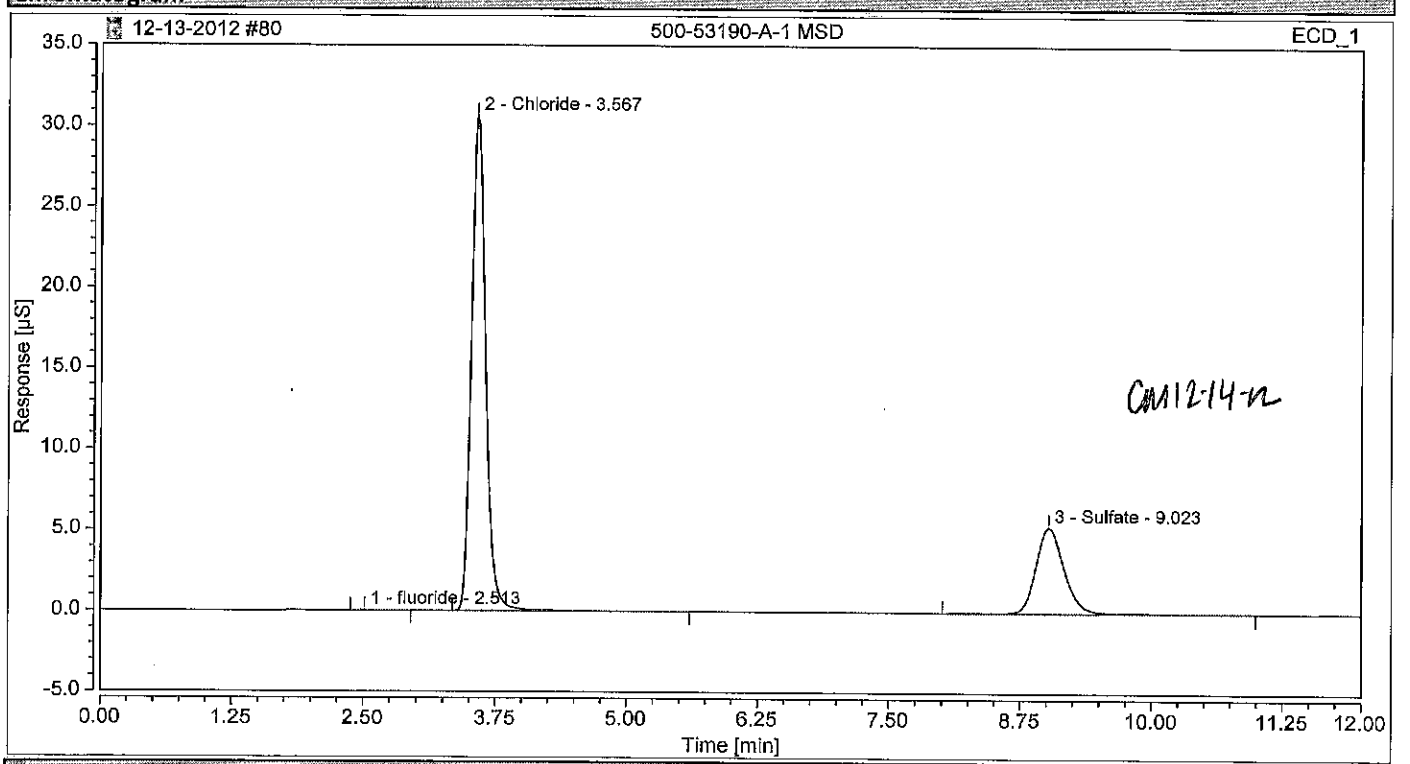
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.520	0.063	0.388	0.09	0.10	0.1719
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.777	63.540	349.473	89.31	92.78	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.263	0.005	0.031	0.01	0.01	0.0495
4	Nitrate	5.870	1.364	6.020	1.92	1.60	2.0477
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.023	6.174	20.740	8.68	5.51	31.4851
Total:			**71.147**	**376.652**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 03:08**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

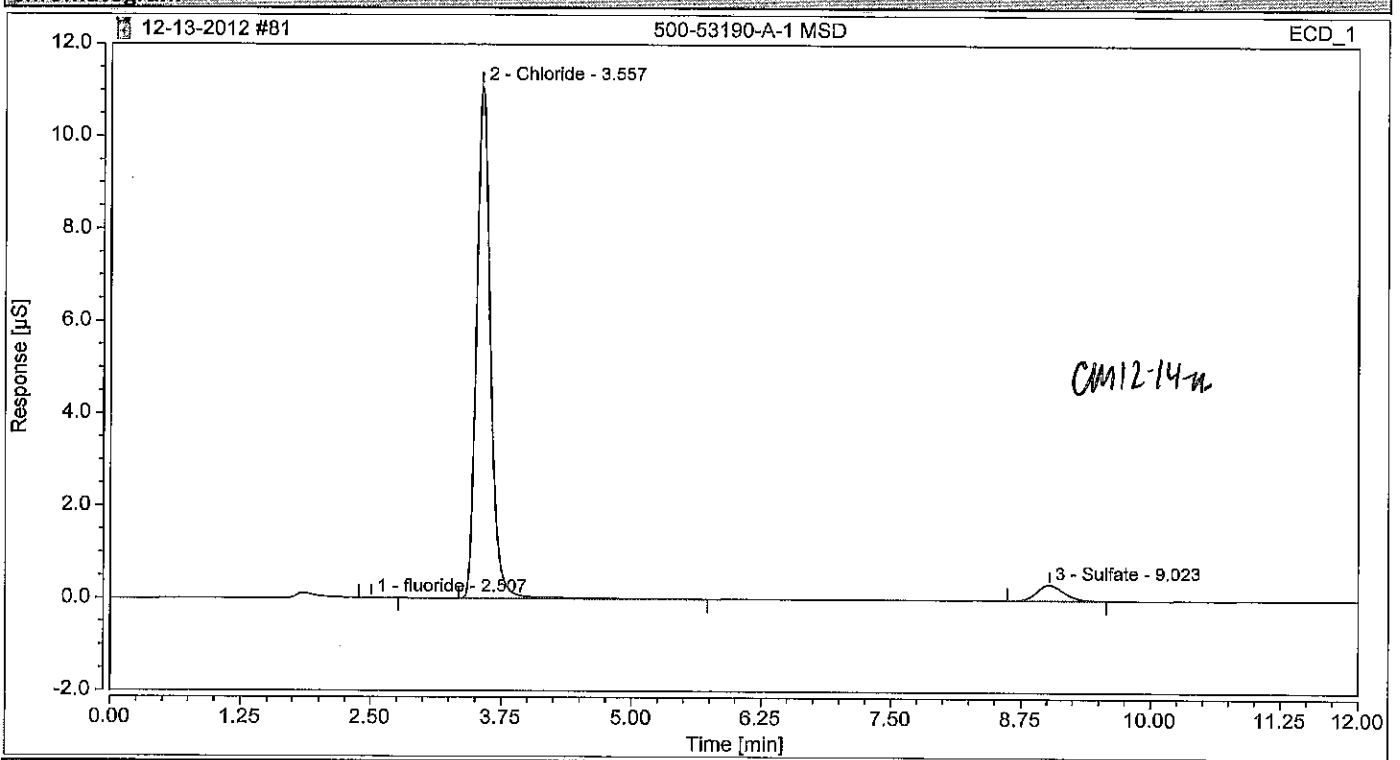
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.007	0.048	0.11	0.13	0.1931
2	Chloride	3.567	4.808	30.650	74.29	85.10	171.5277
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	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	9.023	1.657	5.320	25.60	14.77	84.4761
Total:			**6.471**	**36.018**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53190-A-1 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Dec/12 03:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

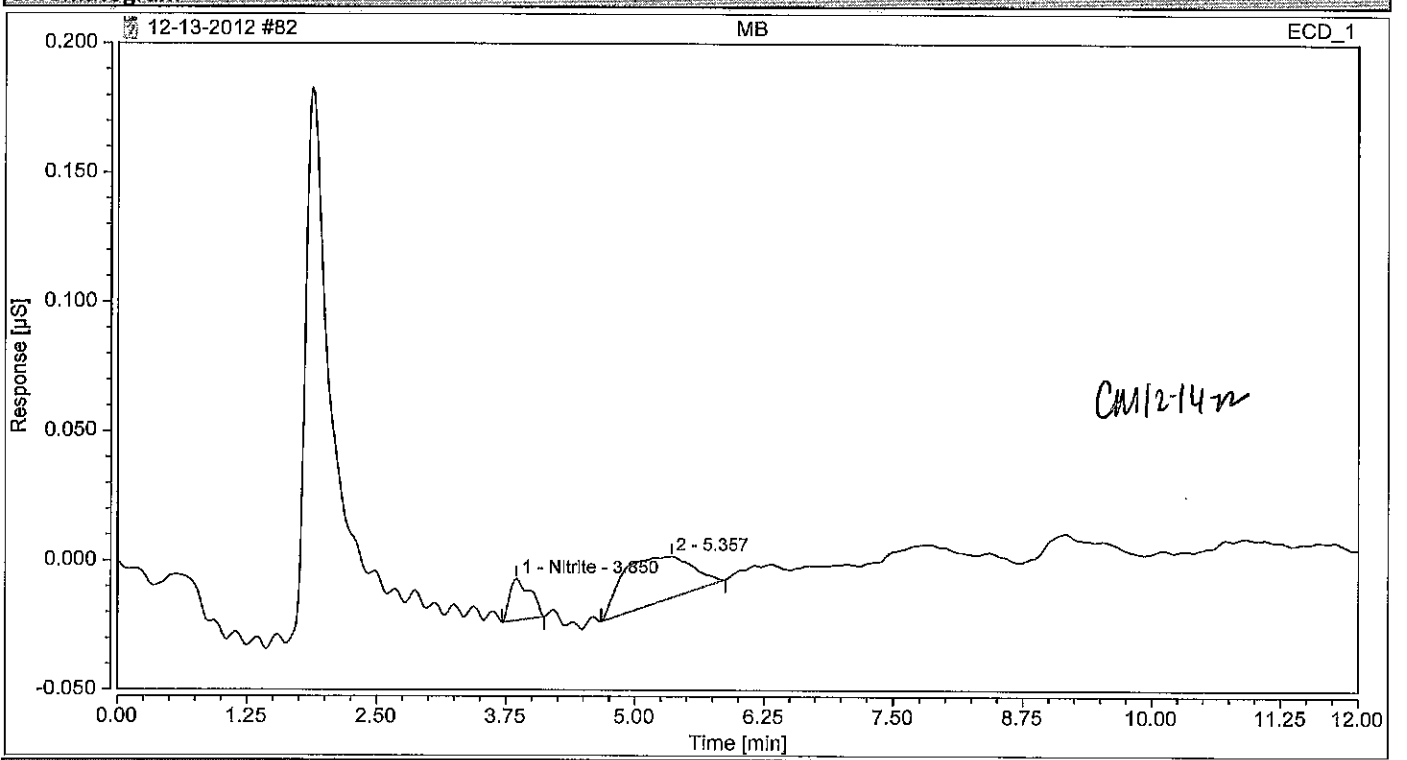
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.507	0.001	0.009	0.07	0.08	0.1814
2	Chloride	3.557	1.718	11.110	94.22	96.97	306.4088
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	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	9.023	0.104	0.339	5.71	2.96	26.5298
Total:			**1.823**	**11.457**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MB**	*Run Time (min):*	**12.00**
Vial Number:	**RA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 03:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

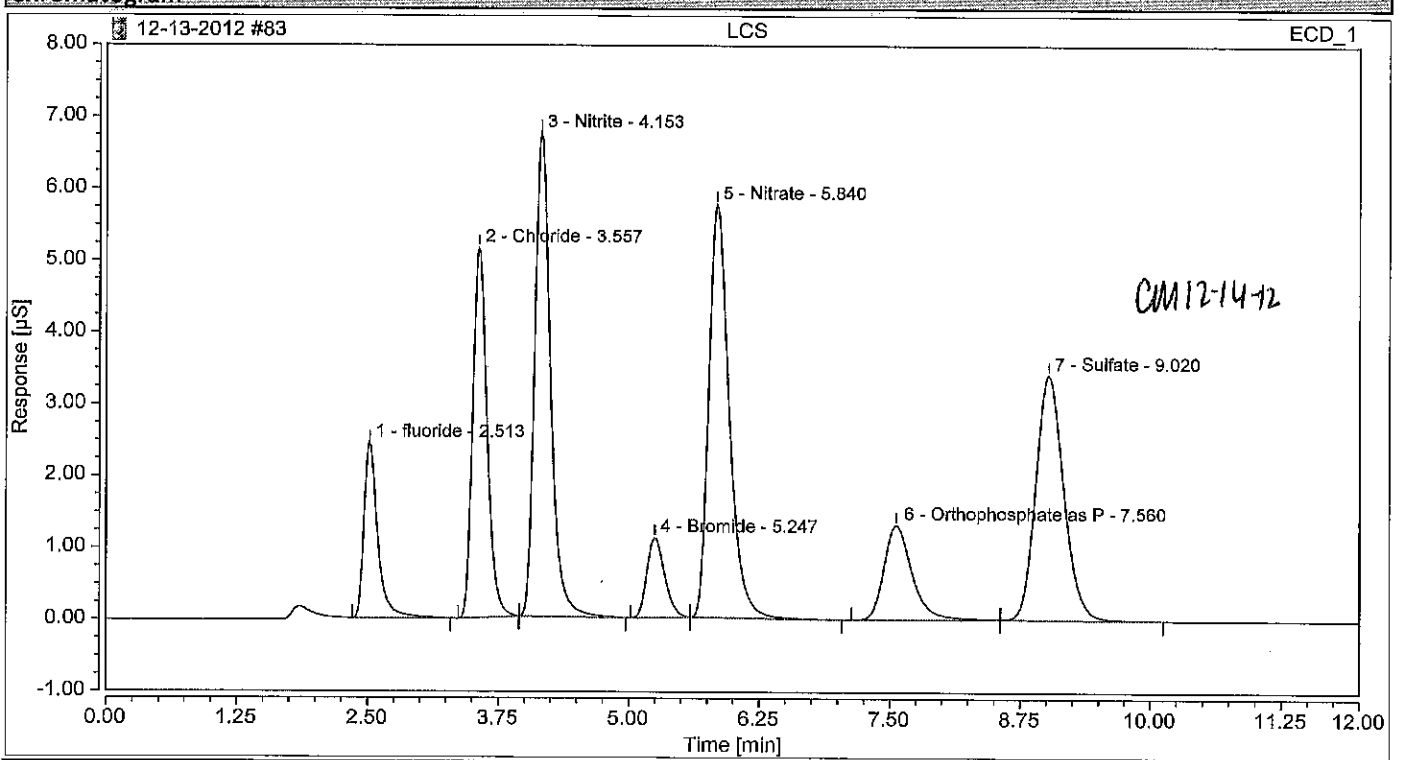
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite	3.850	0.004	0.016	21.21	50.22	0.0058
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		5.357	0.014	0.016	78.79	49.78	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:			**0.017**	**0.032**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**12.00**
Vial Number:	**RA4**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 03:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

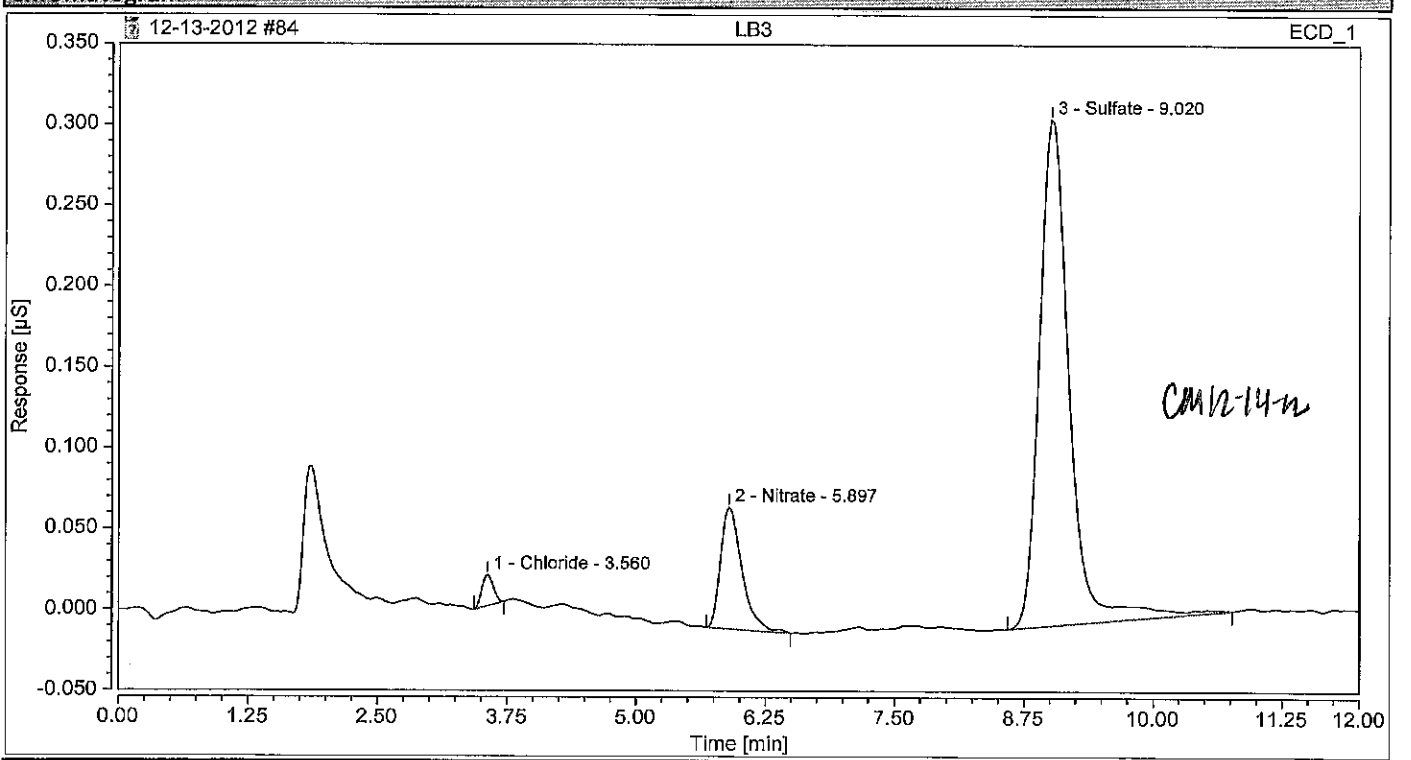
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.376	2.440	6.99	9.42	1.0227
2	Chloride	3.557	0.811	5.150	15.09	19.88	2.8926
3	Nitrite	4.153	1.187	6.731	22.09	25.98	1.8521
4	Bromide	5.247	0.221	1.112	4.10	4.29	2.0223
5	Nitrate	5.840	1.310	5.749	24.38	22.19	1.9672
6	Orthophosphate as P	7.560	0.415	1.318	7.72	5.09	2.0818
7	Sulfate	9.020	1.055	3.407	19.63	13.15	5.3776
Total:			**5.373**	**25.908**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LB3**	*Run Time (min):*	**12.00**
Vial Number:	**BA1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 04:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

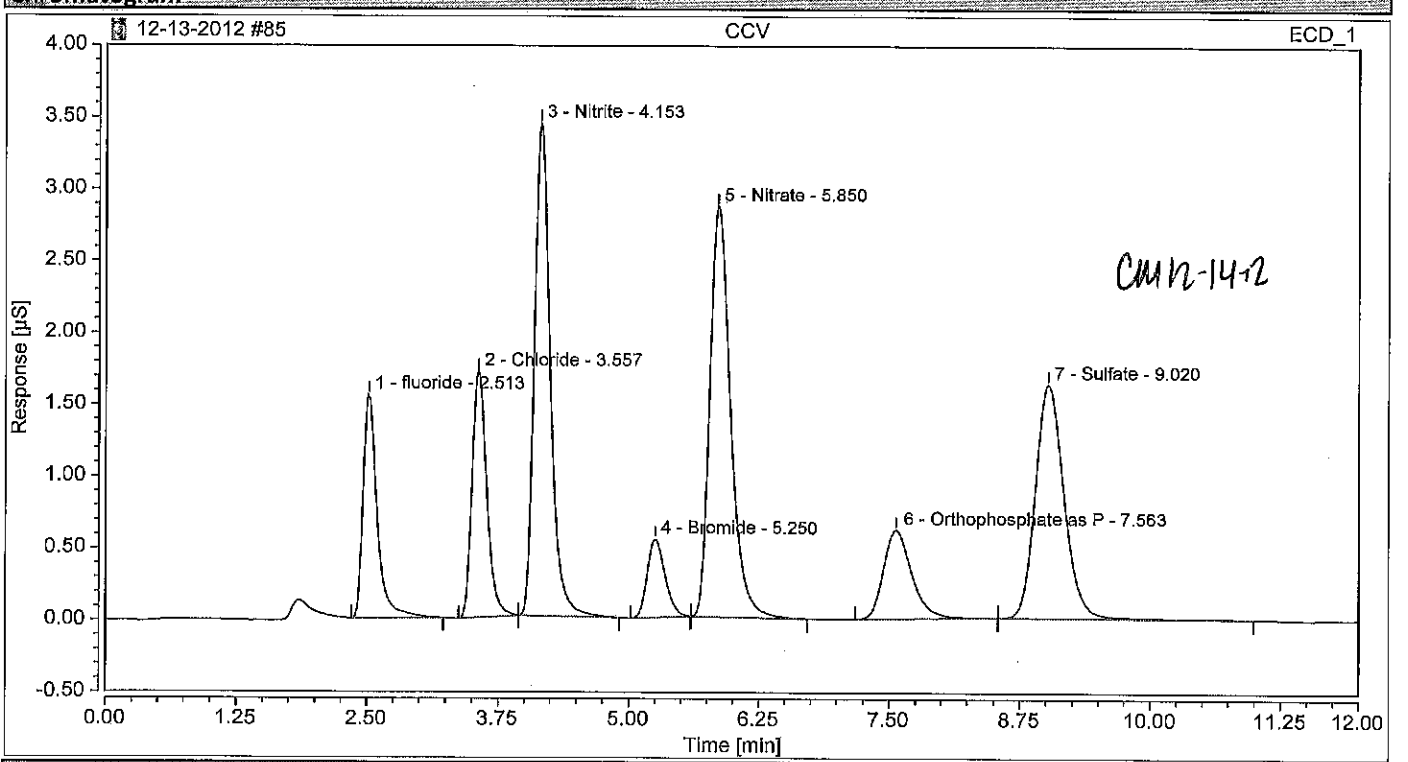
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	3.560	0.002	0.019	1.93	4.69	0.0087
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate	5.897	0.018	0.075	14.29	18.46	0.0270
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.020	0.106	0.313	83.78	76.85	0.5385
Total:			**0.126**	**0.408**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 04:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

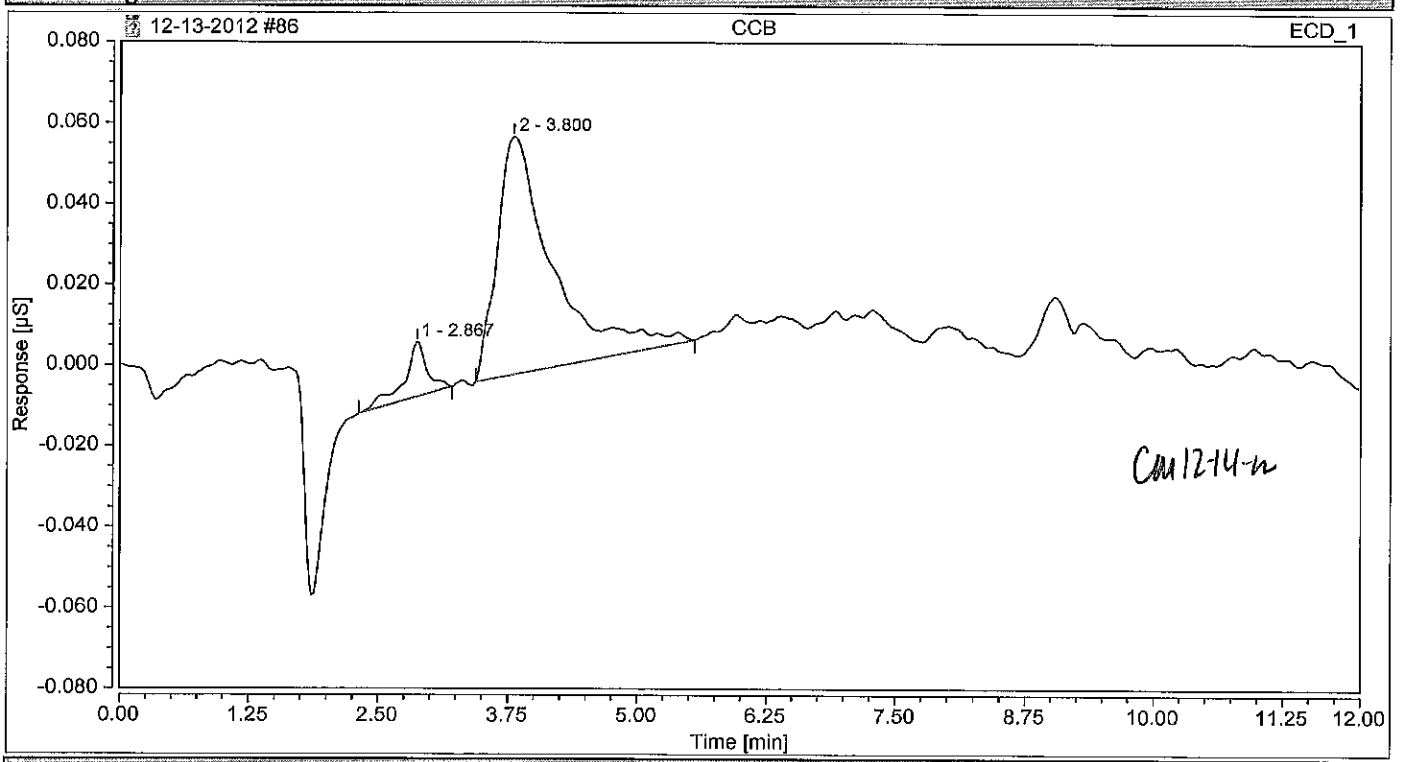
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.242	1.555	9.27	12.60	0.6584
2	Chloride	3.557	0.275	1.712	10.52	13.87	0.9795
3	Nitrite	4.153	0.609	3.430	23.33	27.79	0.9497
4	Bromide	5.250	0.109	0.544	4.17	4.41	0.9971
5	Nitrate	5.850	0.662	2.857	25.39	23.14	0.9945
6	Orthophosphate as P	7.563	0.194	0.618	7.45	5.00	0.9767
7	Sulfate	9.020	0.518	1.628	19.87	13.19	2.6434
Total:			**2.609**	**12.344**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 04:28**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

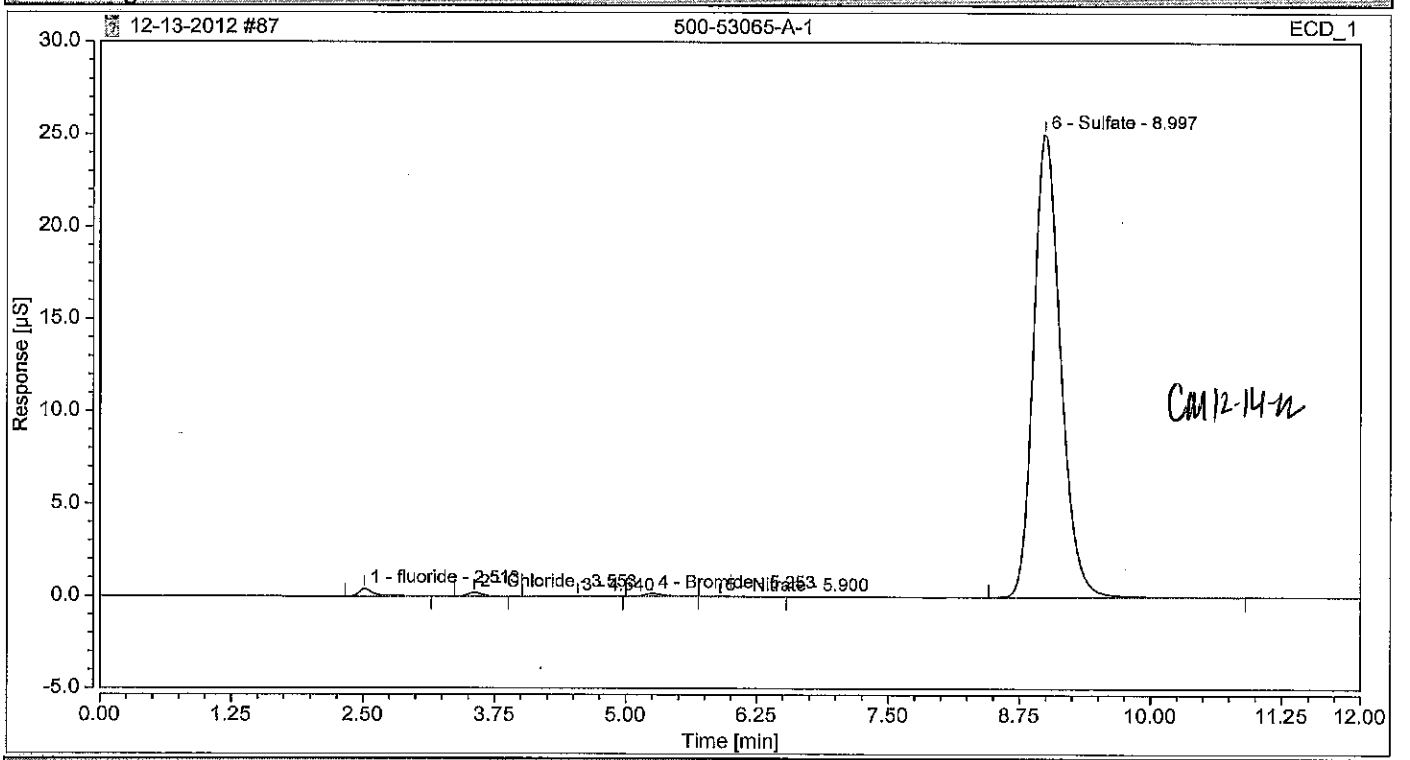
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.867	0.004	0.014	8.81	18.68	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.800	0.036	0.059	91.19	81.32	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
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:			**0.040**	**0.072**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53065-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BA2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 04:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

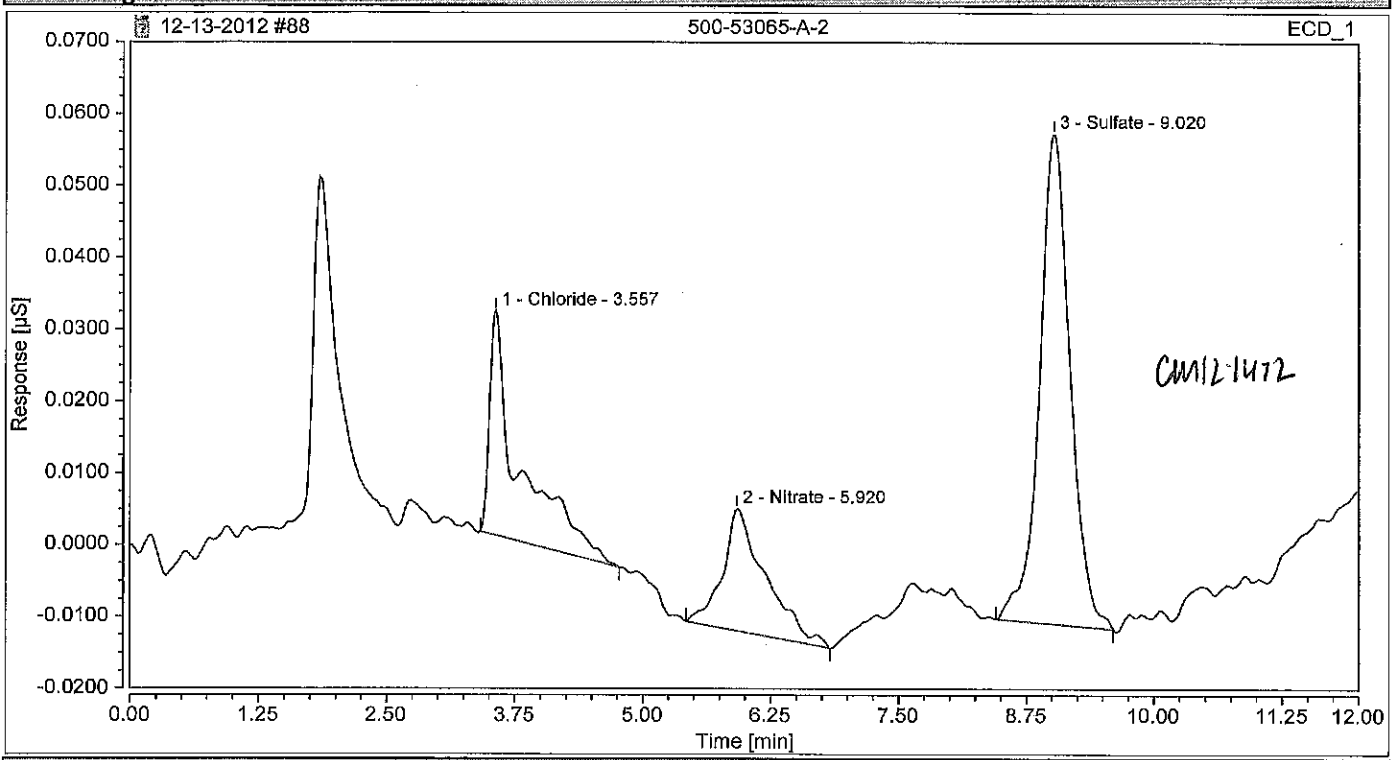
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.069	0.416	0.90	1.61	1.8712
2	Chloride m	3.553	0.033	0.213	0.43	0.82	1.1856
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.540	0.006	0.011	0.08	0.04	n.a.
4	Bromide m	5.253	0.033	0.156	0.43	0.60	3.0261
5	Nitrate m	5.900	0.007	0.024	0.10	0.09	0.1109
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	8.997	7.526	25.096	98.07	96.84	383.7698
Total:			**7.674**	**25.916**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53065-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BA3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 04:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

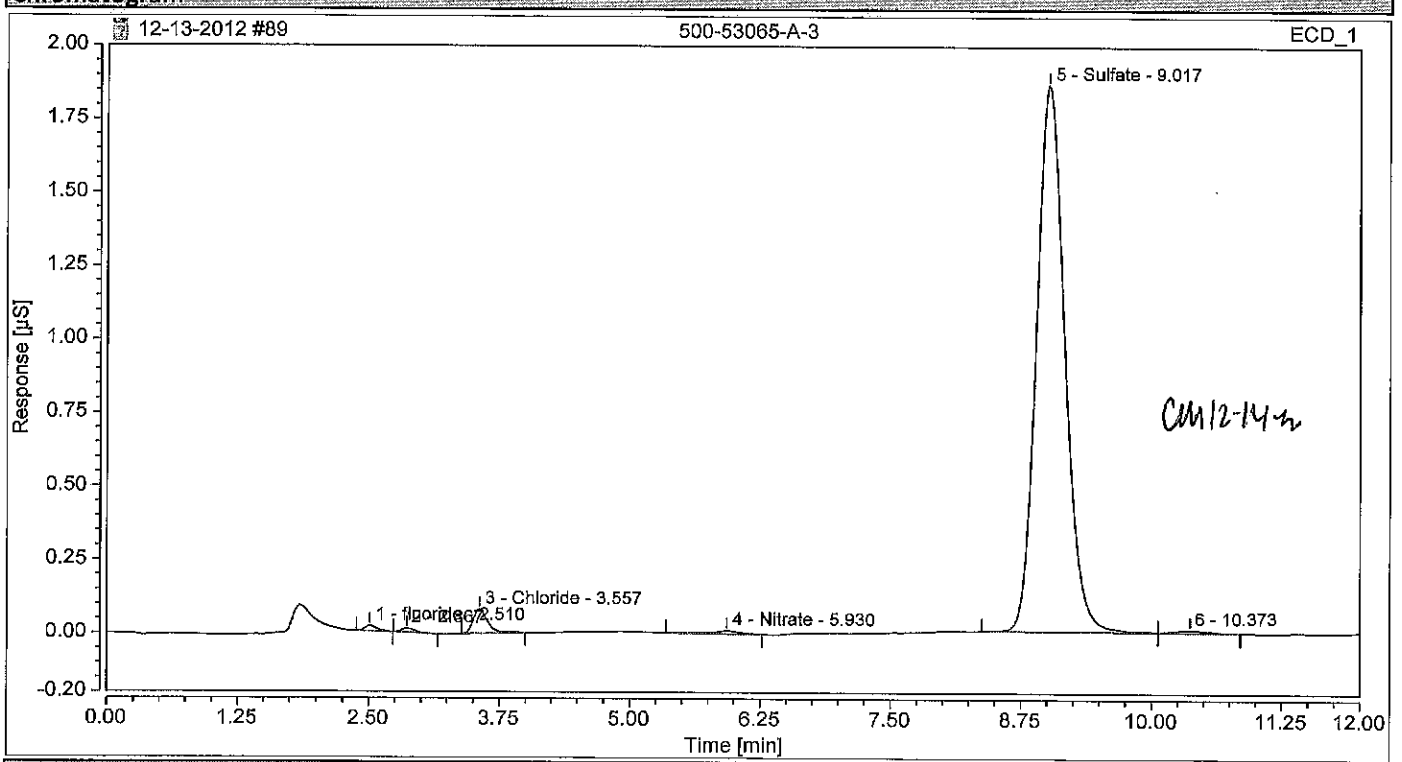
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride m	3.557	0.010	0.031	24.39	26.78	0.3694
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Nitrate m	5.920	0.008	0.017	19.47	14.60	0.1241
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate m	9.020	0.024	0.068	56.14	58.61	1.2153
Total:			**0.042**	**0.116**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53065-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**BA4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 05:08**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

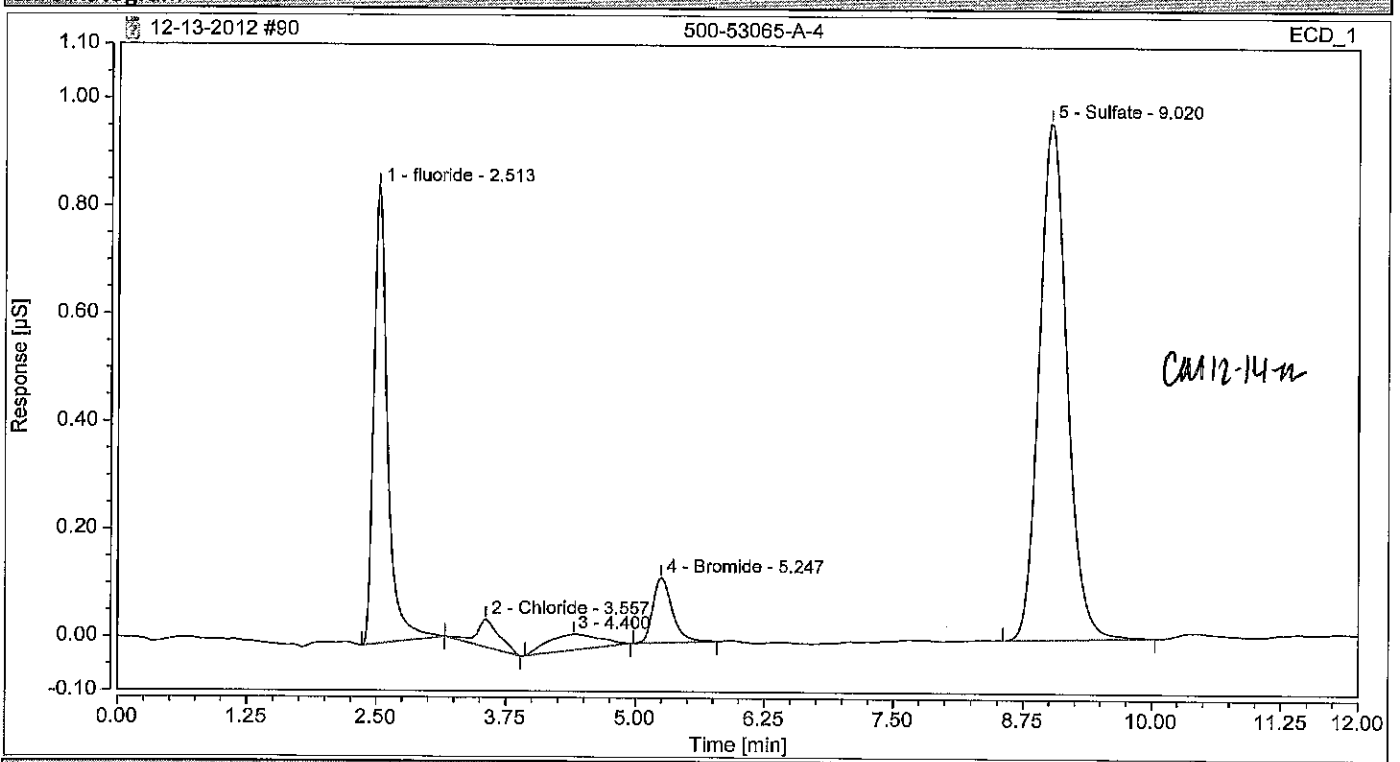
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.003	0.018	0.41	0.92	0.0683
2		2.867	0.002	0.014	0.32	0.69	n.a.
3	Chloride	3.557	0.013	0.082	2.19	4.13	0.4737
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	5.930	0.003	0.010	0.50	0.52	0.0459
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.017	0.583	1.858	96.07	93.31	29.7536
6		10.373	0.003	0.009	0.51	0.43	n.a.
Total:			**0.607**	**1.992**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53065-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**BA5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 05:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

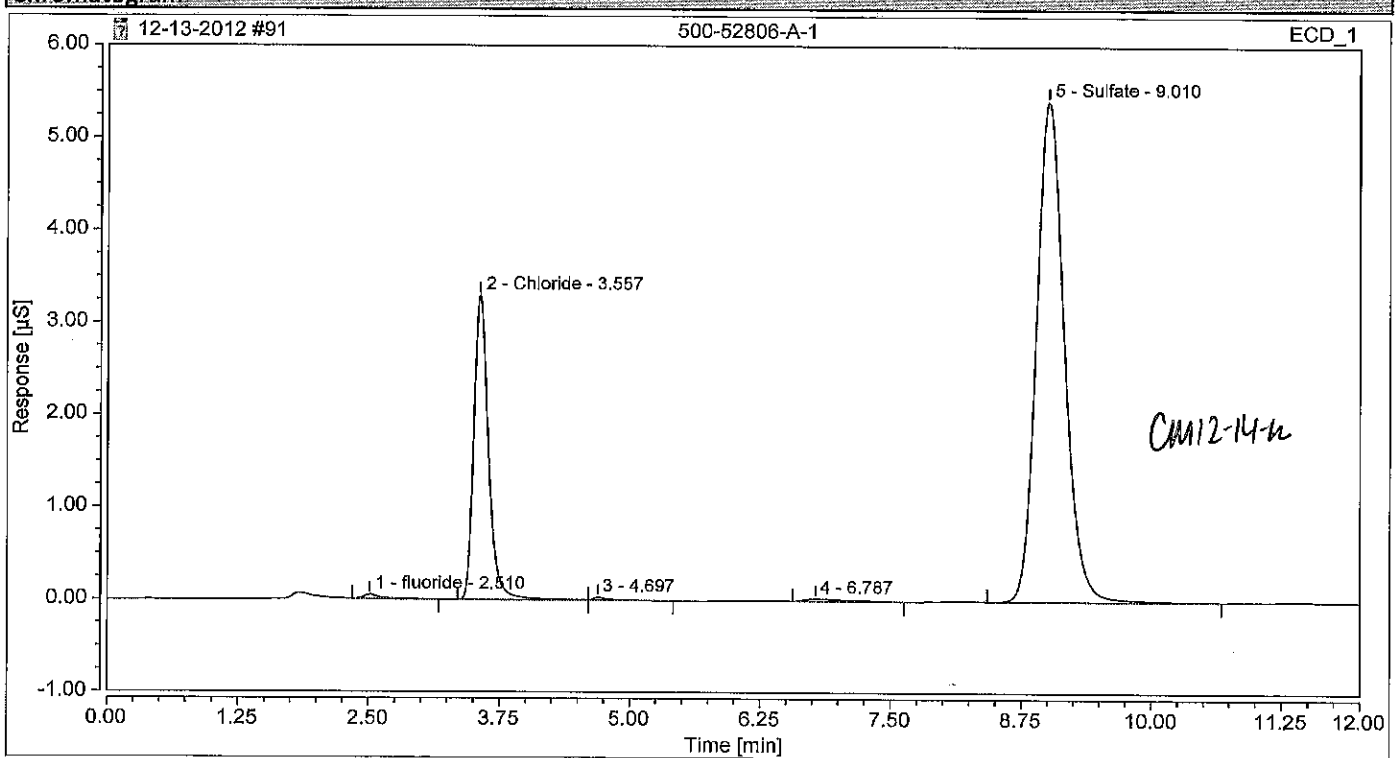
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.131	0.848	26.71	42.24	3.5566
2	Chloride m	3.557	0.013	0.051	2.68	2.55	0.4668
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.400	0.017	0.029	3.42	1.43	n.a.
4	Bromide m	5.247	0.026	0.121	5.40	6.00	2.4230
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.020	0.302	0.959	61.80	47.78	15.4101
Total:			**0.489**	**2.008**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 05:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

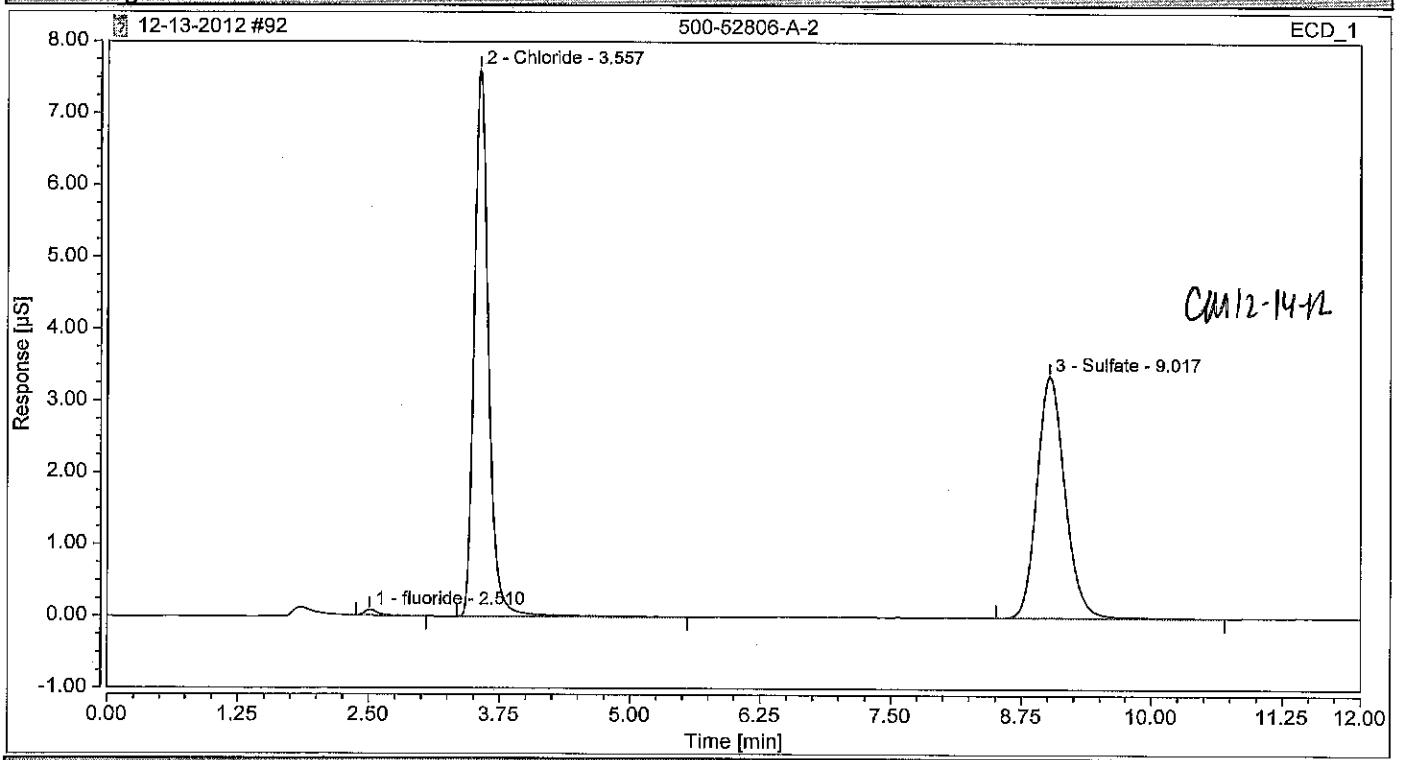
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.008	0.046	0.36	0.52	0.4464
2	Chloride m	3.557	0.533	3.297	23.73	37.37	38.0460
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.697	0.005	0.030	0.23	0.34	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		6.787	0.014	0.029	0.61	0.33	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	9.010	1.687	5.421	75.07	61.45	172.0072
Total:			**2.247**	**8.822**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BA7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 05:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

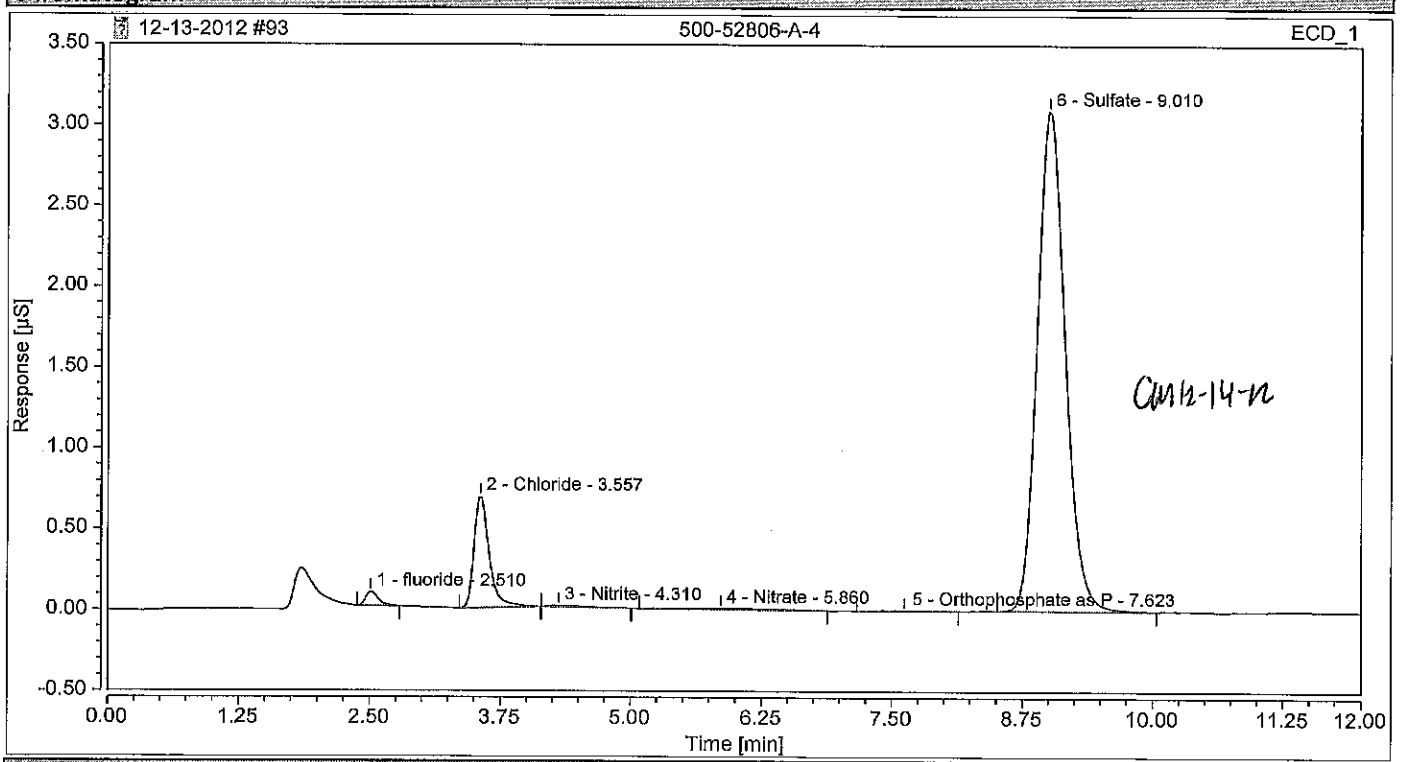
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.012	0.078	0.54	0.71	0.6703
2	Chloride	3.557	1.217	7.618	53.28	68.88	86.8109
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.017	1.055	3.364	46.18	30.42	107.5575
Total:			**2.283**	**11.061**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**BA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 06:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

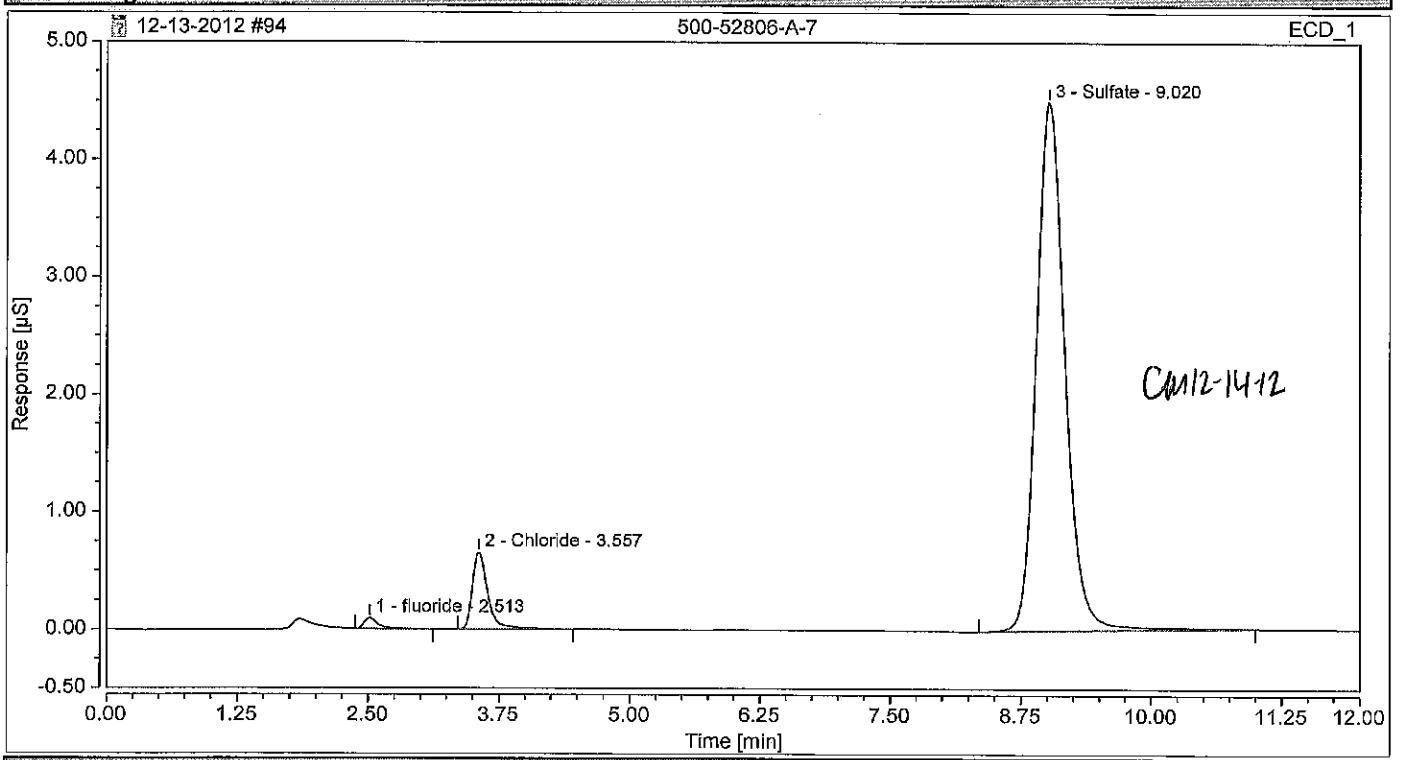
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.012	0.087	1.11	2.23	0.6706
2	Chloride RV	3.557	0.115	0.690	10.42	17.74	8.2224
3	Nitrite m	4.310	0.003	0.009	0.30	0.24	0.1018
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate m	5.860	0.007	0.007	0.61	0.17	0.2042
5	Orthophosphate as P m	7.623	0.002	0.004	0.20	0.11	0.2270
6	Sulfate	9.010	0.966	3.095	87.35	79.51	98.4712
Total:			**1.105**	**3.893**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-7**	*Run Time (min):*	**12.00**
Vial Number:	**BB1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 06:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

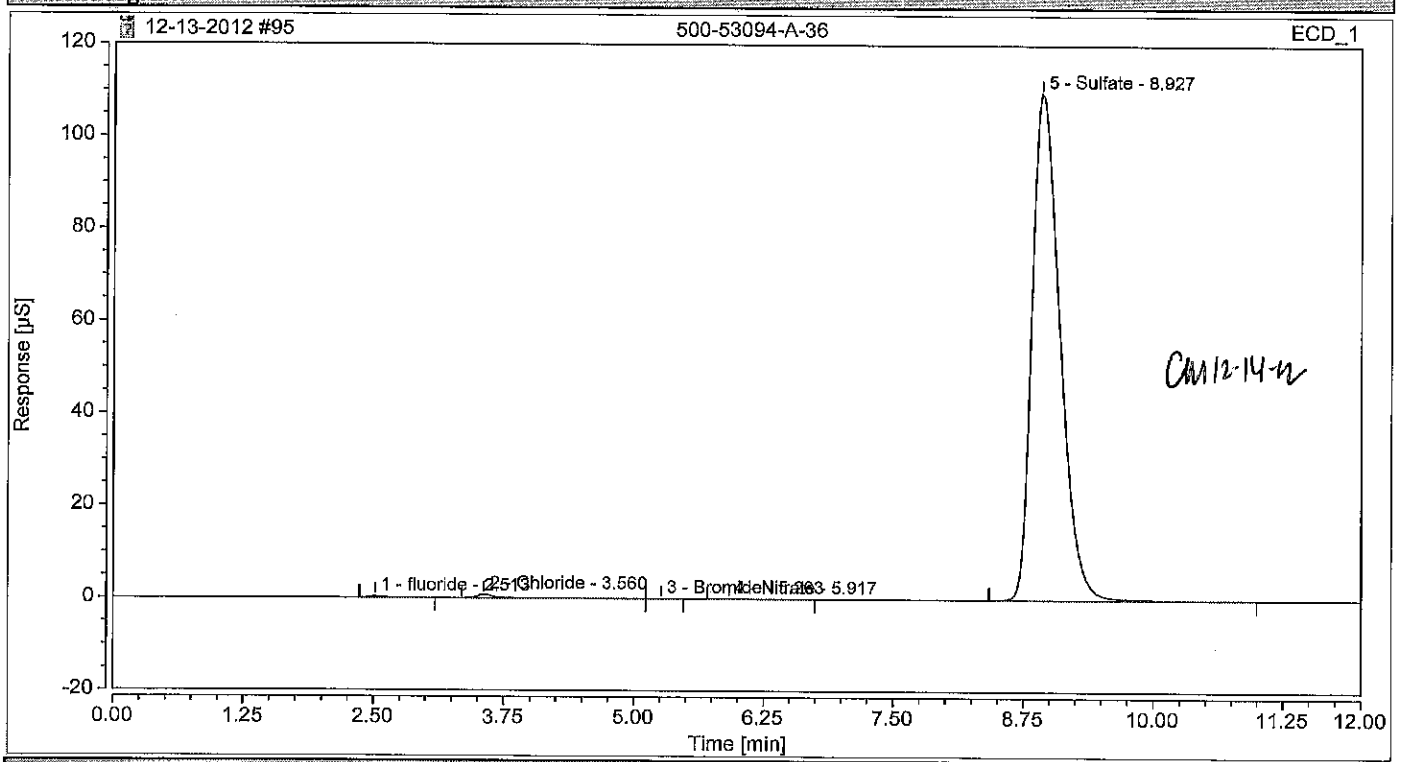
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.015	0.092	0.95	1.75	0.8060
2	Chloride RE	3.557	0.111	0.656	7.13	12.50	7.9225
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.020	1.431	4.497	91.92	85.74	145.9260
Total:			**1.557**	**5.245**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53094-A-36**	*Run Time (min):*	**12.00**
Vial Number:	**BB2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 06:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

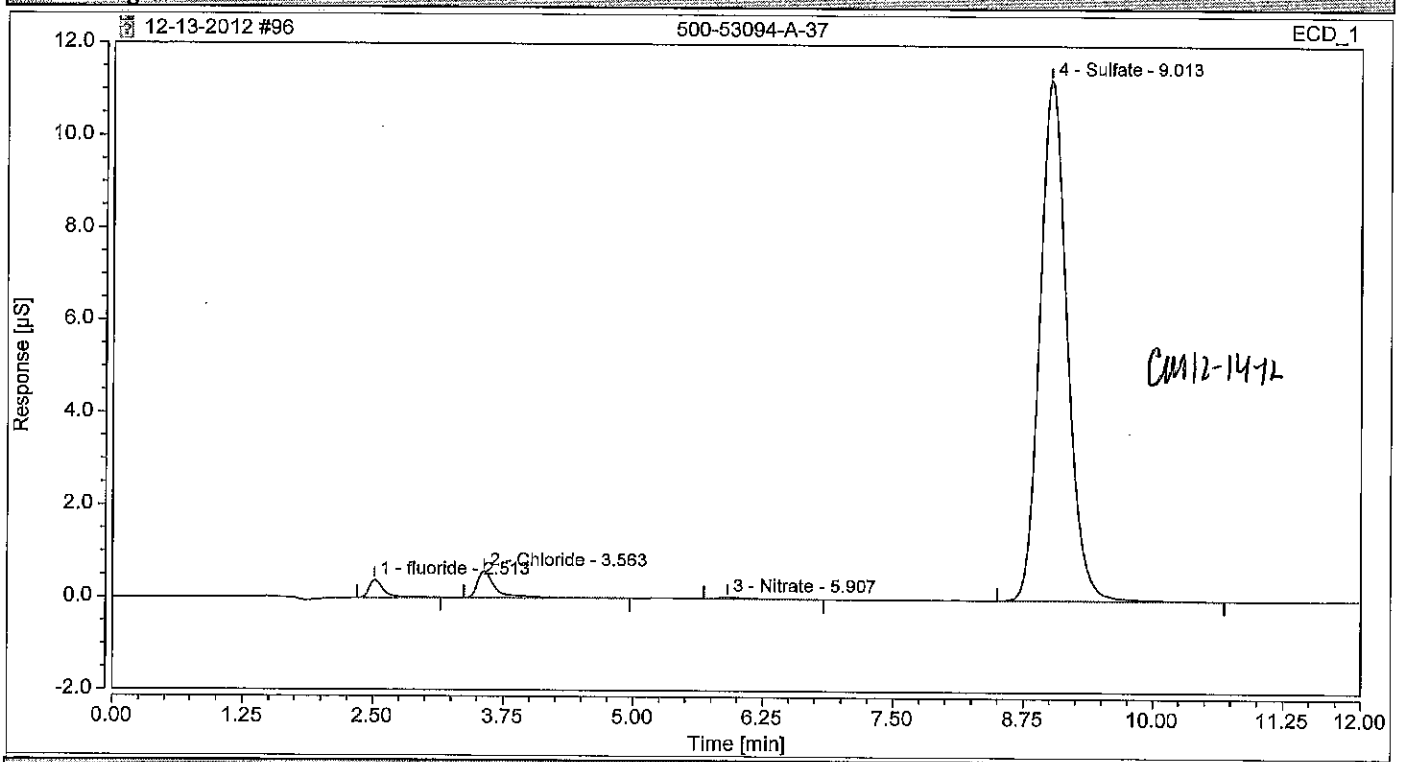
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.048	0.304	0.14	0.27	1.3092
2	Chloride	3.560	0.138	0.756	0.40	0.68	4.9116
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide	5.263	0.001	0.008	0.00	0.01	0.1229
4	Nitrate	5.917	0.010	0.034	0.03	0.03	0.1444
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate	8.927	34.340	109.716	99.43	99.01	1751.1537
Total:			**34.537**	**110.818**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53094-A-37**	*Run Time (min):*	**12.00**
Vial Number:	**BB3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 06:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

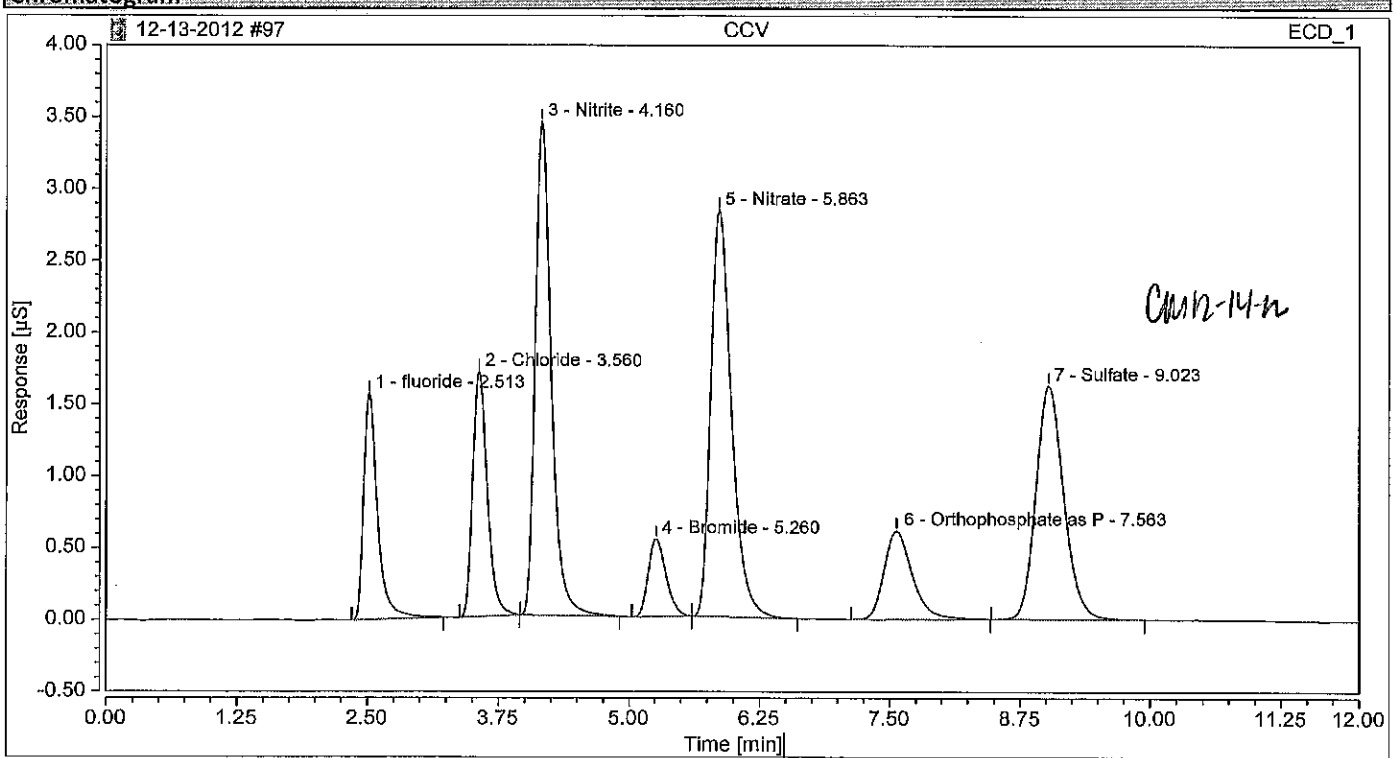
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.061	0.386	1.68	3.15	1.6534
2	Chloride m	3.563	0.118	0.570	3.25	4.65	4.1948
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.907	0.010	0.031	0.28	0.26	0.1504
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate m	9.013	3.427	11.264	94.79	91.94	174.7702
Total:			**3.616**	**12.252**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 06:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

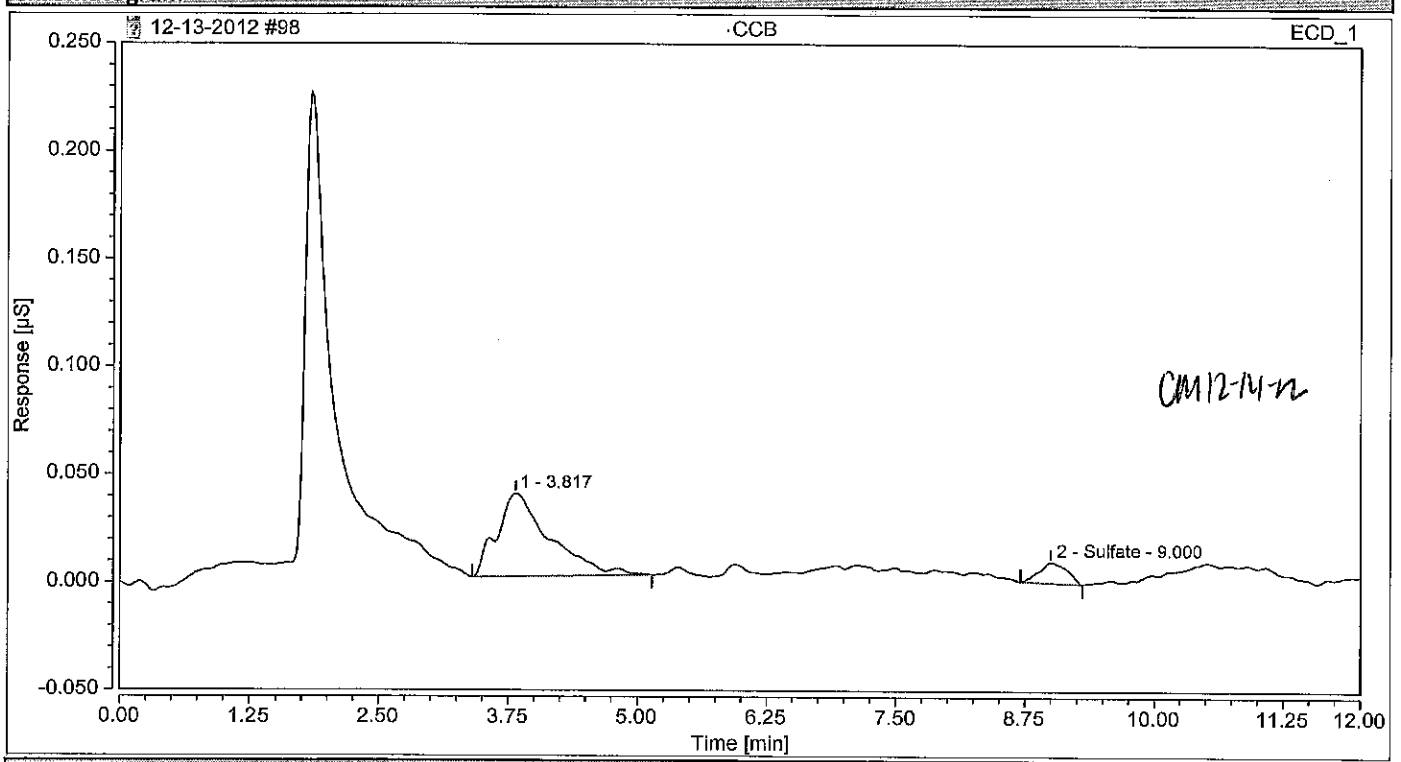
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.240	1.574	9.30	12.77	0.6535
2	Chloride	3.560	0.271	1.705	10.52	13.83	0.9680
3	Nitrite	4.160	0.609	3.434	23.61	27.87	0.9501
4	Bromide	5.260	0.108	0.541	4.18	4.39	0.9879
5	Nitrate	5.863	0.649	2.827	25.18	22.94	0.9752
6	Orthophosphate as P	7.563	0.193	0.616	7.49	5.00	0.9700
7	Sulfate	9.023	0.508	1.625	19.71	13.19	2.5919
Total:			**2.579**	**12.321**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 07:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

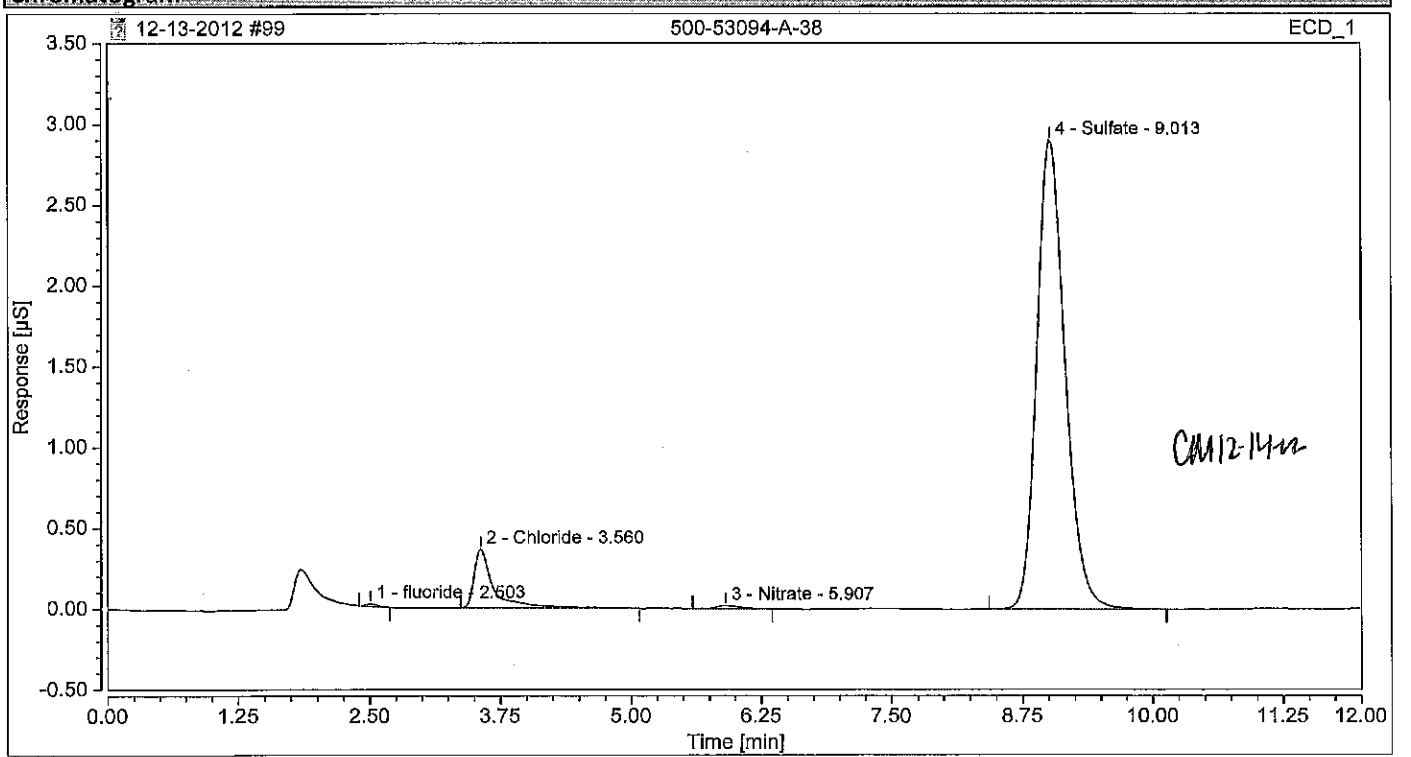
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.817	0.023	0.038	88.13	80.08	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	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.
2	Sulfate	9.000	0.003	0.010	11.87	19.92	0.0157
Total:			**0.026**	**0.048**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53094-A-38**	*Run Time (min):*	**12.00**
Vial Number:	**BB4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 07:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

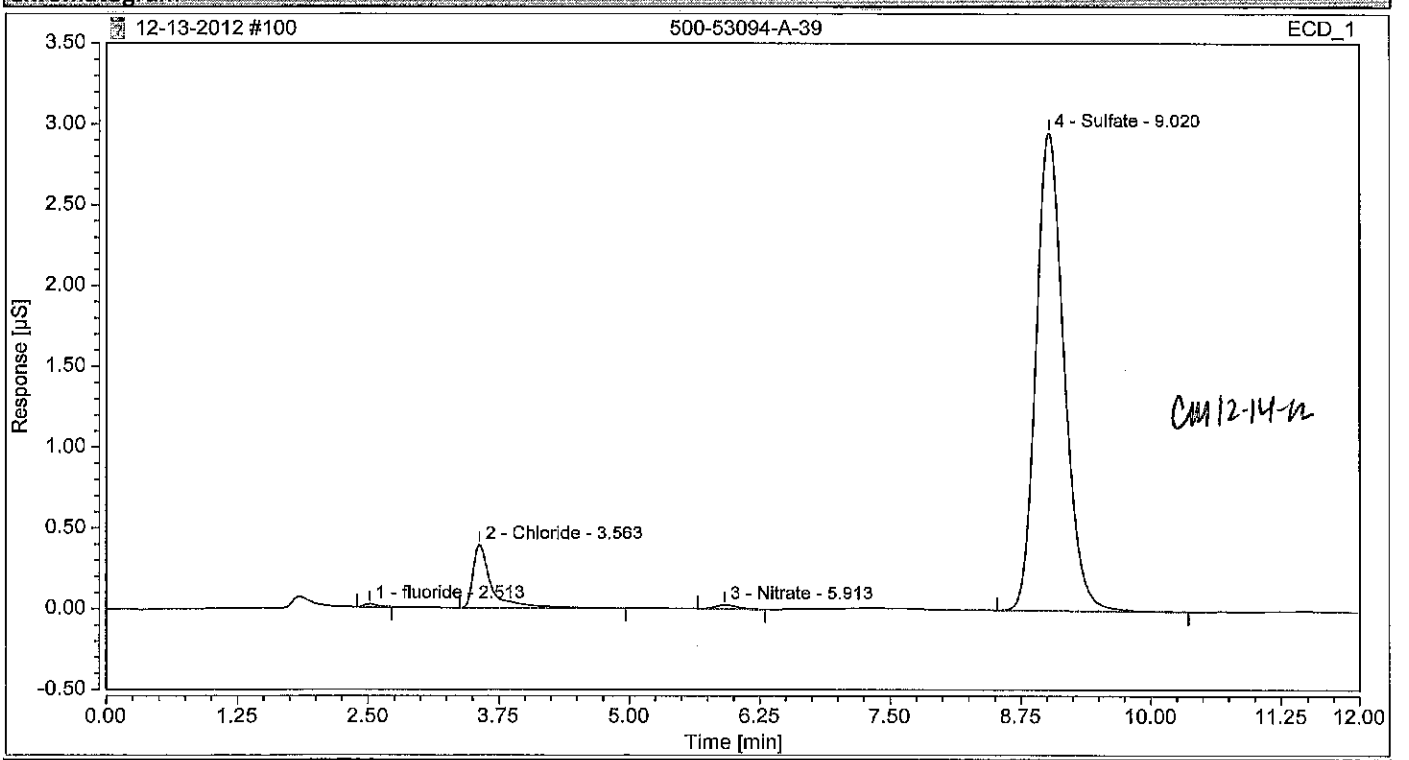
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.503	0.002	0.015	0.19	0.46	0.0520
2	Chloride	3.560	0.080	0.363	8.02	11.00	2.8542
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.907	0.005	0.020	0.53	0.62	0.0792
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.013	0.910	2.902	91.26	87.91	46.3938
Total:			**0.997**	**3.301**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53094-A-39**	*Run Time (min):*	**12.00**
Vial Number:	**BB5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 07:34**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

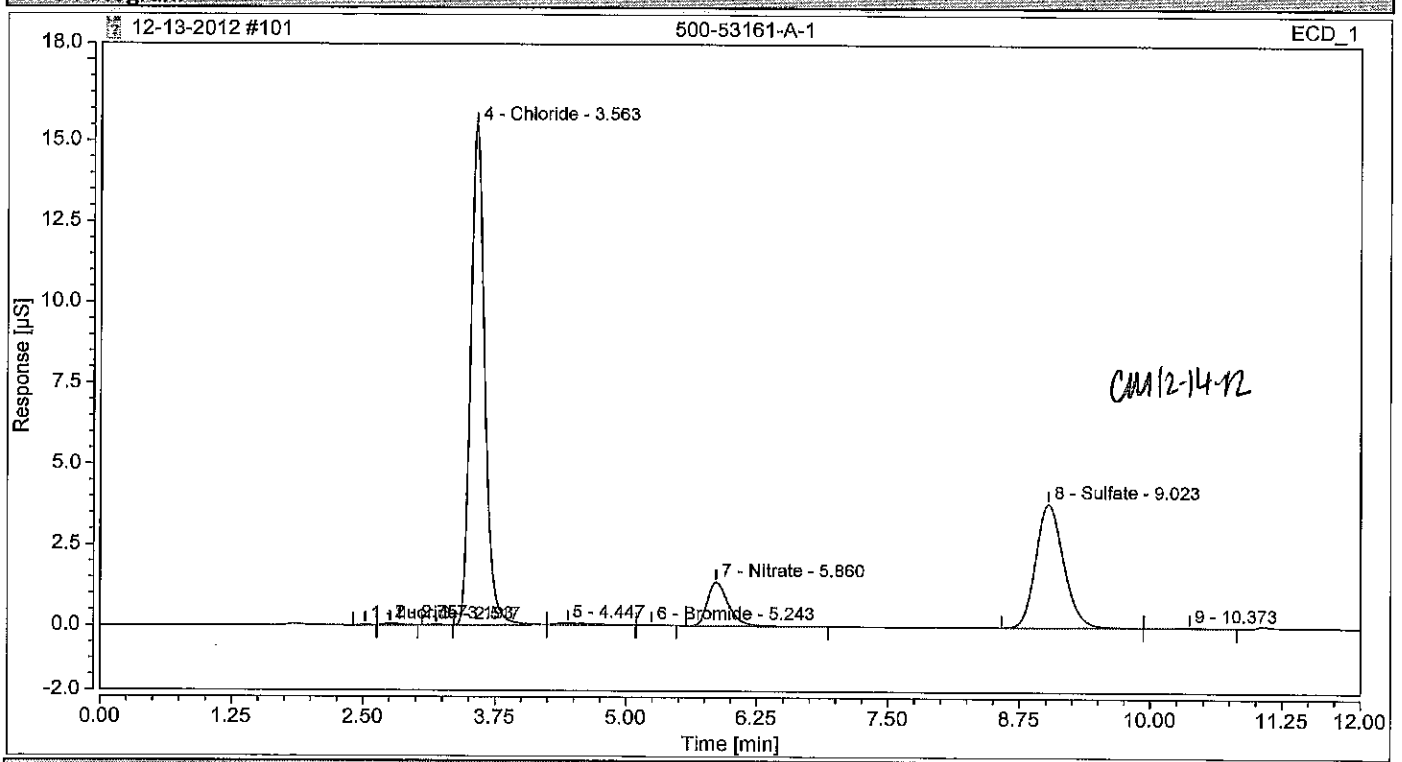
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.003	0.019	0.26	0.56	0.0705
2	Chloride	3.563	0.081	0.392	8.00	11.55	2.8954
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate	5.913	0.006	0.025	0.59	0.74	0.0894
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate	9.020	0.925	2.960	91.16	87.14	47.1634
Total:			**1.015**	**3.397**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BC1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 07:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

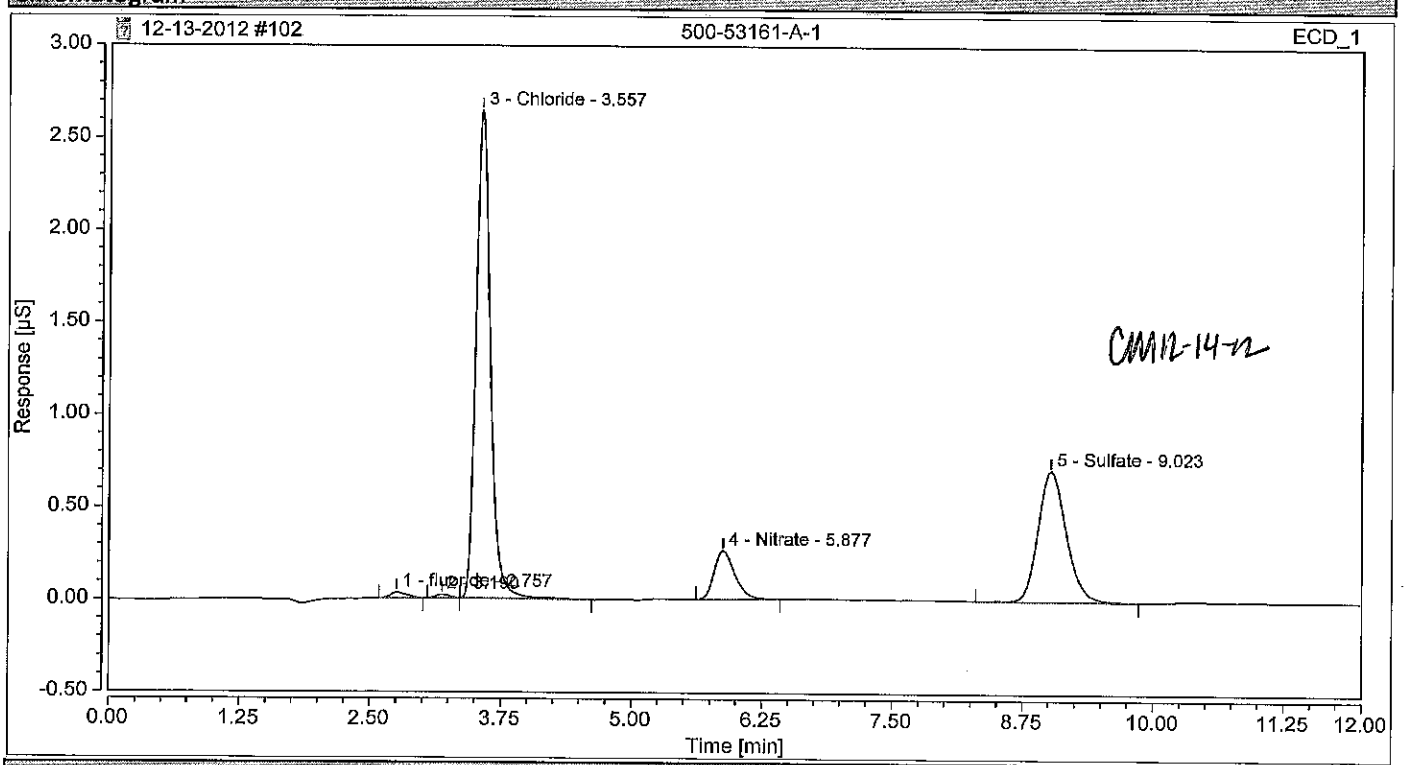
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.002	0.014	0.04	0.07	0.0853
2		2.757	0.009	0.052	0.22	0.25	n.a.
3		3.193	0.003	0.019	0.07	0.09	n.a.
4	Chloride OK	3.563	2.405	15.458	61.04	74.33	171.6048
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		4.447	0.019	0.049	0.49	0.23	n.a.
6	Bromide AV	5.243	0.003	0.016	0.07	0.08	0.5169
7	Nitrate m	5.860	0.315	1.353	8.00	6.51	9.4610
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8	Sulfate m	9.023	1.179	3.820	29.93	18.37	120.2734
9		10.373	0.006	0.017	0.14	0.08	n.a.
Total:			**3.940**	**20.797**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BC2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 08:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

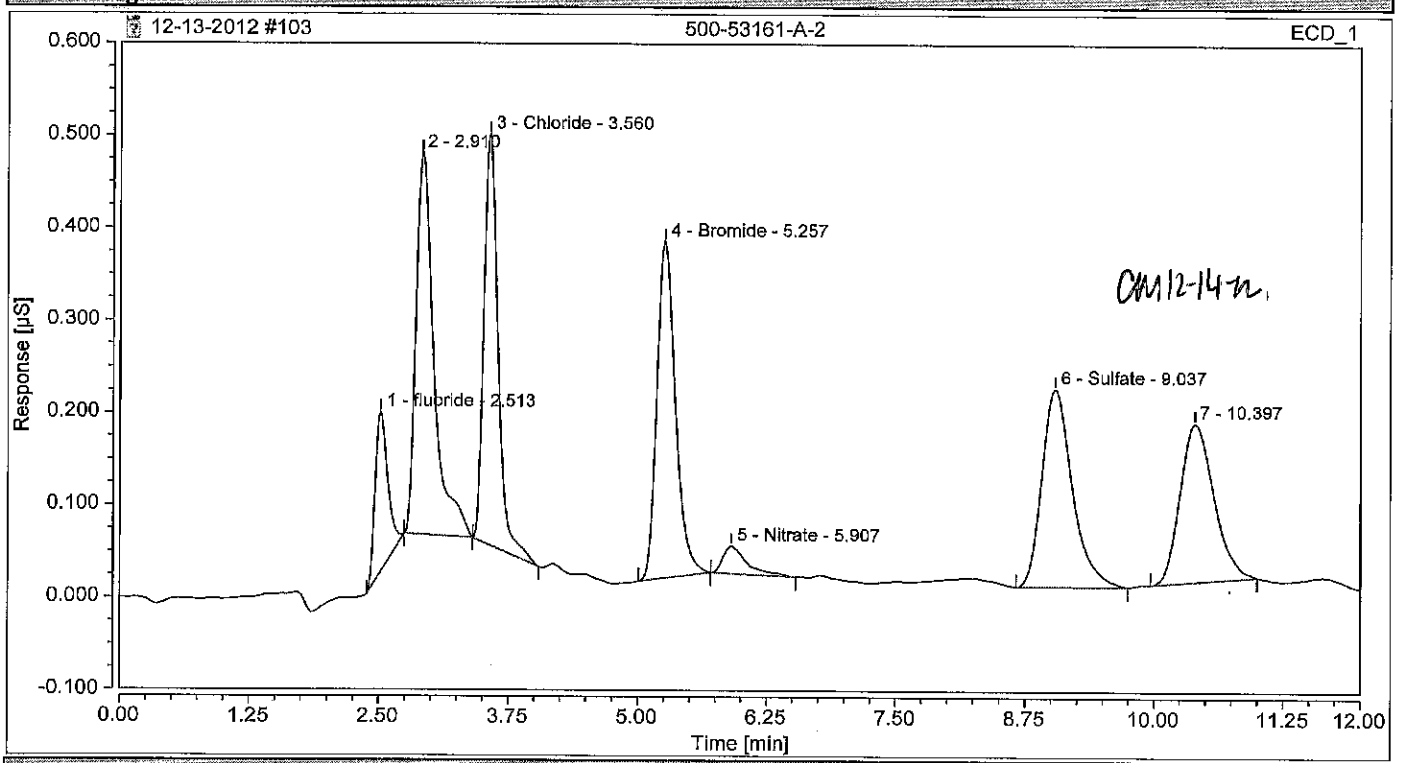
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.757	0.006	0.032	0.80	0.88	1.5372
2		3.190	0.003	0.019	0.40	0.52	n.a.
3	Chloride	3.557	0.416	2.640	58.70	72.09	148.5670
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate m	5.877	0.061	0.263	8.58	7.17	9.1352
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate m	9.023	0.224	0.708	31.53	19.34	114.0644
Total:			**0.709**	**3.662**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BC3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**14/Dec/12 08:14**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

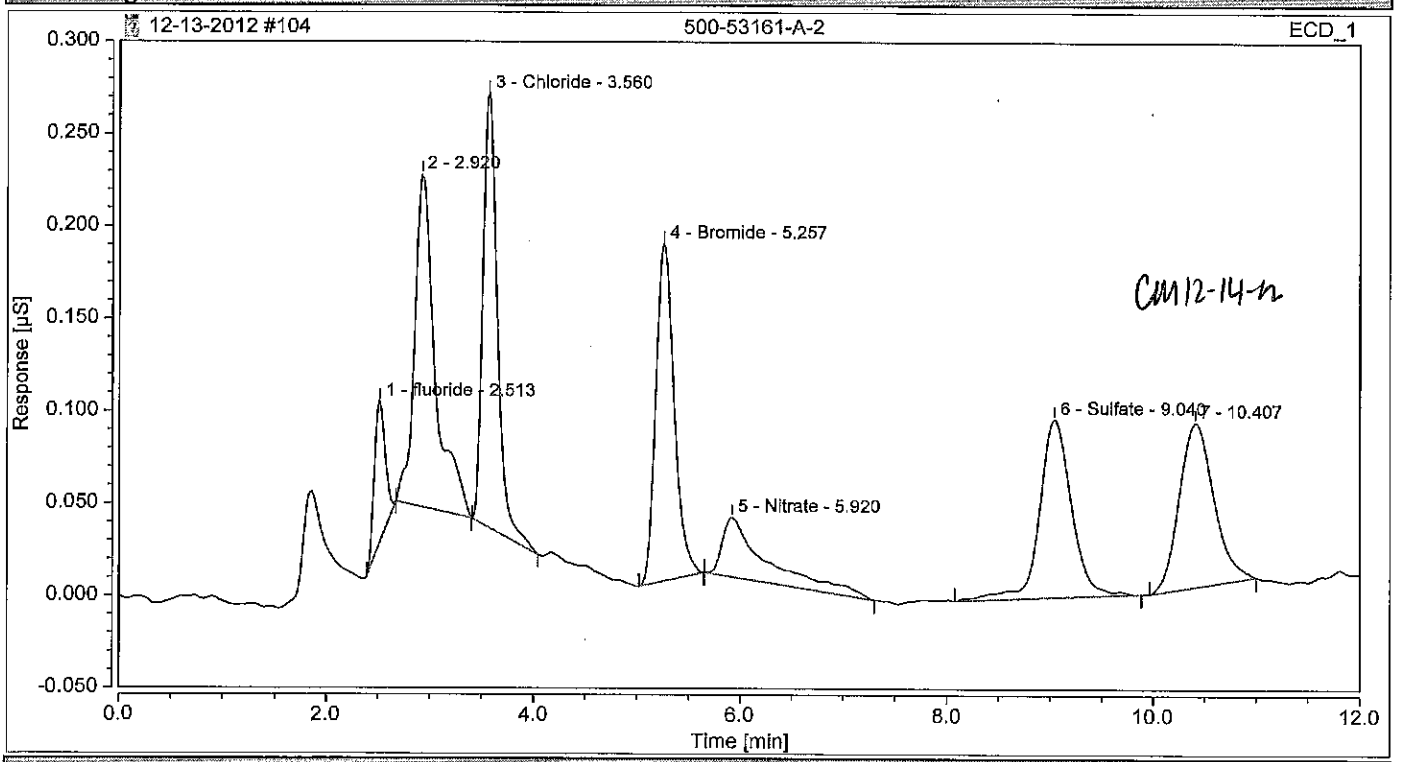
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.024	0.173	5.93	9.56	32.3260
2		2.910	0.083	0.413	20.74	22.82	n.a.
3	Chloride AV	3.560	0.071	0.444	17.66	24.56	126.1533
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide AM	5.257	0.076	0.364	19.05	20.11	349.7716
5	Nitrate m	5.907	0.008	0.030	2.02	1.63	6.0616
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.037	0.073	0.214	18.33	11.83	187.0964
7		10.397	0.065	0.171	16.28	9.48	n.a.
Total:			**0.400**	**1.809**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BC4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**14/Dec/12 08:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

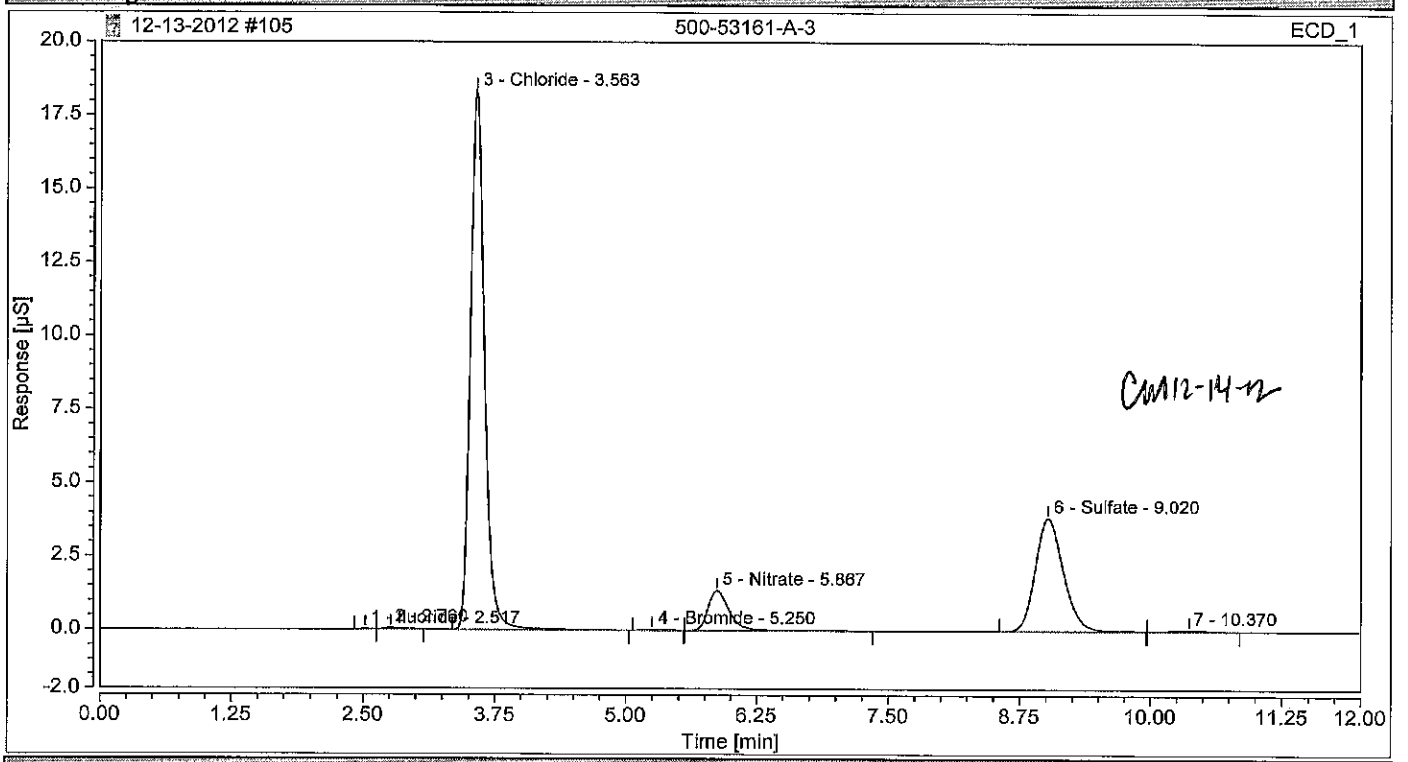
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.009	0.076	4.32	8.58	25.0189
2		2.920	0.042	0.180	19.67	20.21	n.a.
3	Chloride KE	3.560	0.038	0.235	17.85	26.34	135.3389
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide KE	5.257	0.038	0.182	17.73	20.49	345.6696
5	Nitrate m	5.920	0.016	0.032	7.58	3.59	24.1851
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.040	0.035	0.096	16.50	10.81	178.7866
7		10.407	0.035	0.089	16.36	9.98	n.a.
Total:			**0.213**	**0.891**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**BC5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 08:40**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

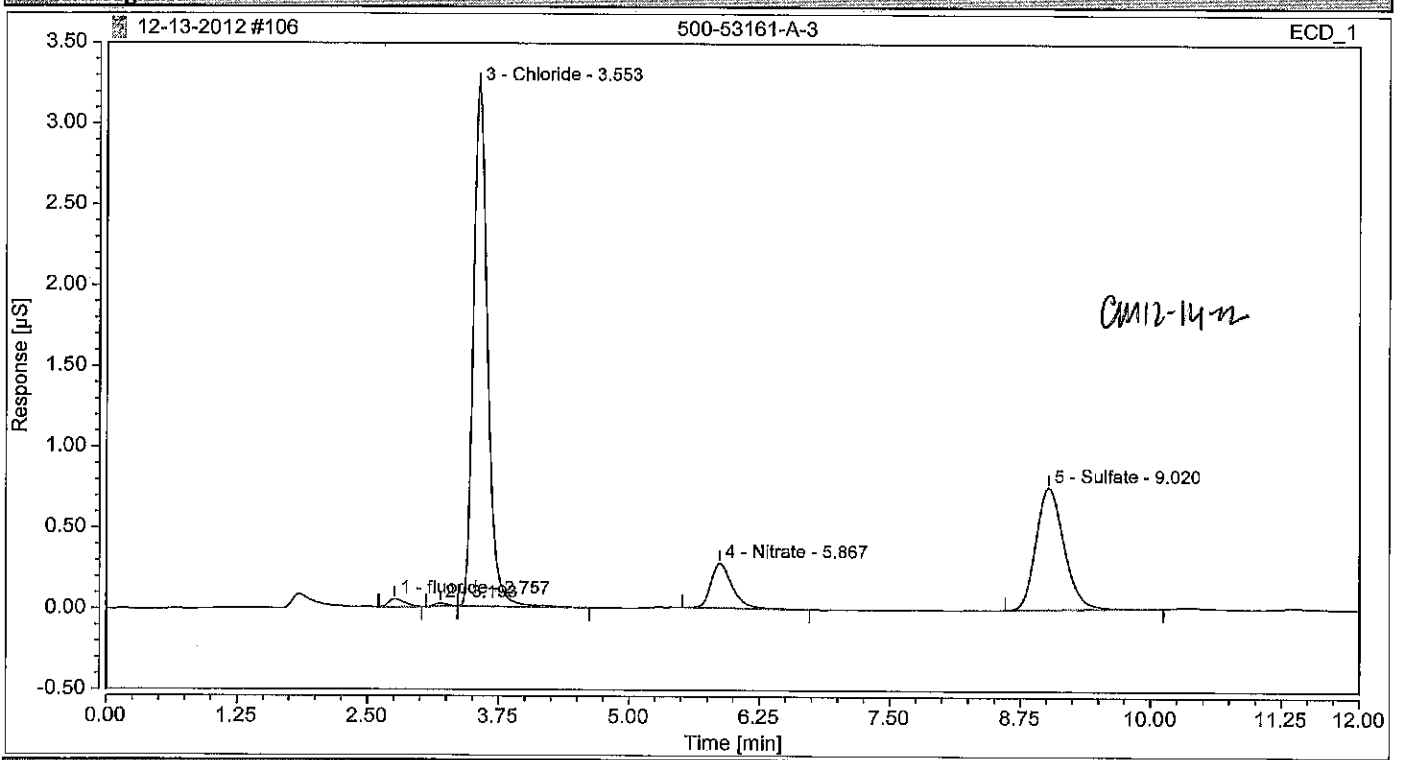
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.002	0.017	0.04	0.07	0.0988
2		2.760	0.009	0.047	0.21	0.20	n.a.
3	Chloride m	3.563	2.859	18.322	64.89	77.43	203.9961
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide m	5.250	0.006	0.033	0.15	0.14	1.1888
5	Nitrate m	5.867	0.324	1.358	7.35	5.74	9.7273
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.020	1.190	3.844	27.01	16.24	121.3531
7		10.370	0.015	0.043	0.35	0.18	n.a.
Total:			**4.406**	**23.663**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53161-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**BC6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**100.0000**
Injection Date/Time:	**14/Dec/12 08:54**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

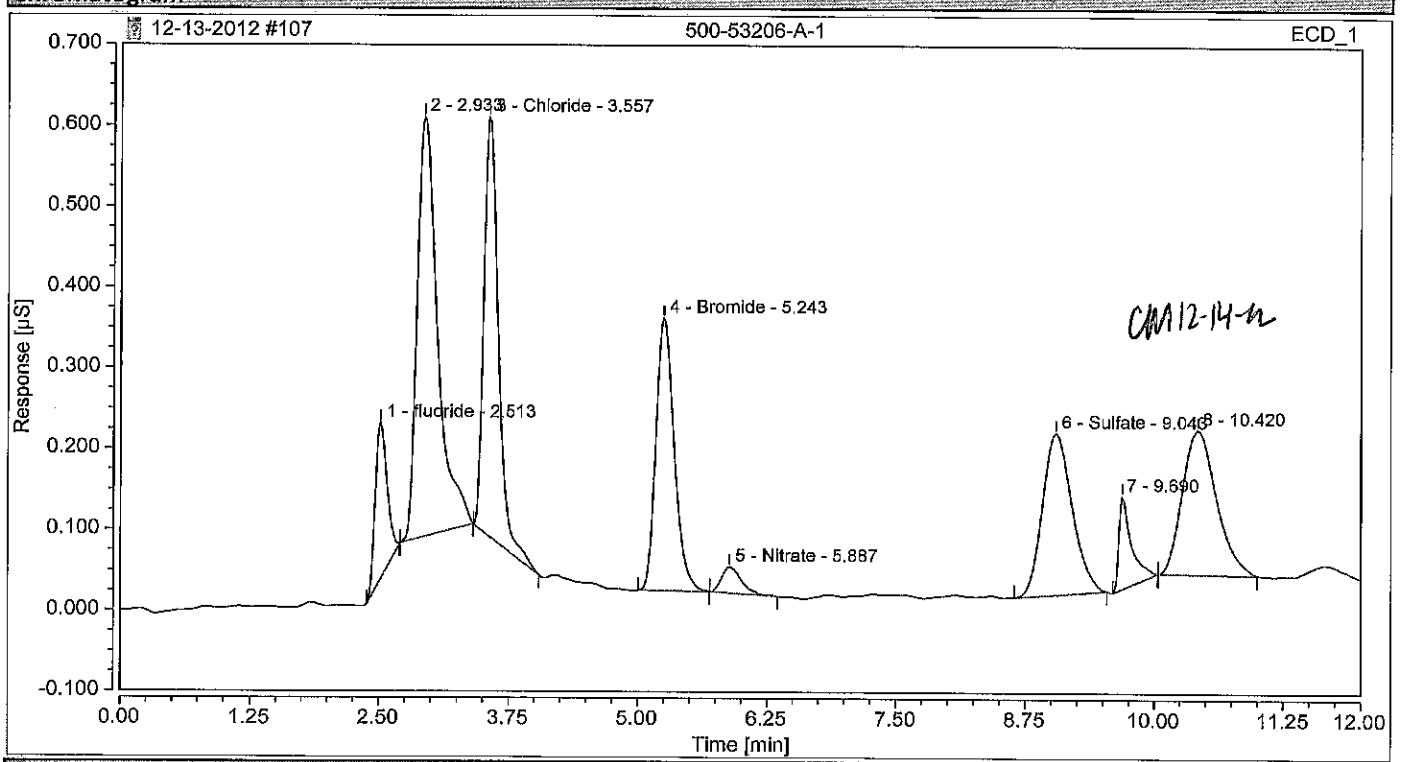
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.757	0.009	0.049	1.05	1.14	2.3676
2		3.193	0.003	0.019	0.35	0.45	n.a.
3	Chloride	3.553	0.511	3.220	61.81	74.55	182.4187
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate m	5.867	0.066	0.276	8.02	6.39	9.9665
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate m	9.020	0.238	0.755	28.76	17.47	121.3145
Total:			**0.827**	**4.320**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BC7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**14/Dec/12 09:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

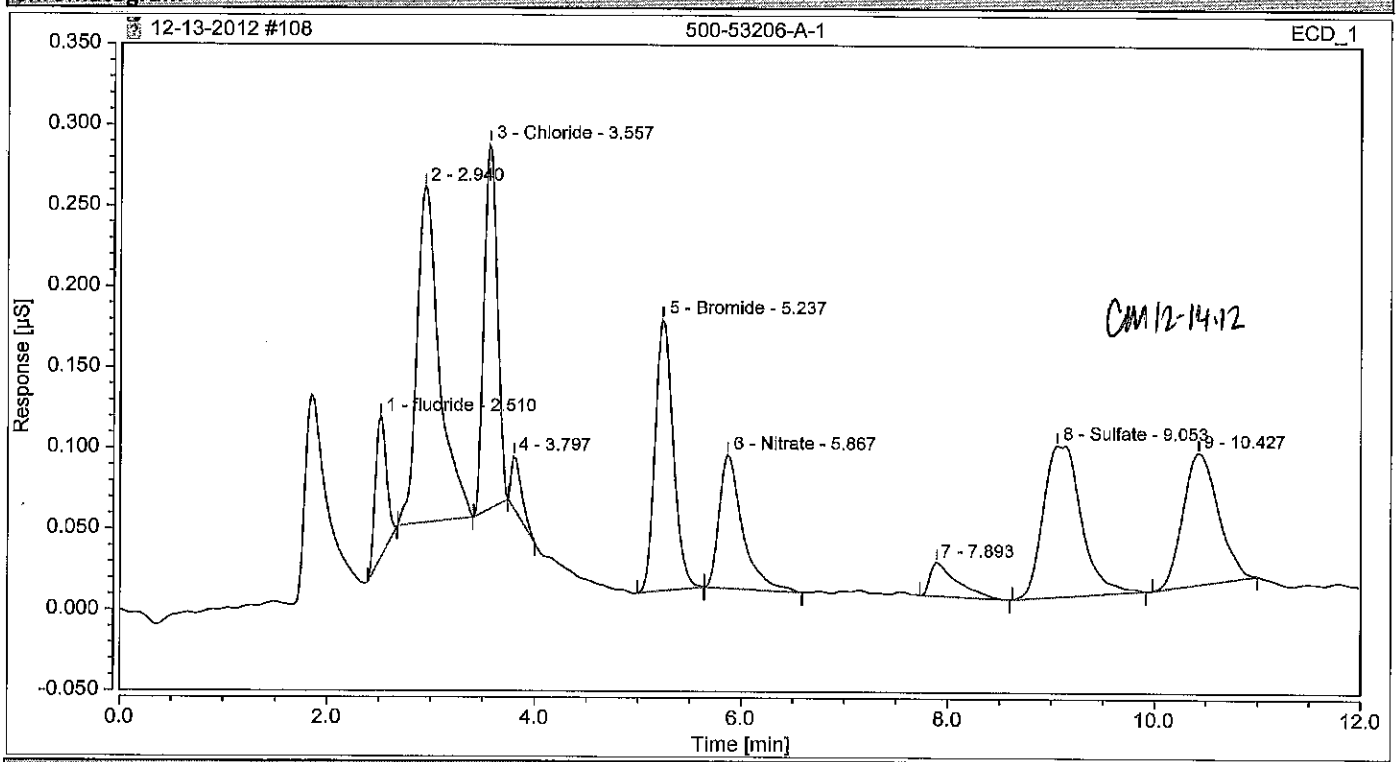
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.025	0.193	5.55	9.21	34.4349
2		2.933	0.118	0.519	25.89	24.83	n.a.
3	Chloride AV	3.557	0.084	0.518	18.53	24.78	150.6471
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide AV	5.243	0.069	0.337	15.20	16.11	317.5368
5	Nitrate m	5.887	0.007	0.032	1.57	1.53	5.3746
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.043	0.066	0.200	14.59	9.55	169.4678
7		9.690	0.016	0.114	3.59	5.47	n.a.
8		10.420	0.069	0.178	15.08	8.52	n.a.
Total:			**0.456**	**2.091**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-1**	*Run Time (min):*	**12.00**
Vial Number:	**BC8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1000.0000**
Injection Date/Time:	**14/Dec/12 09:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

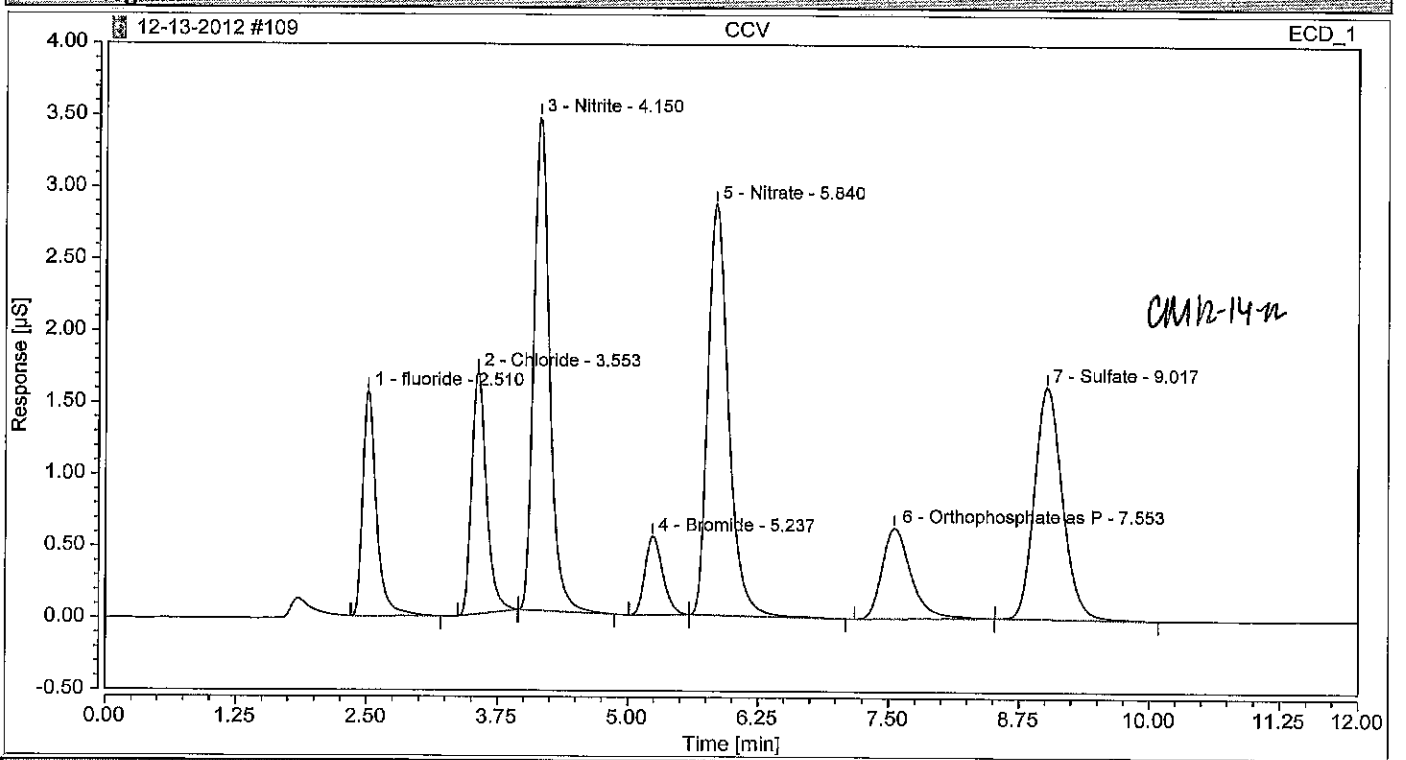
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.510	0.011	0.087	4.56	8.73	29.0289
2		2.940	0.052	0.208	22.15	20.78	n.a.
3	Chloride KE	3.557	0.033	0.226	14.01	22.58	116.8414
4		3.797	0.004	0.033	1.65	3.29	n.a.
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Bromide KE	5.237	0.034	0.168	14.67	16.78	314.4609
6	Nitrate m	5.867	0.022	0.082	9.28	8.25	32.5611
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7		7.893	0.006	0.021	2.68	2.07	n.a.
8	Sulfate m	9.053	0.040	0.094	17.22	9.38	205.1880
9		10.427	0.032	0.081	13.78	8.14	n.a.
Total:			**0.234**	**1.000**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA7**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 09:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

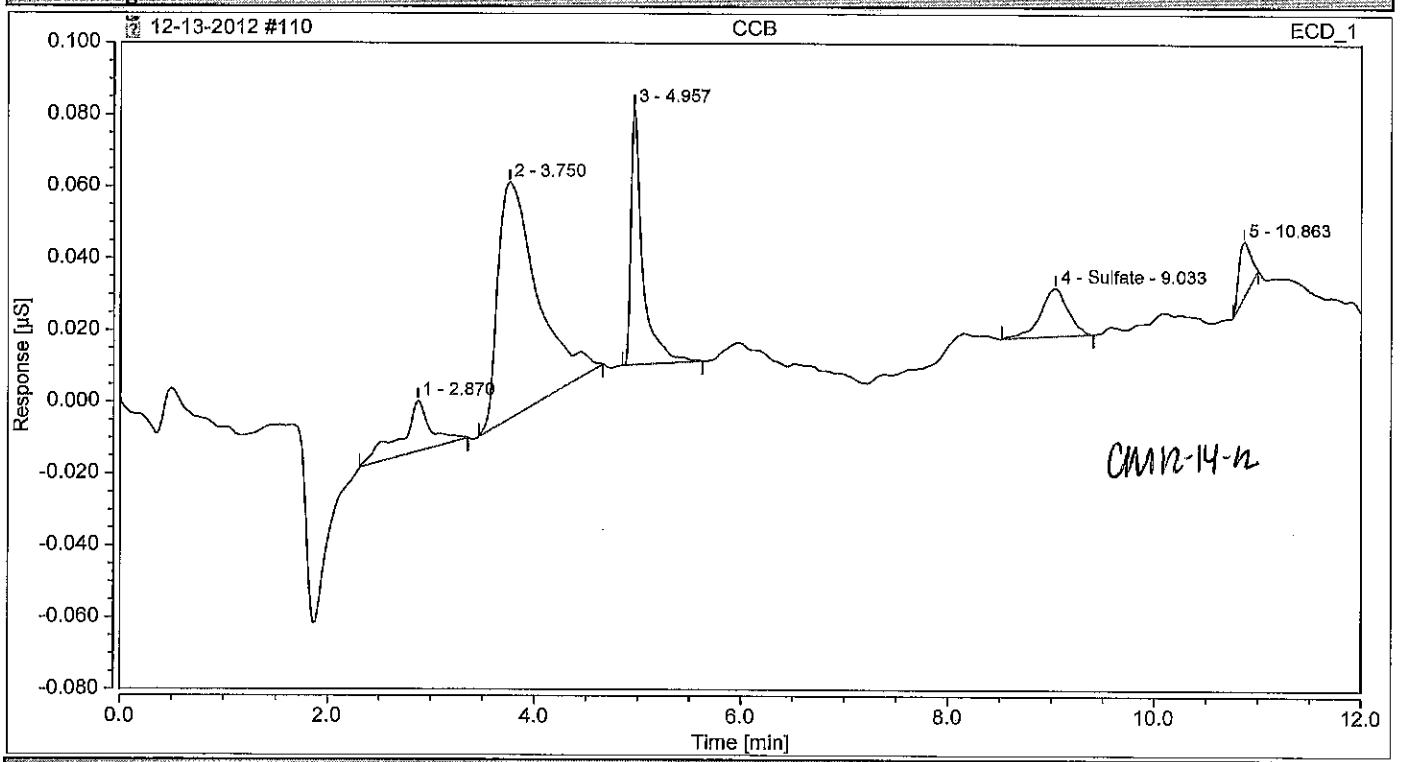
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.238	1.567	9.17	12.70	0.6494
2	Chloride	3.553	0.276	1.686	10.61	13.66	0.9847
3	Nitrite	4.150	0.606	3.433	23.30	27.82	0.9456
4	Bromide	5.237	0.109	0.546	4.18	4.42	0.9966
5	Nitrate	5.840	0.663	2.862	25.49	23.19	0.9955
6	Orthophosphate as P	7.553	0.203	0.631	7.79	5.12	1.0175
7	Sulfate	9.017	0.506	1.617	19.46	13.10	2.5810
Total:			**2.601**	**12.342**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 09:47**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

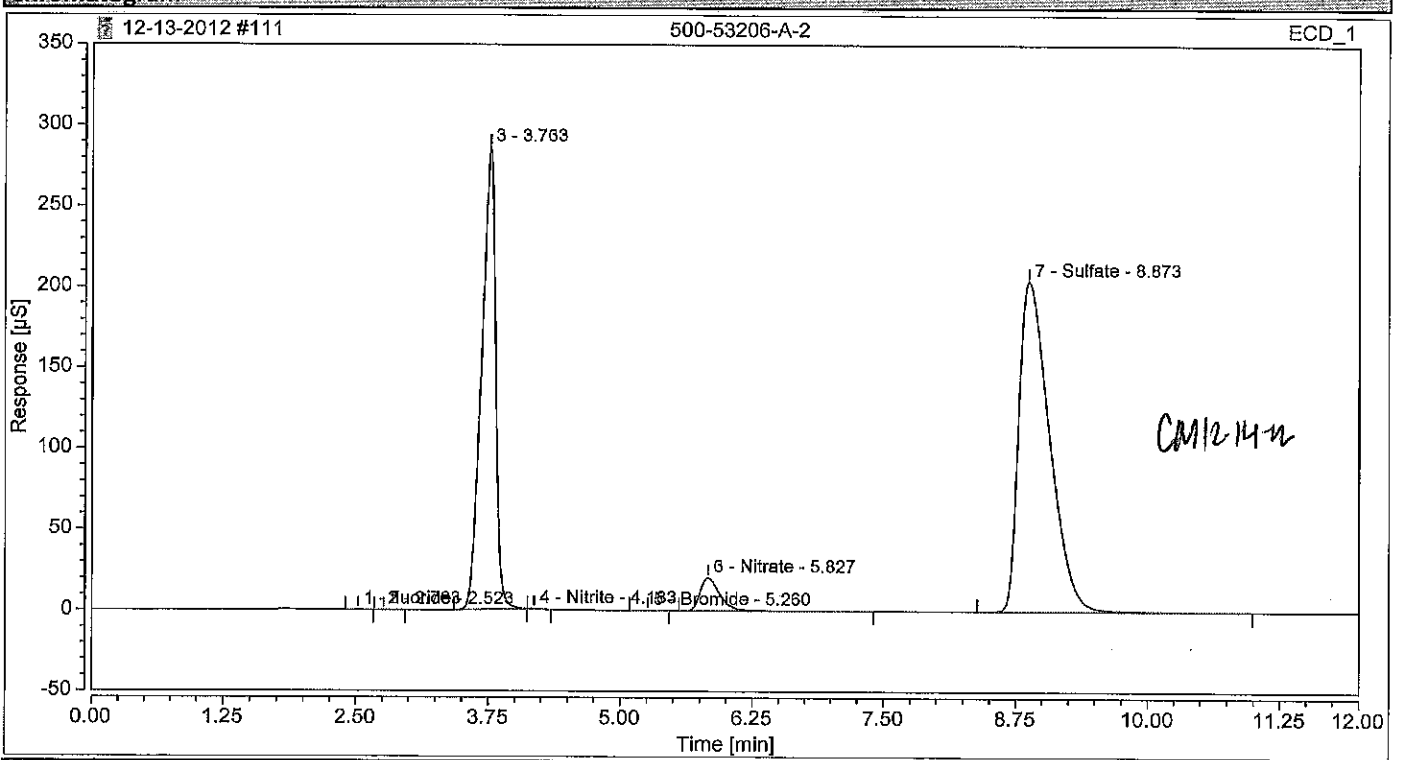
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.870	0.005	0.014	9.61	7.81	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		3.750	0.029	0.066	58.99	36.60	n.a.
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		4.957	0.009	0.072	18.92	39.76	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	9.033	0.004	0.013	8.45	7.41	0.0212
5		10.863	0.002	0.015	4.03	8.41	n.a.
Total:			**0.049**	**0.180**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BD1**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 10:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

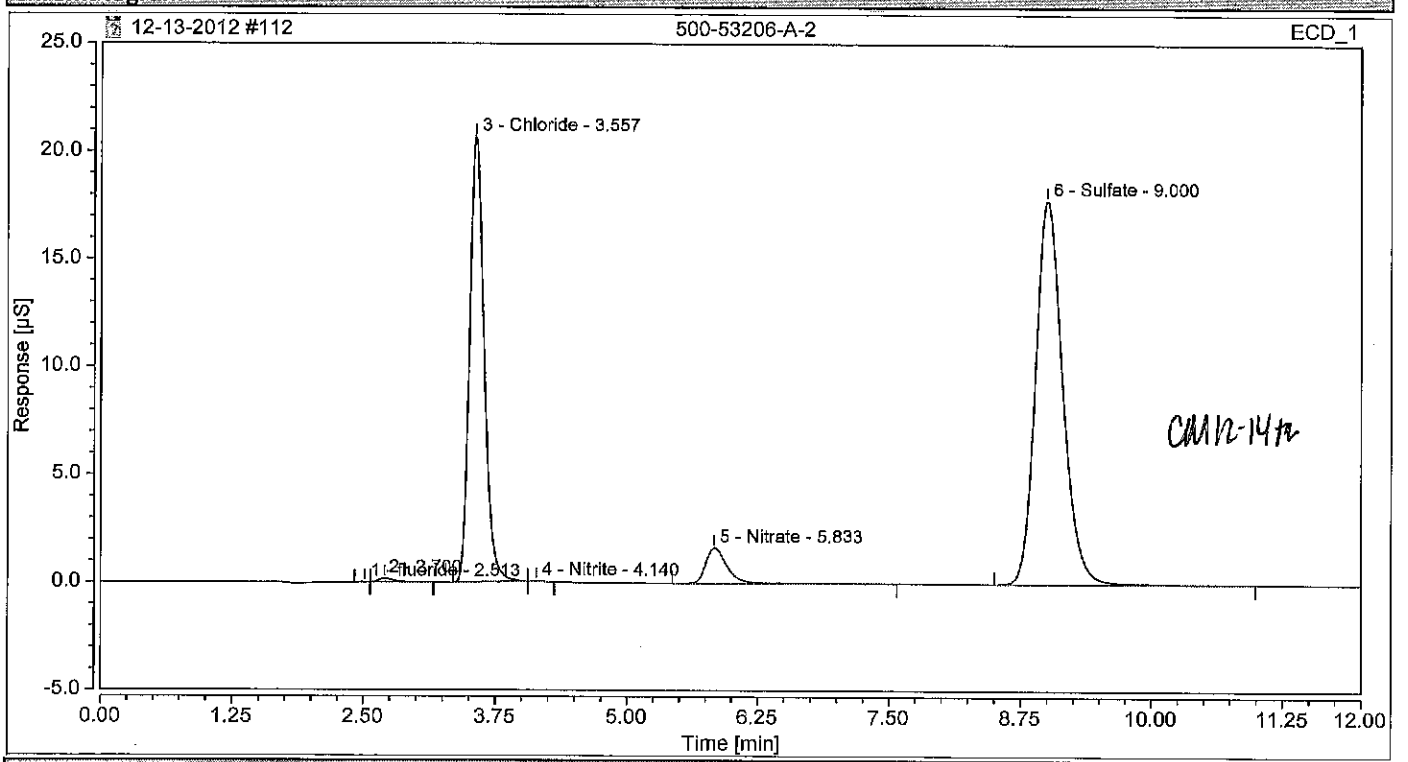
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.523	0.018	0.138	0.02	0.03	0.0492
2		2.763	0.005	0.038	0.00	0.01	n.a.
n.a.	Chloride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3		3.763	43.613	286.059	37.13	55.95	n.a.
4	Nitrite m	4.183	0.029	0.250	0.02	0.05	0.0454
5	Bromide	5.260	0.013	0.077	0.01	0.02	0.1206
6	Nitrate m	5.827	4.466	20.503	3.80	4.01	6.7063
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7	Sulfate m	8.873	69.313	204.242	59.01	39.95	353.4573
Total:			**117.457**	**511.308**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BD2**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 10:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

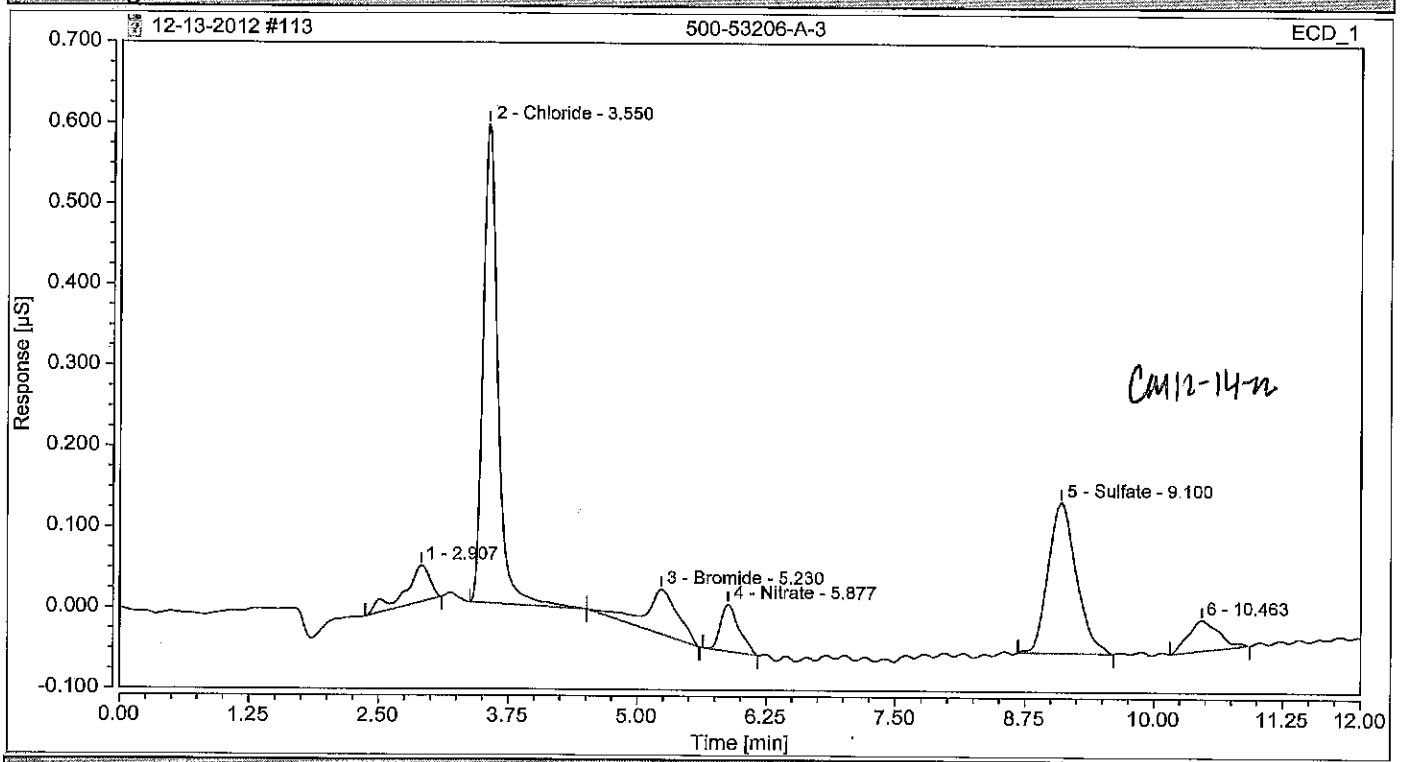
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.513	0.001	0.013	0.01	0.03	0.0303
2		2.700	0.028	0.171	0.31	0.42	n.a.
3	Chloride m	3.557	3.289	20.675	36.18	51.25	117.3581
4	Nitrite m	4.140	0.003	0.026	0.04	0.06	0.0524
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate m	5.833	0.404	1.655	4.44	4.10	6.0641
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.000	5.364	17.798	59.01	44.12	273.5503
Total:			**9.090**	**40.338**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-3**	*Run Time (min):*	**12.00**
Vial Number:	**BD3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**500.0000**
Injection Date/Time:	**14/Dec/12 10:27**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

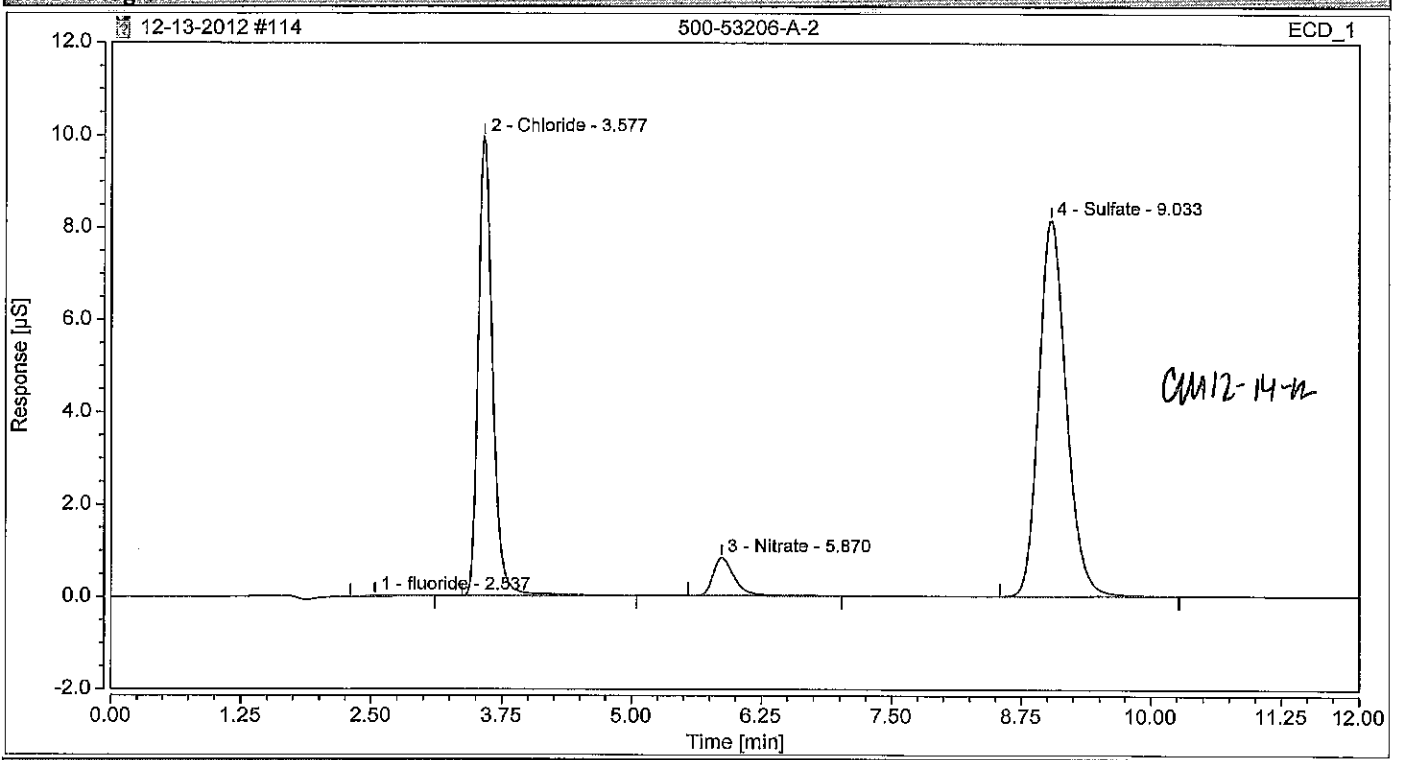
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
n.a.	fluoride m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		2.907	0.013	0.045	5.90	4.61	n.a.
2	Chloride AV	3.550	0.096	0.592	45.13	60.75	171.8869
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Bromide AV	5.230	0.020	0.055	9.48	5.68	92.8035
4	Nitrate m	5.877	0.012	0.058	5.67	5.97	9.0919
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Sulfate m	9.100	0.059	0.186	27.72	19.12	150.8831
6		10.463	0.013	0.038	6.11	3.87	n.a.
Total:			**0.214**	**0.974**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-2**	*Run Time (min):*	**12.00**
Vial Number:	**BE3**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 10:40**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

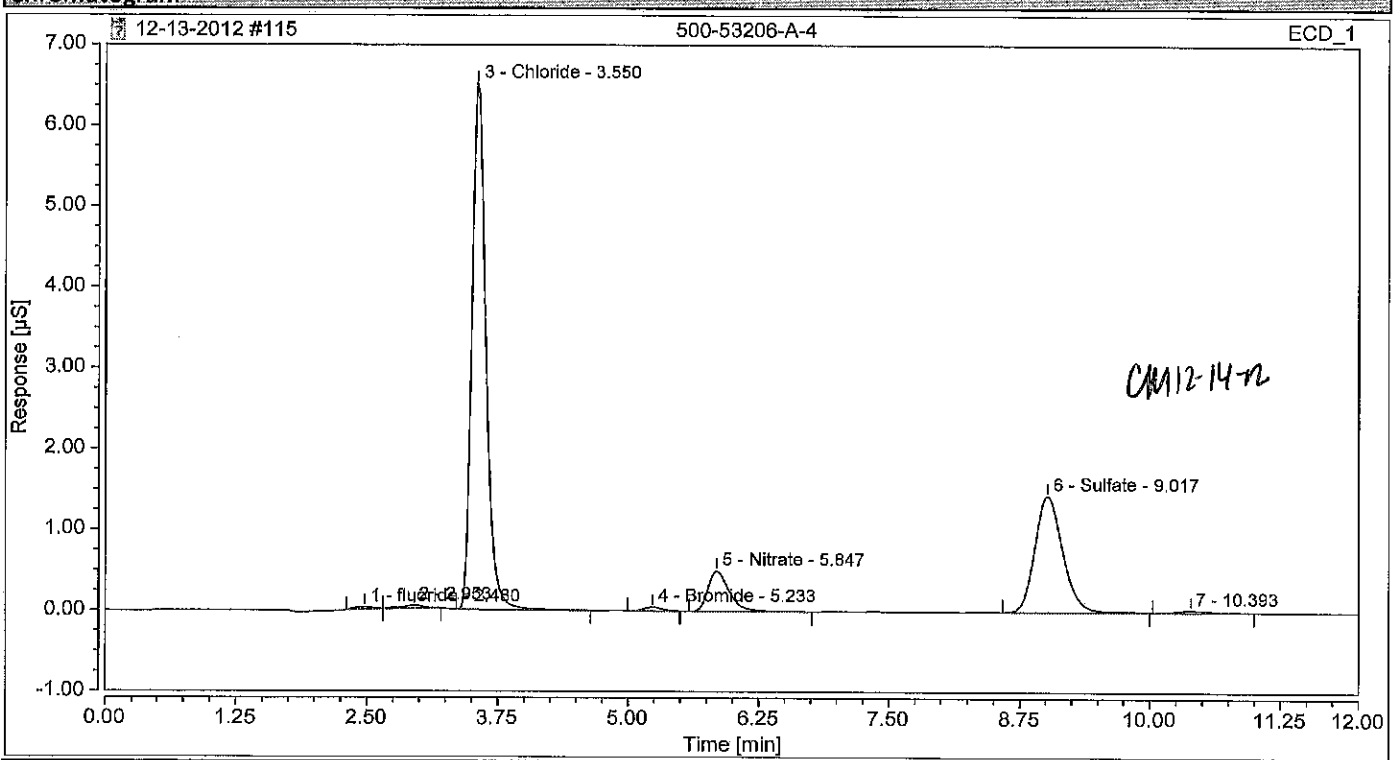
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.537	0.005	0.017	0.12	0.09	0.2765
2	Chloride	3.577	1.576	9.937	36.93	52.51	112.4395
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide KC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.870	0.196	0.819	4.59	4.33	5.8855
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate m	9.033	2.491	8.151	58.36	43.07	254.0022
Total:			**4.267**	**18.923**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**BD5**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Dec/12 10:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

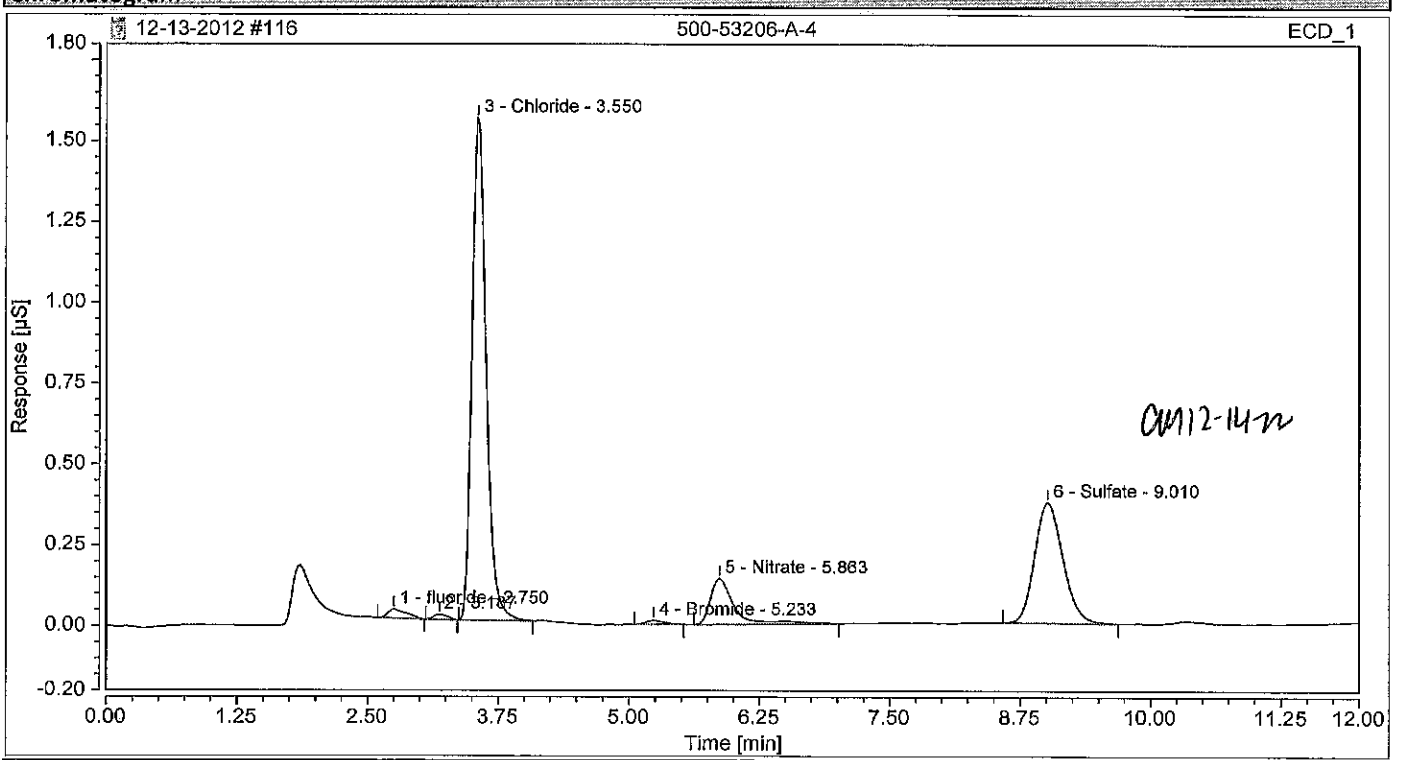
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1*	fluoride m	2.480	0.006	0.028	0.36	0.33	0.7898
2*		2.953	0.008	0.037	0.52	0.43	n.a.
3	Chloride	3.550	1.011	6.506	62.72	75.84	180.3025
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide AV	5.233	0.009	0.045	0.56	0.52	4.1123
5	Nitrate m	5.847	0.119	0.499	7.36	5.82	8.9057
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.017	0.449	1.438	27.89	16.76	114.6000
7		10.393	0.009	0.025	0.58	0.29	n.a.
Total:			**1.611**	**8.578**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-4**	*Run Time (min):*	**12.00**
Vial Number:	**BD6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**200.0000**
Injection Date/Time:	**14/Dec/12 11:06**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

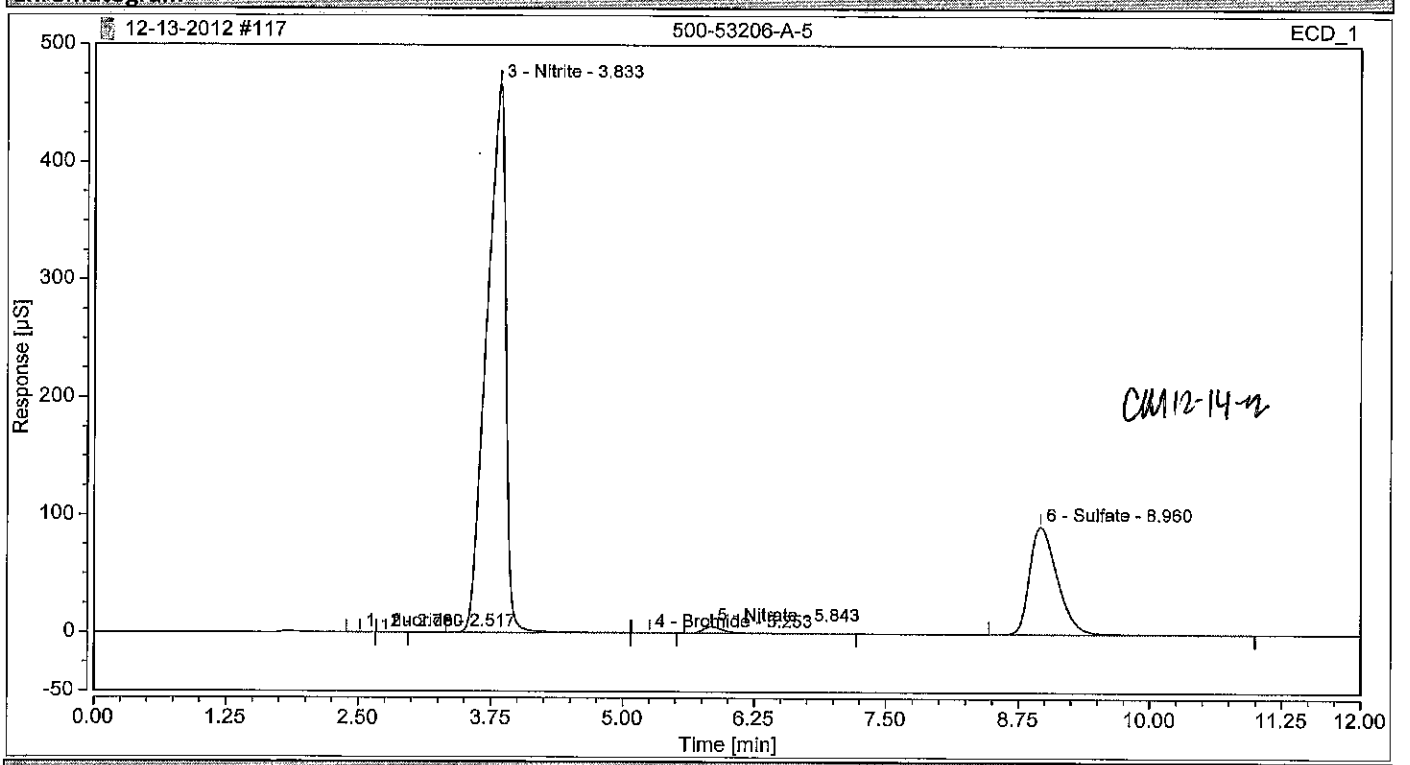
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.750	0.006	0.028	1.42	1.32	3.1793
2		3.187	0.002	0.016	0.60	0.74	n.a.
3	Chloride ~~vb~~	3.550	0.245	1.555	59.69	73.14	174.9605
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide ~~vb~~	5.233	0.002	0.012	0.60	0.59	4.5191
5	Nitrate m	5.863	0.038	0.142	9.37	6.69	11.5630
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate m	9.010	0.116	0.373	28.32	17.53	118.6510
Total:			**0.411**	**2.126**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**BD7**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 11:20**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

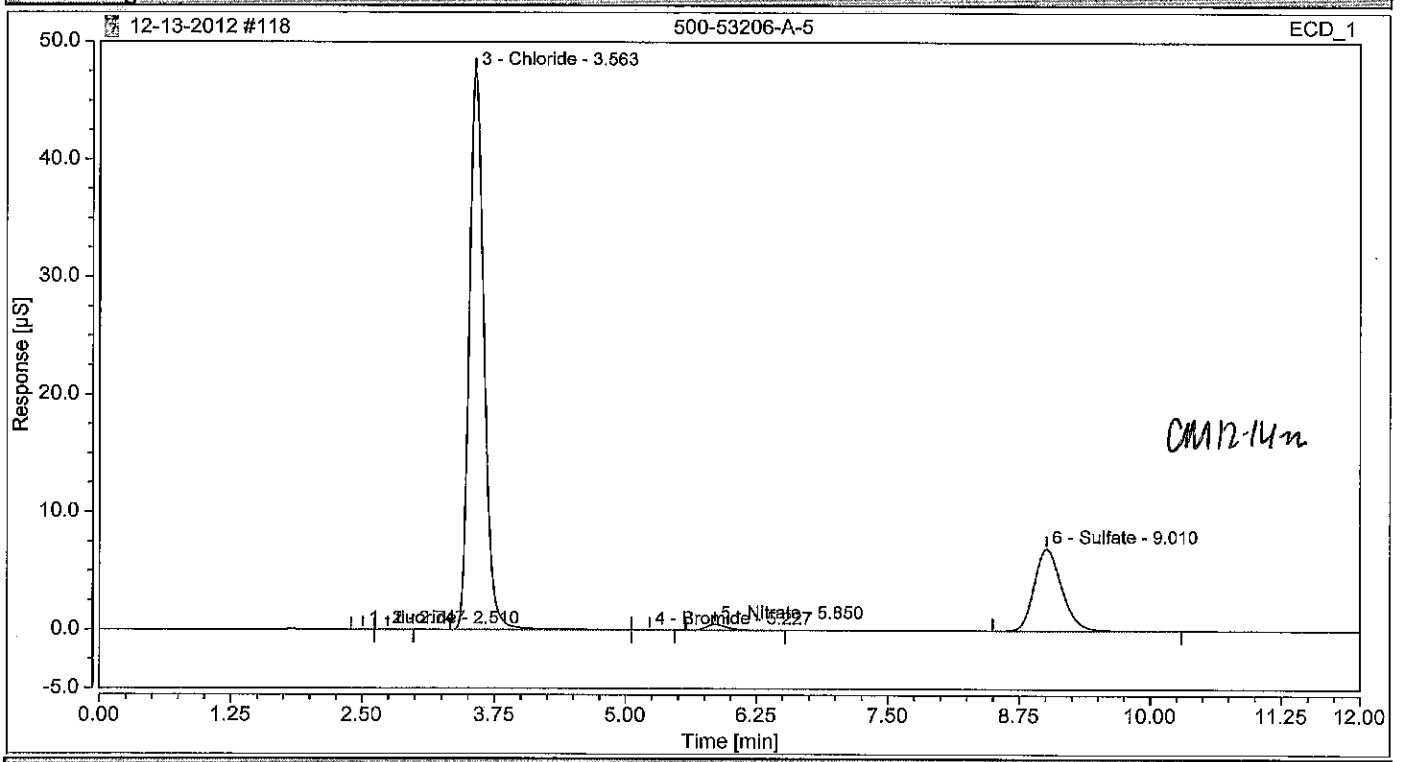
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.017	0.129	0.01	0.02	0.0470
2		2.760	0.006	0.042	0.00	0.01	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrite	3.833	96.884	467.349	76.71	82.71	151.1608
4	Bromide	5.253	0.036	0.203	0.03	0.04	0.3290
5	Nitrate	5.843	1.272	5.673	1.01	1.00	1.9103
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	8.960	28.079	91.625	22.23	16.22	143.1871
Total:			**126.294**	**565.020**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**BD8**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**14/Dec/12 11:33**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

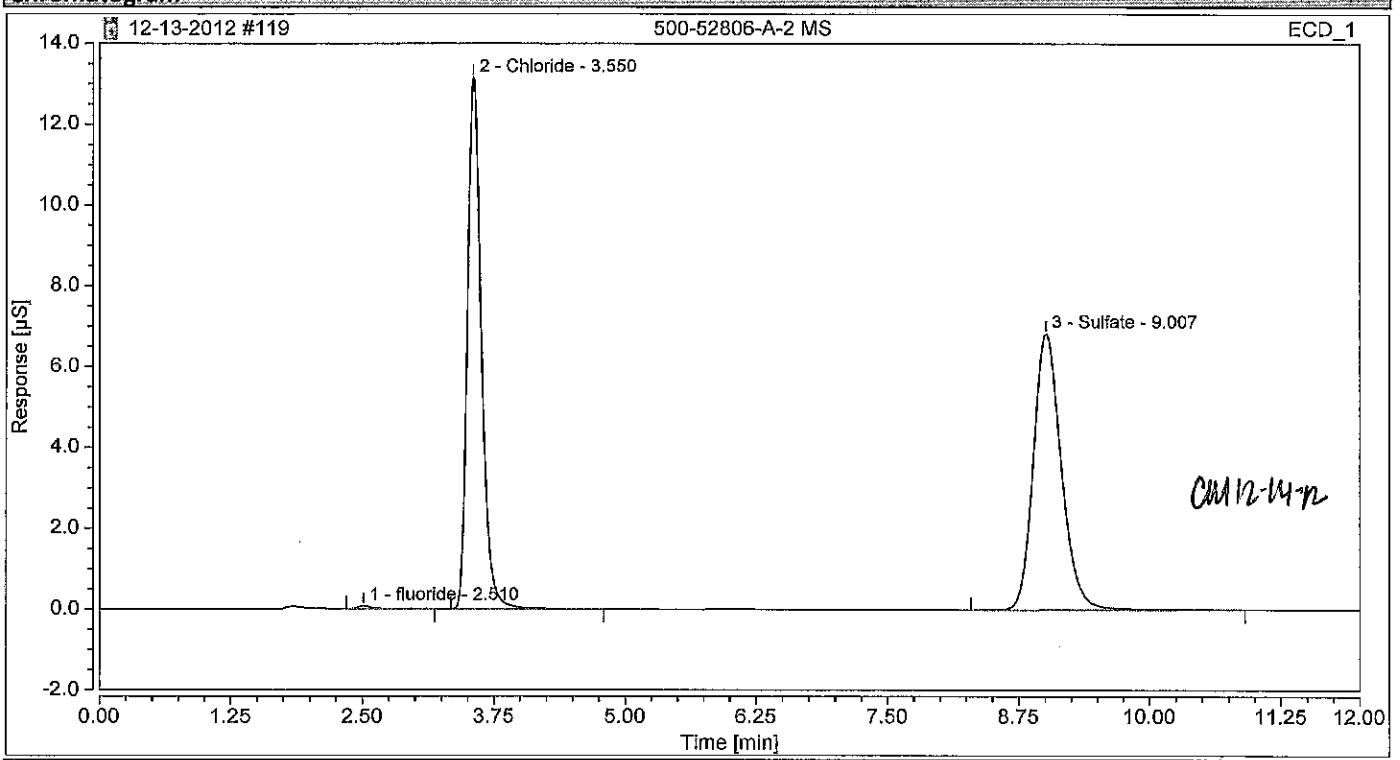
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.002	0.020	0.02	0.04	0.0593
2		2.747	0.005	0.033	0.05	0.06	n.a.
3	Chloride	3.563	7.703	47.550	77.26	86.27	274.8240
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Bromide	5.227	0.003	0.018	0.03	0.03	0.2828
5	Nitrate	5.850	0.116	0.501	1.17	0.91	1.7469
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6	Sulfate	9.010	2.141	6.994	21.47	12.69	109.1719
Total:			**9.970**	**55.116**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52808-A-2 MS**	*Run Time (min):*	**12.00**
Vial Number:	**BE1**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 11:46**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

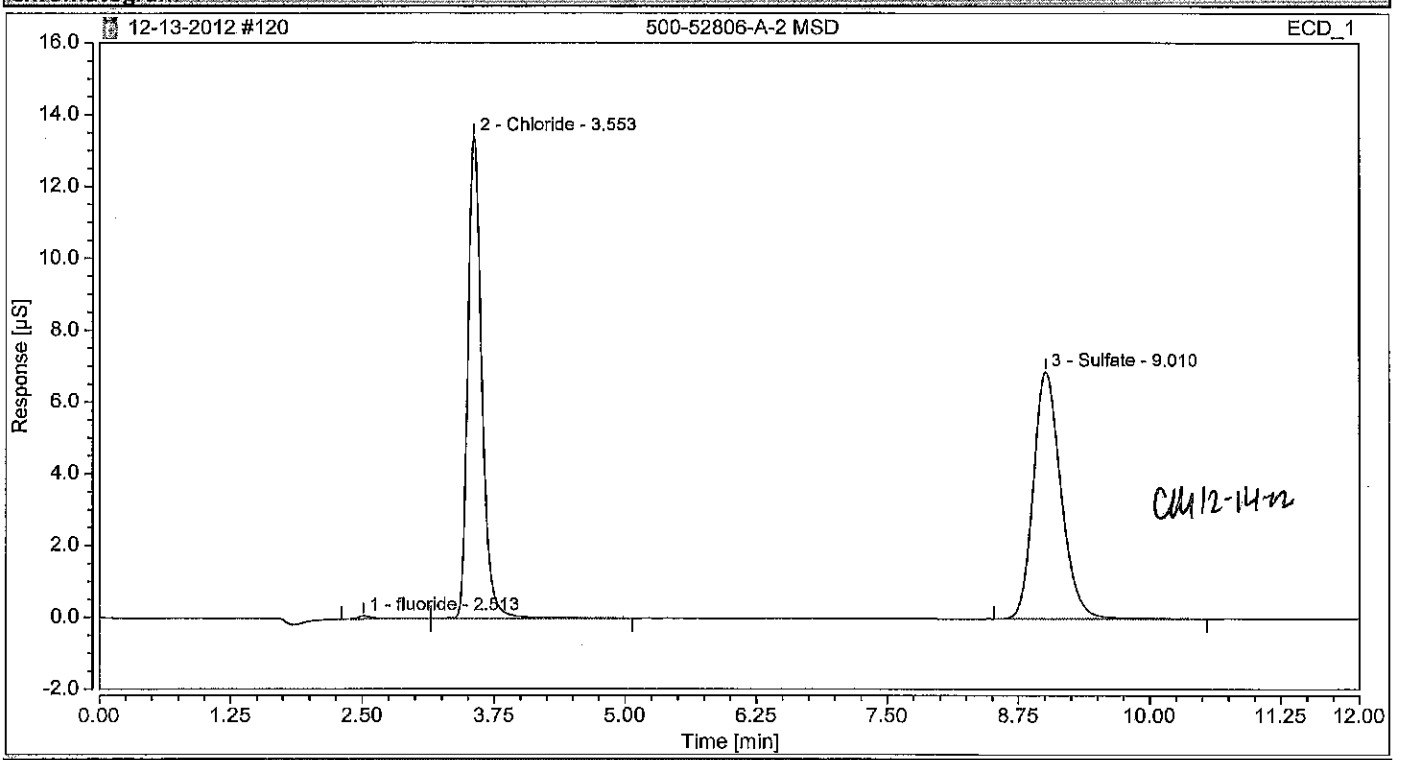
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.011	0.073	0.27	0.36	0.6176
2	Chloride	3.550	2.025	13.153	48.67	65.56	144.5251
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	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	9.007	2.124	6.837	51.05	34.08	216.6735
Total:			**4.161**	**20.062**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-52806-A-2 MSD**	*Run Time (min):*	**12.00**
Vial Number:	**BE2**	*Injection Volume:*	**25.00**
Injection Type:	**Spiked**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**14/Dec/12 12:00**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

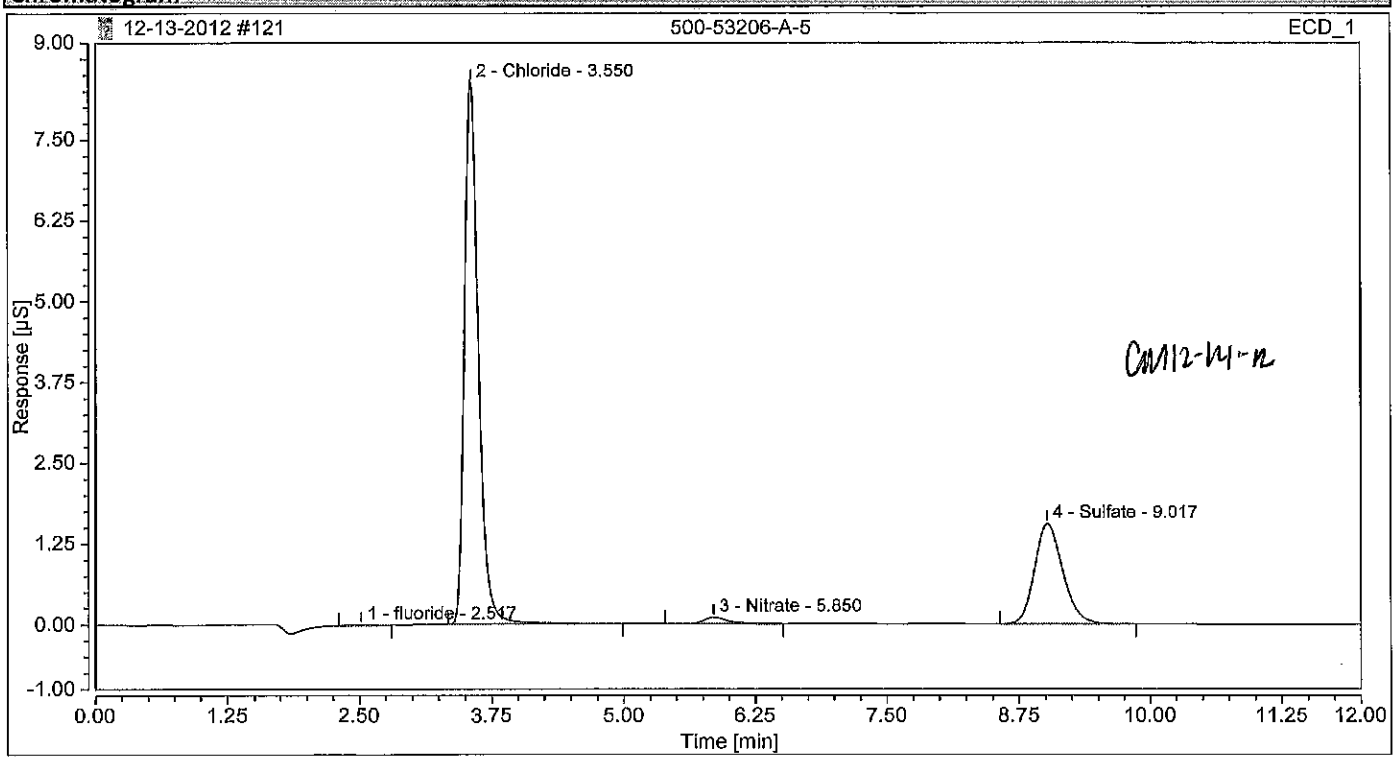
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.014	0.082	0.34	0.40	0.7623
2	Chloride	3.553	2.047	13.426	49.11	65.85	146.0740
n.a.	Nitrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	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	9.010	2.107	6.882	50.55	33.75	214.9051
Total:			**4.168**	**20.390**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**500-53206-A-5**	*Run Time (min):*	**12.00**
Vial Number:	**BE4**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Dec/12 12:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

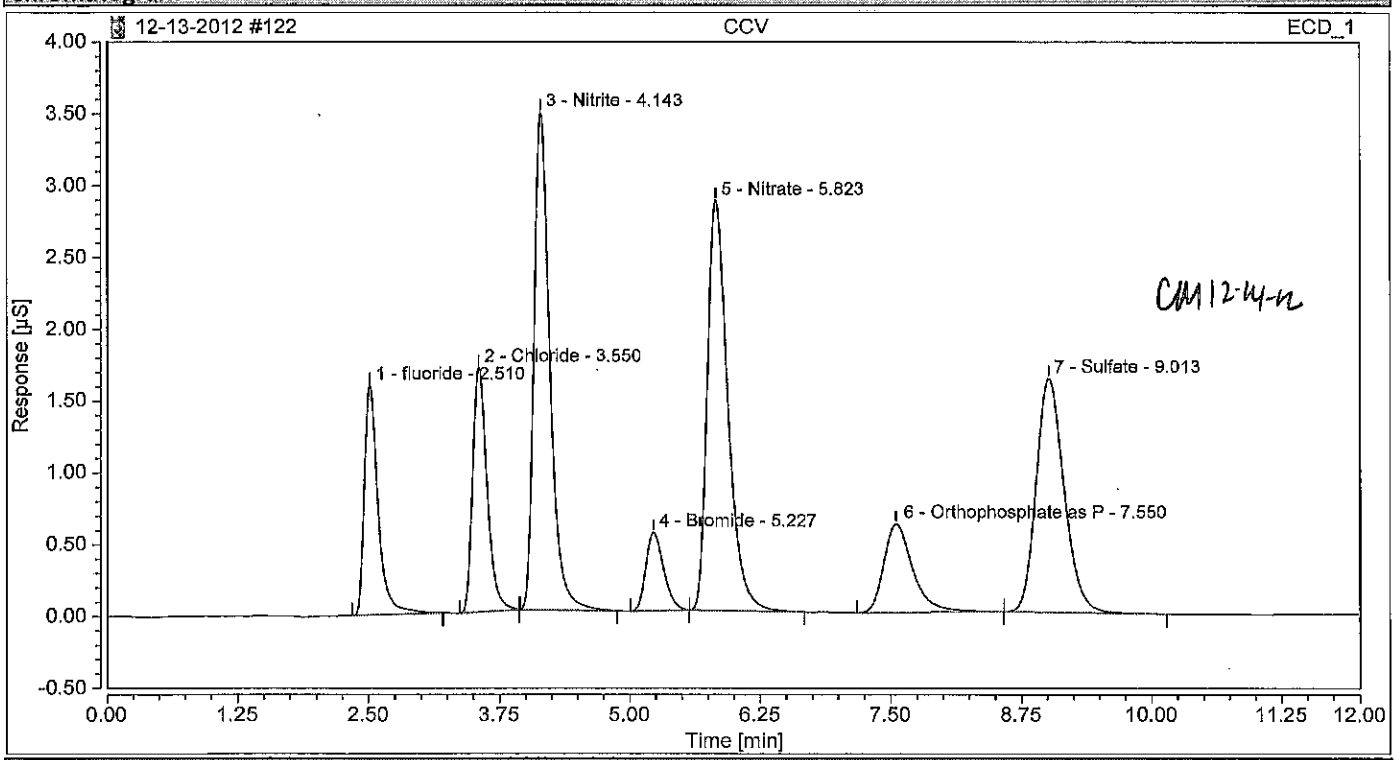
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride m	2.517	0.002	0.007	0.08	0.07	0.2076
2	Chloride	3.550	1.288	8.381	71.66	83.52	229.7034
n.a.	Nitrite m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Nitrate m	5.850	0.026	0.097	1.43	0.96	1.9249
n.a.	Orthophosphate as P m	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Sulfate m	9.017	0.482	1.550	26.82	15.45	122.8885
Total:			**1.797**	**10.035**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**12.00**
Vial Number:	**RA5**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 12:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

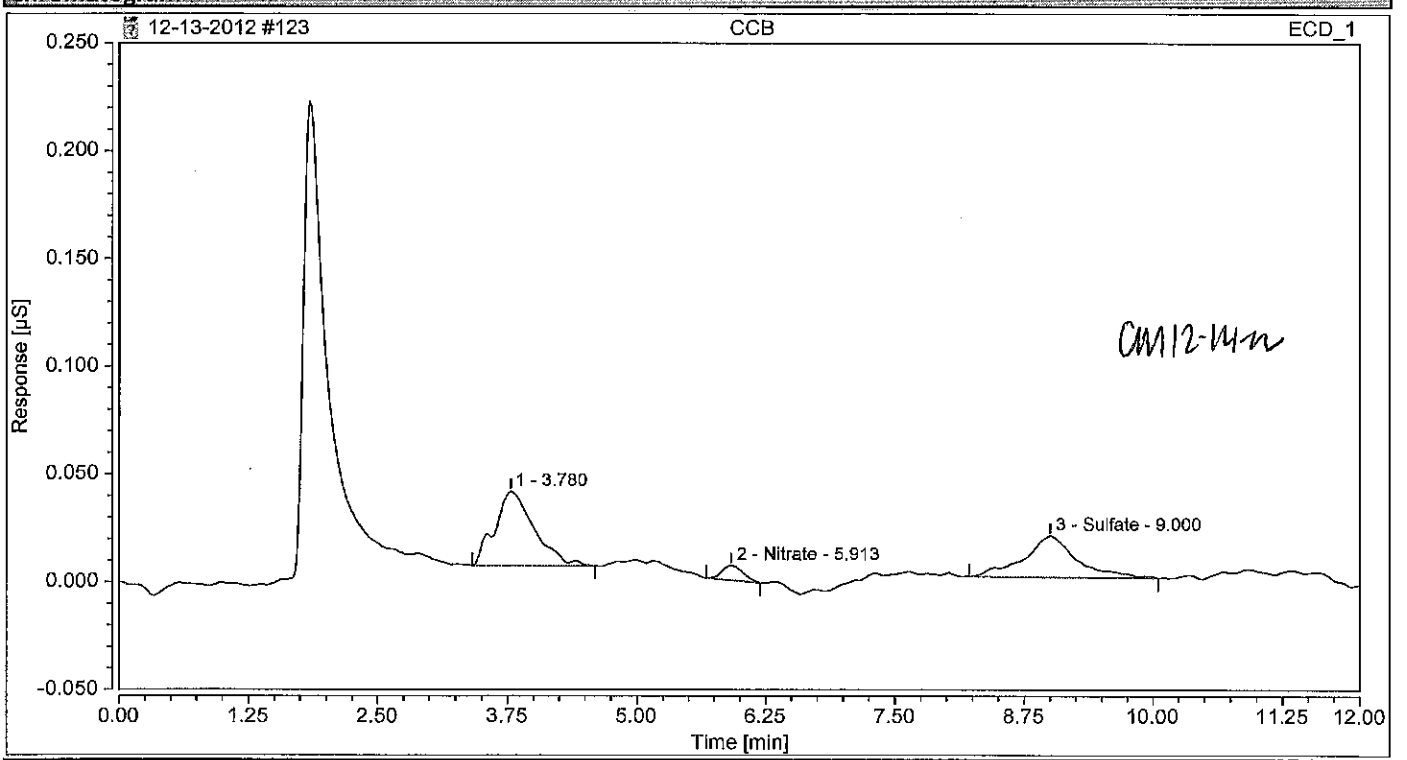
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.242	1.598	9.34	12.88	0.6592
2	Chloride	3.550	0.272	1.703	10.51	13.72	0.9717
3	Nitrite	4.143	0.611	3.465	23.59	27.91	0.9539
4	Bromide	5.227	0.108	0.546	4.18	4.40	0.9937
5	Nitrate	5.823	0.654	2.855	25.23	23.00	0.9821
6	Orthophosphate as P	7.550	0.197	0.617	7.61	4.97	0.9907
7	Sulfate	9.013	0.507	1.627	19.55	13.11	2.5839
Total:			**2.592**	**12.412**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**12.00**
Vial Number:	**RA6**	*Injection Volume:*	**25.00**
Injection Type:	**Unknown**	*Channel:*	**ECD_1**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Dec/12 12:39**	*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.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		3.780	0.015	0.034	53.69	57.08	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.
2	Nitrate	5.913	0.002	0.007	5.85	11.28	0.0025
n.a.	Orthophosphate as P	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	9.000	0.011	0.019	40.46	31.64	0.0582
Total:			**0.028**	**0.060**	**100.00**	**100.00**	

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502

Method Code: 500-ASTM_LEACH-500

Analyst: Blake, David

Batch Open: 12/10/2012 2:48:00PM

Batch End: 12/11/2012 8:48:00AM

ASTM Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	LB3~500-172502/1 N/A	N/A				N/A	N/A	N/A		LB3 500-172502/1-A
2	500-53065-A-1 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (9056)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-1-C
2	500-53065-A-1 (6020)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-1-C
3	500-53065-A-2 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (9056)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-2-D
3	500-53065-A-2 (6020)	N/A	Solid			12/17/12	6_Days - R	1		500-53065-A-2-D
4	500-53065-A-3 (7470A)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C
4	500-53065-A-3 (9066)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C
4	500-53065-A-3 (353.2)	N/A	Solid			12/19/12	8_Days - R	1		500-53065-A-3-C

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502 Analyst: Blake, David Batch Open: 12/10/2012 2:48:00PM

Method Code: 500-ASTM_LEACH-500 Batch End: 12/11/2012 8:48:00AM

4	500-53065-A-3 (9056)	N/A	Solid			12/17/12	6_Days - R	1	
4	500-53065-A-3 (6020)	N/A	Solid			12/17/12	6_Days - R	1	
5	500-53065-A-4 (7470A)	N/A	Solid			12/19/12	8_Days - R	1	
5	500-53065-A-4 (9066)	N/A	Solid			12/19/12	8_Days - R	1	
5	500-53065-A-4 (353.2)	N/A	Solid			12/19/12	8_Days - R	1	
5	500-53065-A-4 (6020)	N/A	Solid			12/17/12	6_Days - R	1	
5	500-53065-A-4 (9056)	N/A	Solid			12/17/12	6_Days - R	1	
6	500-52882-A-8 (6010B)	N/A	Solid			12/20/12	12_Days - R	3	
6	500-52882-A-8 (7470A)	N/A	Solid			12/20/12	12_Days - R	3	
7	500-52882-A-9 (6010B)	N/A	Solid			12/20/12	12_Days - R	3	
7	500-52882-A-9 (7470A)	N/A	Solid			12/20/12	12_Days - R	3	

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 500-172502 | Analyst: Blake, David | Batch Open: 12/10/2012 2:48:00PM

Method Code: 500-ASTM_LEACH-500 | Batch End: 12/11/2012 8:48:00AM

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment T-725

Comments

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
ICV~500-173019/1		300		100 mL		200 uL		300 uL	
ICB~500-173019/2		300							
500-53164-A-1	VLF-MW-6	300	T						
500-53164-A-1	VLF-MW-6	300	T						
500-53164-A-2	VLF-MW-6A	300	T						
500-53164-A-2	VLF-MW-6A	300	T						
500-53190-A-11	MW-6 12-11-12	9056	T						
500-53190-A-11	MW-6 12-11-12	9056	T						
500-53164-A-3	VLF-MW-7	300	T						
500-53164-A-3	VLF-MW-7	300	T						
500-53190-A-1	MW-7 12-11-12	9056	T						
CCV~500-173019/12		300		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/13		300							
500-53206-A-2	MW-21D	300	T						
500-53206-A-2	MW-21D	300	T						
500-53206-A-3	MW-20D	300	T						
500-53206-A-2	MW-21D	300	T						
500-53206-A-4	MW-19D	300	T						
500-53206-A-4	MW-19D	300	T						
500-53206-A-5	MP-13 (82-84')	300	T						
500-53206-A-5	MP-13 (82-84')	300	T						
500-52806-A-2~MS		9056A	D	100 mL				300 uL	
500-52806-A-2~MSD		9056A	D	100 mL				300 uL	
500-53206-A-5	MP-13 (82-84')	300	T						
CCV~500-173019/25		300		100 mL	100 uL		100 uL		100 uL

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2I1_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
ICV~500-173019/1		300			200 uL	200 uL		500 uL
ICB~500-173019/2		300						
500-53164-A-1	VLF-MW-6	300	T					
500-53164-A-1	VLF-MW-6	300	T					
500-53164-A-2	VLF-MW-6A	300	T					
500-53164-A-2	VLF-MW-6A	300	T					
500-53190-A-11	MW-6 12-11-12	9056	T					
500-53190-A-11	MW-6 12-11-12	9056	T					
500-53164-A-3	VLF-MW-7	300	T					
500-53164-A-3	VLF-MW-7	300	T					
500-53190-A-1	MW-7 12-11-12	9056	T					
CCV~500-173019/12		300		100 uL			250 uL	
CCB~500-173019/13		300						
500-53206-A-2	MW-21D	300	T					
500-53206-A-2	MW-21D	300	T					
500-53206-A-3	MW-20D	300	T					
500-53206-A-2	MW-21D	300	T					
500-53206-A-4	MW-19D	300	T					
500-53206-A-4	MW-19D	300	T					
500-53206-A-5	MP-13 (82-84')	300	T					
500-53206-A-5	MP-13 (82-84')	300	T					
500-52806-A-2~MS		9056A	D					500 uL
500-52806-A-2~MSD		9056A	D					500 uL
500-53206-A-5	MP-13 (82-84')	300	T					
CCV~500-173019/25		300		100 uL			250 uL	

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
CCB~500-173019/26		300							
500-53190-A-1	MW-7 12-11-12	9056	T						
CCV~500-173019/28		300		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/29		300							
500-53190-A-2	DUP-1	9056	T						
500-53190-A-2	DUP-1	9056	T						
500-53164-A-4	VLF-MW-5	300	T						
500-53164-A-4	VLF-MW-5	300	T						
MB~500-173019/34		300							
500-53190-A-12	MW-5 12-11-12	9056	T						
500-53190-A-12	MW-5 12-11-12	9056	T						
500-53164-A-5	VLF-MW-2	300	T						
500-53164-A-5	VLF-MW-2	300	T						
500-53190-A-13	MW-1 12-11-12	9056	T						
CCV~500-173019/40		9056		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/41		9056							
500-53190-A-13	MW-1 12-11-12	9056	T						
500-53190-A-3	MW-9 12-11-12	9056	T						
500-53190-A-3	MW-9 12-11-12	9056	T						
LCS~500-173019/45		300		100 mL		200 uL		300 uL	
500-53190-A-5	MW-8 12-11-12	9056	T						
500-53190-A-5	MW-8 12-11-12	9056	T						
500-53190-A-14	MW-2 12-11-12	9056	T						
500-53190-A-14	MW-2 12-11-12	9056	T						
500-53190-A-8	MW-11 12-12-12	9056	T						

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2II_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
CCB~500-173019/26		300						
500-53190-A-1	MW-7 12-11-12	9056	T					
CCV~500-173019/28		300		100 uL			250 uL	
CCB~500-173019/29		300						
500-53190-A-2	DUP-1	9056	T					
500-53190-A-2	DUP-1	9056	T					
500-53164-A-4	VLF-MW-5	300	T					
500-53164-A-4	VLF-MW-5	300	T					
MB~500-173019/34		300						
500-53190-A-12	MW-5 12-11-12	9056	T					
500-53190-A-12	MW-5 12-11-12	9056	T					
500-53164-A-5	VLF-MW-2	300	T					
500-53164-A-5	VLF-MW-2	300	T					
500-53190-A-13	MW-1 12-11-12	9056	T					
CCV~500-173019/40		9056		100 uL			250 uL	
CCB~500-173019/41		9056						
500-53190-A-13	MW-1 12-11-12	9056	T					
500-53190-A-3	MW-9 12-11-12	9056	T					
500-53190-A-3	MW-9 12-11-12	9056	T					
LCS~500-173019/45		300			200 uL	200 uL		500 uL
500-53190-A-5	MW-8 12-11-12	9056	T					
500-53190-A-5	MW-8 12-11-12	9056	T					
500-53190-A-14	MW-2 12-11-12	9056	T					
500-53190-A-14	MW-2 12-11-12	9056	T					
500-53190-A-8	MW-11 12-12-12	9056	T					

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
500-53190-A-8	MW-11 12-12-12	9056	T						
CCV~500-173019/52		9056		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/53		9056							
500-53190-A-15	MW-3 12-12-12	9056	T						
500-53190-A-15	MW-3 12-12-12	9056	T						
500-53190-A-9	MW-11B 12-12-12	9056	T						
500-53190-A-9	MW-11B 12-12-12	9056	T						
500-53234-I-1	VLF-MW-3	300	T						
500-53234-I-1	VLF-MW-3	300	T						
500-53234-I-3	OLD-MW-4	300	T						
500-53234-I-3	OLD-MW-4	300	T						
500-53234-I-2	VLF-MW-4	300	T						
500-53234-I-2	VLF-MW-4	300	T						
CCV~500-173019/64		9056		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/65		9056							
500-53234-I-4	OLD-MW-9	300	T						
500-53234-I-4	OLD-MW-9	300	T						
500-53164-A-1	VLF-MW-6	300	T						
500-53164-A-2	VLF-MW-6A	300	T						
500-53164-A-3	VLF-MW-7	300	T						
500-53164-A-4	VLF-MW-5	300	T						
500-53164-A-5	VLF-MW-2	300	T						
500-53190-A-1	MW-7 12-11-12	9056	T						
500-53190-A-2	DUP-1	9056	T						
500-53190-A-3	MW-9 12-11-12	9056	T						

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2I1_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
500-53190-A-8	MW-11 12-12-12	9056	T					
CCV~500-173019/52		9056		100 uL			250 uL	
CCB~500-173019/53		9056						
500-53190-A-15	MW-3 12-12-12	9056	T					
500-53190-A-15	MW-3 12-12-12	9056	T					
500-53190-A-9	MW-11B 12-12-12	9056	T					
500-53190-A-9	MW-11B 12-12-12	9056	T					
500-53234-I-1	VLF-MW-3	300	T					
500-53234-I-1	VLF-MW-3	300	T					
500-53234-I-3	OLD-MW-4	300	T					
500-53234-I-3	OLD-MW-4	300	T					
500-53234-I-2	VLF-MW-4	300	T					
500-53234-I-2	VLF-MW-4	300	T					
CCV~500-173019/64		9056		100 uL			250 uL	
CCB~500-173019/65		9056						
500-53234-I-4	OLD-MW-9	300	T					
500-53234-I-4	OLD-MW-9	300	T					
500-53164-A-1	VLF-MW-6	300	T					
500-53164-A-2	VLF-MW-6A	300	T					
500-53164-A-3	VLF-MW-7	300	T					
500-53164-A-4	VLF-MW-5	300	T					
500-53164-A-5	VLF-MW-2	300	T					
500-53190-A-1	MW-7 12-11-12	9056	T					
500-53190-A-2	DUP-1	9056	T					
500-53190-A-3	MW-9 12-11-12	9056	T					

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
CCV~500-173019/76		300		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/77		300							
500-53190-A-5	MW-8 12-11-12	9056	T						
500-53190-A-11	MW-6 12-11-12	9056	T						
500-53190-A-12	MW-5 12-11-12	9056	T						
500-53190-A-13	MW-1 12-11-12	9056	T						
500-53190-A-14	MW-2 12-11-12	9056	T						
500-53164-A-3~MS	VLF-MW-7	300	T	100 mL				300 uL	
500-53164-A-3~MS	VLF-MW-7	300	T	100 mL				300 uL	
500-53164-A-3~MS	VLF-MW-7	300	T	100 mL				300 uL	
500-53164-A-3~MSD	VLF-MW-7	300	T	100 mL				300 uL	
500-53164-A-3~MSD	VLF-MW-7	300	T	100 mL				300 uL	
CCV~500-173019/88		9056		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/89		9056							
500-53164-A-3~MSD	VLF-MW-7	300	T	100 mL				300 uL	
500-53190-A-1~MS	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MS	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MS	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MSD	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MSD	MW-7 12-11-12	9056	T	100 mL				300 uL	
500-53190-A-1~MSD	MW-7 12-11-12	9056	T	100 mL				300 uL	
MB~500-173019/97		300							
LCS~500-173019/98		300		100 mL		200 uL		300 uL	
LB3~500-172502/1-A		9056							
CCV~500-173019/100		300		100 mL	100 uL		100 uL		100 uL

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2II_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
CCV~500-173019/76		300		100 uL			250 uL	
CCB~500-173019/77		300						
500-53190-A-5	MW-8 12-11-12	9056	T					
500-53190-A-11	MW-6 12-11-12	9056	T					
500-53190-A-12	MW-5 12-11-12	9056	T					
500-53190-A-13	MW-1 12-11-12	9056	T					
500-53190-A-14	MW-2 12-11-12	9056	T					
500-53164-A-3~MS	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53164-A-3~MS	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53164-A-3~MS	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53164-A-3~MSD	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53164-A-3~MSD	VLF-MW-7	300	T		200 uL	200 uL		500 uL
CCV~500-173019/88		9056		100 uL			250 uL	
CCB~500-173019/89		9056						
500-53164-A-3~MSD	VLF-MW-7	300	T		200 uL	200 uL		500 uL
500-53190-A-1~MS	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MS	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MS	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MSD	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MSD	MW-7 12-11-12	9056	T			200 uL		500 uL
500-53190-A-1~MSD	MW-7 12-11-12	9056	T			200 uL		500 uL
MB~500-173019/97		300						
LCS~500-173019/98		300			200 uL	200 uL		500 uL
LB3~500-172502/1-A		9056						
CCV~500-173019/100		300		100 uL			250 uL	

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	WSTICBR1_00005	WSTICBR2_00004	WSTICCL1_00007	WSTICCL2_00007	WSTICN031_00005
CCB~500-173019/101		300							
500-53065-A-1-C		9056	Y						
500-53065-A-2-D		9056	Y						
500-53065-A-3-C		9056	Y						
500-53065-A-4-C		9056	Y						
500-52806-A-1	MW3/G108	9056A	D						
500-52806-A-2	MW107/G107	9056A	D						
500-52806-A-4	MW110/G110	9056A	D						
500-52806-A-7	MW106/G106	9056A	D						
500-53094-A-36	MW-1A 83	300	D						
500-53094-A-37	MW-15 90	300	D						
CCV~500-173019/112		9056A		100 mL	100 uL		100 uL		100 uL
CCB~500-173019/113		9056A							
500-53094-A-38	MW-27A 103	300	D						
500-53094-A-39	MW-27A DUP	300	D						
500-53161-A-1	MW-20D	300	T						
500-53161-A-1	MW-20D	300	T						
500-53161-A-2	Tank 2 Batch 1	300	T						
500-53161-A-2	Tank 2 Batch 1	300	T						
500-53161-A-3	MW-19D	300	T						
500-53161-A-3	MW-19D	300	T						
500-53206-A-1	TANK 1 BATCH 4	300	T						
500-53206-A-1	TANK 1 BATCH 4	300	T						

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	WSTICNI1_00004	WSTICNO2II_00002	WSTICNO32_00008	WSTICS1_00006	WSTICS2_00005
CCB~500-173019/101		300						
500-53065-A-1-C		9056	Y					
500-53065-A-2-D		9056	Y					
500-53065-A-3-C		9056	Y					
500-53065-A-4-C		9056	Y					
500-52806-A-1	MW3/G108	9056A	D					
500-52806-A-2	MW107/G107	9056A	D					
500-52806-A-4	MW110/G110	9056A	D					
500-52806-A-7	MW106/G106	9056A	D					
500-53094-A-36	MW-1A 83	300	D					
500-53094-A-37	MW-15 90	300	D					
CCV~500-173019/112		9056A		100 uL			250 uL	
CCB~500-173019/113		9056A						
500-53094-A-38	MW-27A 103	300	D					
500-53094-A-39	MW-27A DUP	300	D					
500-53161-A-1	MW-20D	300	T					
500-53161-A-1	MW-20D	300	T					
500-53161-A-2	Tank 2 Batch 1	300	T					
500-53161-A-2	Tank 2 Batch 1	300	T					
500-53161-A-3	MW-19D	300	T					
500-53161-A-3	MW-19D	300	T					
500-53206-A-1	TANK 1 BATCH 4	300	T					
500-53206-A-1	TANK 1 BATCH 4	300	T					

Filter Lot #: ACRODISC21782182-0.45
Balance ID: NA
Pipette ID: NA
Eluent 1 Lot: ELUENTCONC00005
Regeneration Solution Lot: NA
Ethylenediamine Lot: NA

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
ICV~500-173019/1		300		
ICB~500-173019/2		300		
500-53164-A-1	VLF-MW-6	300	T	
500-53164-A-1	VLF-MW-6	300	T	
500-53164-A-2	VLF-MW-6A	300	T	
500-53164-A-2	VLF-MW-6A	300	T	
500-53190-A-11	MW-6 12-11-12	9056	T	
500-53190-A-11	MW-6 12-11-12	9056	T	
500-53164-A-3	VLF-MW-7	300	T	
500-53164-A-3	VLF-MW-7	300	T	
500-53190-A-1	MW-7 12-11-12	9056	T	
CCV~500-173019/12		300		
CCB~500-173019/13		300		
500-53206-A-2	MW-21D	300	T	
500-53206-A-2	MW-21D	300	T	
500-53206-A-3	MW-20D	300	T	
500-53206-A-2	MW-21D	300	T	
500-53206-A-4	MW-19D	300	T	
500-53206-A-4	MW-19D	300	T	
500-53206-A-5	MP-13 (82-84')	300	T	
500-53206-A-5	MP-13 (82-84')	300	T	
500-52806-A-2~MS		9056A	D	
500-52806-A-2~MSD		9056A	D	
500-53206-A-5	MP-13 (82-84')	300	T	
CCV~500-173019/25		300		

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
CCB~500-173019/26		300		
500-53190-A-1	MW-7 12-11-12	9056	T	
CCV~500-173019/28		300		
CCB~500-173019/29		300		
500-53190-A-2	DUP-1	9056	T	
500-53190-A-2	DUP-1	9056	T	
500-53164-A-4	VLF-MW-5	300	T	
500-53164-A-4	VLF-MW-5	300	T	
MB~500-173019/34		300		
500-53190-A-12	MW-5 12-11-12	9056	T	
500-53190-A-12	MW-5 12-11-12	9056	T	
500-53164-A-5	VLF-MW-2	300	T	
500-53164-A-5	VLF-MW-2	300	T	
500-53190-A-13	MW-1 12-11-12	9056	T	
CCV~500-173019/40		9056		
CCB~500-173019/41		9056		
500-53190-A-13	MW-1 12-11-12	9056	T	
500-53190-A-3	MW-9 12-11-12	9056	T	
500-53190-A-3	MW-9 12-11-12	9056	T	
LCS~500-173019/45		300		
500-53190-A-5	MW-8 12-11-12	9056	T	
500-53190-A-5	MW-8 12-11-12	9056	T	
500-53190-A-14	MW-2 12-11-12	9056	T	
500-53190-A-14	MW-2 12-11-12	9056	T	
500-53190-A-8	MW-11 12-12-12	9056	T	

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
500-53190-A-8	MW-11 12-12-12	9056	T		
CCV~500-173019/52		9056			
CCB~500-173019/53		9056			
500-53190-A-15	MW-3 12-12-12	9056	T		
500-53190-A-15	MW-3 12-12-12	9056	T		
500-53190-A-9	MW-11B 12-12-12	9056	T		
500-53190-A-9	MW-11B 12-12-12	9056	T		
500-53234-I-1	VLF-MW-3	300	T		
500-53234-I-1	VLF-MW-3	300	T		
500-53234-I-3	OLD-MW-4	300	T		
500-53234-I-3	OLD-MW-4	300	T		
500-53234-I-2	VLF-MW-4	300	T		
500-53234-I-2	VLF-MW-4	300	T		
CCV~500-173019/64		9056			
CCB~500-173019/65		9056			
500-53234-I-4	OLD-MW-9	300	T		
500-53234-I-4	OLD-MW-9	300	T		
500-53164-A-1	VLF-MW-6	300	T		
500-53164-A-2	VLF-MW-6A	300	T		
500-53164-A-3	VLF-MW-7	300	T		
500-53164-A-4	VLF-MW-5	300	T		
500-53164-A-5	VLF-MW-2	300	T		
500-53190-A-1	MW-7 12-11-12	9056	T		
500-53190-A-2	DUP-1	9056	T		
500-53190-A-3	MW-9 12-11-12	9056	T		

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
CCV~500-173019/76		300			
CCB~500-173019/77		300			
500-53190-A-5	MW-8 12-11-12	9056	T		
500-53190-A-11	MW-6 12-11-12	9056	T		
500-53190-A-12	MW-5 12-11-12	9056	T		
500-53190-A-13	MW-1 12-11-12	9056	T		
500-53190-A-14	MW-2 12-11-12	9056	T		
500-53164-A-3~MS	VLF-MW-7	300	T		
500-53164-A-3~MS	VLF-MW-7	300	T		
500-53164-A-3~MS	VLF-MW-7	300	T		
500-53164-A-3~MSD	VLF-MW-7	300	T		
500-53164-A-3~MSD	VLF-MW-7	300	T		
CCV~500-173019/88		9056			
CCB~500-173019/89		9056			
500-53164-A-3~MSD	VLF-MW-7	300	T		
500-53190-A-1~MS	MW-7 12-11-12	9056	T		
500-53190-A-1~MS	MW-7 12-11-12	9056	T		
500-53190-A-1~MS	MW-7 12-11-12	9056	T		
500-53190-A-1~MSD	MW-7 12-11-12	9056	T		
500-53190-A-1~MSD	MW-7 12-11-12	9056	T		
500-53190-A-1~MSD	MW-7 12-11-12	9056	T		
MB~500-173019/97		300			
LCS~500-173019/98		300			
LB3~500-172502/1-A		9056			
CCV~500-173019/100		300			

General Chemistry Worksheet

Batch Number: 500-173019
Method: 300.0
Analyst: Moore, Colleen L

Date Open: Dec 13 2012 9:37AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
CCB~500-173019/101		300			
500-53065-A-1-C		9056	Y		
500-53065-A-2-D		9056	Y		
500-53065-A-3-C		9056	Y		
500-53065-A-4-C		9056	Y		
500-52806-A-1	MW3/G108	9056A	D		
500-52806-A-2	MW107/G107	9056A	D		
500-52806-A-4	MW110/G110	9056A	D		
500-52806-A-7	MW106/G106	9056A	D		
500-53094-A-36	MW-1A 83	300	D		
500-53094-A-37	MW-15 90	300	D		
CCV~500-173019/112		9056A			
CCB~500-173019/113		9056A			
500-53094-A-38	MW-27A 103	300	D		
500-53094-A-39	MW-27A DUP	300	D		
500-53161-A-1	MW-20D	300	T		
500-53161-A-1	MW-20D	300	T		
500-53161-A-2	Tank 2 Batch 1	300	T		
500-53161-A-2	Tank 2 Batch 1	300	T		
500-53161-A-3	MW-19D	300	T		
500-53161-A-3	MW-19D	300	T		
500-53206-A-1	TANK 1 BATCH 4	300	T		
500-53206-A-1	TANK 1 BATCH 4	300	T		

Batch Comment: AG14A-5UM/AS14A-5UM

TestAmerica Chicago

Alkalinity

Analytical Batch # 173256

NCM # _____

Method: SM 2320B

Instrument: PC Titrate

Alkalinity Calculations :

> 20 mg/L alk = tcon x 50,000 x ep1 or ep2a / svol

< 20 mg/L alk = (2 X ep2a - ep2b) X tcon X 50,000 / svol

where:

ep1 = mLs titrant to pH 8.3 (endpoint for Phenolphthalein Alkalinity)
ep2a = mLs Titrant to pH 4.5 (endpoint for Total Alkalinity)
ep2b = total mLs Titrant to lower pH an additional 0.30 units
tcon = Titrant normality
svol = mL sample volume

Alkalinity Relationships :

Result (as CaCO3)	OH Alk.	Carb. Alk.	Bicarb. Alk.
P = 0	0	0	T
P < 1/2 T	0	2P	T - 2P
P = 1/2 T	0	2P	0
P > 1/2 T	2P - T	2(T - P)	0
P = T	T	0	0

Key

P = Phenophthalein Alkalinity (as CaCO3 titr. To pH 8.3)
T = Total Alkalinity (as CaCO3 titr. To pH 4.5)
OH = Hydroxide Alkalinity

Note: All calculations are performed by the PC Titrate Software.
The PC Titrate autosampler draws 20 ml of each buffer, standard, and sample for titration.

Standard Traceability:

ICAL	pH Buffer 4.0	pH4RED-26
ICAL	pH Buffer 7.0	pH7YELLOW-21
CCAL	pH Buffer 7.0	pH7CLEAR-36
	LCS	WCSTALK-6

Spiking Levels:

LCS 100 mg/L

Analyst: Colleen Moore Analysis Date: 12-17/18W

Reviewer: [signature] Date: 12/18/17

CHI-22-12-114/C-11/09

173256

CM 12-18-12

PC-TitratION PLUS
Calibration Report

Calibration Record # 152

Calibration Settings

Calibration ID	PH	Date	12/17/2012
Channel	1	Time	7:24 PM
Probe Type	pH	Temperature	295.22 K 22.07 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit

Calibration Results

Slope	-58.815	CorrCoeff	1.0000
Intercept	-16.193	Equation: Y = (-58.815) X + (-16.193)	

Calibration Validity True Operator

	Result	Minimum	Maximum
Slope	-58.815	-65.00	-53.00
Intercept	-16.193	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00	160.76
	7.00	-17.21
	10.00	-192.13

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago

Water Analysis Report

172256
CM 12-18-12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Run Number 363 **Order Number** 20121217-1

SampleID	RunDate	RunTime	Temp	pH	pH (mV)	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	EP @ 8.3 (ml)	EP @ 4.5 (ml)	EP @ 4.2 (ml)	F-ppm	F (mV)
PHC-1	12/17/2012	7:37 PM	21.85	7.00	-16.23	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
MB	12/17/2012	7:42 PM	20.62	6.04	41.38	.00	.12	.12	.00	.00	.00	.04	.08	-1.00	-1.00
LCS	12/17/2012	7:47 PM	20.89	11.02	-251.70	95.00	101.87	.00	13.74	88.13	2.37	2.55	-1.00	-1.00	-1.00
500-53094-A-43	12/17/2012	7:53 PM	20.18	7.58	-50.53	.00	391.63	391.63	.00	.00	.00	9.79	-1.00	-1.00	-1.00
500-53174-D-1	12/17/2012	7:59 PM	18.08	7.16	-25.75	.00	248.47	248.47	.00	.00	.00	6.21	-1.00	-1.00	-1.00
500-53174-D-2	12/17/2012	8:04 PM	18.17	7.56	-48.82	.00	391.29	391.29	.00	.00	.00	9.78	-1.00	-1.00	-1.00
500-53174-D-3	12/17/2012	8:12 PM	18.25	7.26	-31.49	.00	840.52	840.52	.00	.00	.00	21.01	-1.00	-1.00	-1.00
500-53174-D-4	12/17/2012	8:19 PM	18.91	7.44	-41.99	.00	645.28	645.28	.00	.00	.00	16.13	-1.00	-1.00	-1.00
500-53174-D-5	12/17/2012	8:25 PM	19.32	7.37	-37.71	.00	581.93	581.93	.00	.00	.00	14.55	-1.00	-1.00	-1.00
500-53174-D-6	12/17/2012	8:32 PM	18.48	7.99	-73.73	.00	429.85	429.85	.00	.00	.00	10.75	-1.00	-1.00	-1.00
500-53174-D-7	12/17/2012	8:38 PM	18.20	7.23	-29.78	.00	507.85	507.85	.00	.00	.00	12.70	-1.00	-1.00	-1.00
PHC-2	12/17/2012	8:52 PM	19.26	7.15	-24.78	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
500-53174-D-8	12/17/2012	9:00 PM	19.54	7.32	-35.03	.00	1,098.18	1,098.18	.00	.00	.00	27.45	-1.00	-1.00	-1.00
500-53174-D-9	12/17/2012	9:05 PM	20.74	8.04	-77.02	.00	87.30	87.30	.00	.00	.00	2.18	-1.00	-1.00	-1.00
500-53151-I-1	12/17/2012	9:11 PM	20.74	7.70	-57.25	.00	149.16	149.16	.00	.00	.00	3.73	-1.00	-1.00	-1.00
500-53151-I-2	12/17/2012	9:16 PM	19.94	7.90	-68.60	.00	100.87	100.87	.00	.00	.00	2.52	-1.00	-1.00	-1.00
500-53151-I-3	12/17/2012	9:21 PM	19.56	7.79	-62.37	.00	209.59	209.59	.00	.00	.00	5.24	-1.00	-1.00	-1.00
500-53151-I-4	12/17/2012	9:27 PM	19.01	7.01	-16.72	.00	307.61	307.61	.00	.00	.00	7.69	-1.00	-1.00	-1.00
500-53151-I-5	12/17/2012	9:32 PM	19.03	7.63	-53.22	.00	148.08	148.08	.00	.00	.00	3.70	-1.00	-1.00	-1.00
500-53152-I-1	12/17/2012	9:38 PM	19.68	7.99	-73.85	.00	217.06	217.06	.00	.00	.00	5.43	-1.00	-1.00	-1.00
500-53190-G-1	12/17/2012	9:43 PM	20.60	7.48	-44.67	.00	306.84	306.84	.00	.00	.00	7.67	-1.00	-1.00	-1.00
500-53190-G-1 DU	12/17/2012	9:49 PM	20.51	7.38	-38.81	.00	313.34	313.34	.00	.00	.00	7.83	-1.00	-1.00	-1.00
PHC-3	12/17/2012	10:02 PM	19.93	7.09	-21.72	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
500-53190-G-2	12/17/2012	10:08 PM	19.84	7.38	-38.81	.00	306.87	306.87	.00	.00	.00	7.67	-1.00	-1.00	-1.00
500-53190-G-3	12/17/2012	10:14 PM	19.63	7.51	-46.02	.00	315.46	315.46	.00	.00	.00	7.89	-1.00	-1.00	-1.00
500-53190-G-5	12/17/2012	10:19 PM	20.12	7.68	-56.15	.00	306.83	306.83	.00	.00	.00	7.67	-1.00	-1.00	-1.00

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173256 (continued)

CM12-1811

Run Number 363 **Order Number** 20121217-1

SampleID	RunDate	RunTime	Temp	pH	pH (mV)	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	EP @ 8.3 (ml)	EP @ 4.5 (ml)	EP @ 4.2 (ml)	F-ppm	F (mV)
MB-2	12/17/2012	10:24 PM	20.58	5.85	51.02	.00	.06	.06	.00	.00	.00	.09	.18	-1.00	-1.00
LCS-2	12/17/2012	10:30 PM	21.18	10.93	-246.21	95.71	104.36	.00	17.30	87.06	2.39	2.61	-1.00	-1.00	-1.00
500-53190-G-8	12/17/2012	10:35 PM	21.57	7.49	-44.92	.00	325.55	325.55	.00	.00	.00	8.14	-1.00	-1.00	-1.00
500-53190-G-9	12/17/2012	10:42 PM	20.73	7.49	-45.28	.00	334.13	334.13	.00	.00	.00	8.35	-1.00	-1.00	-1.00
500-53190-G-11	12/17/2012	10:47 PM	20.18	7.33	-35.76	.00	382.26	382.26	.00	.00	.00	9.56	-1.00	-1.00	-1.00
500-53190-G-12	12/17/2012	10:52 PM	20.29	7.43	-41.74	.00	282.36	282.36	.00	.00	.00	7.06	-1.00	-1.00	-1.00
500-53190-G-13	12/17/2012	10:58 PM	20.41	7.59	-51.02	.00	300.72	300.72	.00	.00	.00	7.52	-1.00	-1.00	-1.00
PHC-4	12/17/2012	11:12 PM	20.55	7.07	-20.01	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
500-53190-G-14	12/17/2012	11:18 PM	21.58	7.75	-60.18	.00	369.69	369.69	.00	.00	.00	9.24	-1.00	-1.00	-1.00
500-53190-G-15	12/17/2012	11:23 PM	21.27	8.02	-76.41	.00	157.43	157.43	.00	.00	.00	3.94	-1.00	-1.00	-1.00
500-53194-I-1	12/17/2012	11:30 PM	20.92	7.64	-53.71	.00	583.47	583.47	.00	.00	.00	14.59	-1.00	-1.00	-1.00
500-53316-E-21	12/17/2012	11:36 PM	21.09	7.51	-46.02	.00	388.07	388.07	.00	.00	.00	9.70	-1.00	-1.00	-1.00
500-53316-E-22	12/17/2012	11:42 PM	20.74	8.23	-88.13	.00	386.63	386.63	.00	.00	.00	9.67	-1.00	-1.00	-1.00
500-53164-I-1	12/17/2012	11:48 PM	20.85	7.57	-49.80	.00	414.26	414.26	.00	.00	.00	10.36	-1.00	-1.00	-1.00
500-53164-I-2	12/17/2012	11:54 PM	21.47	7.91	-69.70	.00	410.10	410.10	.00	.00	.00	10.25	-1.00	-1.00	-1.00
500-53164-I-3	12/17/2012	11:59 PM	21.56	8.21	-87.40	.00	351.41	351.41	.00	.00	.00	8.79	-1.00	-1.00	-1.00
500-53164-I-3 DU	12/18/2012	12:06 AM	21.85	8.19	-85.93	.00	354.89	354.89	.00	.00	.00	8.87	-1.00	-1.00	-1.00
500-53164-I-4	12/18/2012	12:11 AM	21.86	7.84	-65.55	.00	397.31	397.31	.00	.00	.00	9.93	-1.00	-1.00	-1.00
PHC-5	12/18/2012	12:25 AM	21.58	7.05	-19.16	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00
500-53164-I-5	12/18/2012	12:31 AM	21.80	7.91	-69.58	.00	154.80	154.80	.00	.00	.00	3.87	-1.00	-1.00	-1.00
500-53234-I-1	12/18/2012	12:37 AM	21.67	9.47	-161.13	30.22	60.20	.00	59.96	.24	.76	1.50	-1.00	-1.00	-1.00
500-53234-I-2	12/18/2012	12:41 AM	21.44	9.15	-142.33	36.86	120.41	46.69	73.72	.00	.92	3.01	-1.00	-1.00	-1.00
500-53234-I-3	12/18/2012	12:47 AM	21.87	7.95	-72.38	.00	286.89	286.89	.00	.00	.00	7.17	-1.00	-1.00	-1.00
500-53234-I-4	12/18/2012	12:54 AM	22.49	8.08	-79.71	.00	652.81	652.81	.00	.00	.00	16.32	-1.00	-1.00	-1.00
PHC-6	12/18/2012	12:58 AM	21.85	4.08	155.76	.00	.00	.00	.00	.00	.00	.00	.00	-1.00	-1.00

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PC-Titrate For Windows V3

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CM12-18-12

Exported Equation Results

Sample ID	pH	pHmV	stbT	Temp
PHC-1	6.997	-16.230	92.696	21.845
MB	6.041	41.380	92.696	20.619
LCS	11.023	-251.700	92.695	20.895
500-53094-A-43	7.584	-50.530	92.696	20.177
500-53174-D-1	7.161	-25.750	92.805	18.077
500-53174-D-2	7.560	-48.820	92.696	18.165
500-53174-D-3	7.261	-31.490	92.696	18.253
500-53174-D-4	7.441	-41.990	92.696	18.906
500-53174-D-5	7.365	-37.710	92.696	19.324
500-53174-D-6	7.990	-73.730	92.727	18.479
500-53174-D-7	7.230	-29.780	92.696	18.203
PHC-2	7.149	-24.780	92.695	19.258
500-53174-D-8	7.323	-35.030	92.696	19.535
500-53174-D-9	8.037	-77.020	93.007	20.743
500-53151-I-1	7.699	-57.250	92.712	20.743
500-53151-I-2	7.898	-68.600	92.696	19.945
500-53151-I-3	7.790	-62.370	92.695	19.562
500-53151-I-4	7.007	-16.720	92.695	19.007
500-53151-I-5	7.632	-53.220	92.696	19.033
500-53152-I-1	7.986	-73.850	92.694	19.681
500-53190-G-1	7.483	-44.670	92.695	20.605
500-53190-G-1 DU	7.385	-38.810	92.694	20.508
PHC-3	7.095	-21.720	92.696	19.931
500-53190-G-2	7.383	-38.810	92.713	19.839
500-53190-G-3	7.509	-46.020	92.695	19.628
500-53190-G-5	7.682	-56.150	92.695	20.122
MB-2	5.853	51.020	92.696	20.577
LCS-2	10.925	-246.210	92.696	21.179
500-53190-G-8	7.487	-44.920	92.695	21.570
500-53190-G-9	7.495	-45.280	92.696	20.729
500-53190-G-11	7.333	-35.760	92.696	20.177
500-53190-G-12	7.435	-41.740	92.759	20.287
500-53190-G-13	7.593	-51.020	92.899	20.412
PHC-4	7.065	-20.010	92.696	20.550
500-53190-G-14	7.749	-60.180	92.695	21.585
500-53190-G-15	8.023	-76.410	92.696	21.266
500-53194-I-1	7.636	-53.710	92.696	20.922
500-53316-E-21	7.507	-46.020	92.758	21.092
500-53316-E-22	8.229	-88.130	92.837	20.743
500-53164-I-1	7.572	-49.800	92.742	20.853
500-53164-I-2	7.910	-69.700	92.695	21.469
500-53164-I-3	8.211	-87.400	92.697	21.556
500-53164-I-3 DU	8.189	-85.930	92.695	21.845
500-53164-I-4	7.838	-65.550	92.695	21.860
PHC-5	7.051	-19.160	92.914	21.585
500-53164-I-5	7.906	-69.580	92.697	21.802

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PC-Titrate For Windows V3

Exported Equation Results

Sample ID	pH	pHmV	stbT	Temp
500-53234-I-1	9.470	-161.130	91.684	21.672
500-53234-I-2	9.151	-142.330	48.705	21.440
500-53234-I-3	7.952	-72.380	92.695	21.874
500-53234-I-4	8.078	-79.710	92.695	22.492
PHC-6	4.076	155.760	92.695	21.845

Date: 12/18/2012

173256
CM 12-18-N

PC-Titrate For Windows V3

Exported Equation Results

Sample ID	ep1	ep2	svol	tcon	talk	palk
PHC-1	0.000	0.000	25.000	0.020	0.000	0.000
MB	0.000	0.039	25.000	0.020	1.560	0.000
LCS	2.375	2.547	25.000	0.020	101.868	95.000
500-53094-A-43	0.000	9.791	25.000	0.020	391.626	0.000
500-53174-D-1	0.000	6.212	25.000	0.020	248.469	0.000
500-53174-D-2	0.000	9.782	25.000	0.020	391.291	0.000
500-53174-D-3	0.000	21.013	25.000	0.020	840.516	0.000
500-53174-D-4	0.000	16.132	25.000	0.020	645.283	0.000
500-53174-D-5	0.000	14.548	25.000	0.020	581.929	0.000
500-53174-D-6	0.000	10.746	25.000	0.020	429.848	0.000
500-53174-D-7	0.000	12.696	25.000	0.020	507.847	0.000
PHC-2	0.000	0.000	25.000	0.020	0.000	0.000
500-53174-D-8	0.000	27.455	25.000	0.020	1098.183	0.000
500-53174-D-9	0.000	2.182	25.000	0.020	87.299	0.000
500-53151-I-1	0.000	3.729	25.000	0.020	149.162	0.000
500-53151-I-2	0.000	2.522	25.000	0.020	100.866	0.000
500-53151-I-3	0.000	5.240	25.000	0.020	209.592	0.000
500-53151-I-4	0.000	7.690	25.000	0.020	307.609	0.000
500-53151-I-5	0.000	3.702	25.000	0.020	148.077	0.000
500-53152-I-1	0.000	5.427	25.000	0.020	217.061	0.000
500-53190-G-1	0.000	7.671	25.000	0.020	306.840	0.000
500-53190-G-1 DU	0.000	7.833	25.000	0.020	313.335	0.000
PHC-3	0.000	0.000	25.000	0.020	0.000	0.000
500-53190-G-2	0.000	7.672	25.000	0.020	306.874	0.000
500-53190-G-3	0.000	7.887	25.000	0.020	315.463	0.000
500-53190-G-5	0.000	7.671	25.000	0.020	306.831	0.000
MB-2	0.000	0.092	25.000	0.020	3.697	0.000
LCS-2	2.393	2.609	25.000	0.020	104.357	95.708
500-53190-G-8	0.000	8.139	25.000	0.020	325.551	0.000
500-53190-G-9	0.000	8.353	25.000	0.020	334.127	0.000
500-53190-G-11	0.000	9.556	25.000	0.020	382.258	0.000
500-53190-G-12	0.000	7.059	25.000	0.020	282.362	0.000
500-53190-G-13	0.000	7.518	25.000	0.020	300.717	0.000
PHC-4	0.000	0.000	25.000	0.020	0.000	0.000
500-53190-G-14	0.000	9.242	25.000	0.020	369.693	0.000
500-53190-G-15	0.000	3.936	25.000	0.020	157.426	0.000
500-53194-I-1	0.000	14.587	25.000	0.020	583.469	0.000
500-53316-E-21	0.000	9.702	25.000	0.020	388.072	0.000
500-53316-E-22	0.000	9.666	25.000	0.020	386.629	0.000
500-53164-I-1	0.000	10.357	25.000	0.020	414.263	0.000
500-53164-I-2	0.000	10.253	25.000	0.020	410.103	0.000
500-53164-I-3	0.000	8.785	25.000	0.020	351.405	0.000
500-53164-I-3 DU	0.000	8.872	25.000	0.020	354.890	0.000
500-53164-I-4	0.000	9.933	25.000	0.020	397.315	0.000
PHC-5	0.000	0.000	25.000	0.020	0.000	0.000
500-53164-I-5	0.000	3.870	25.000	0.020	154.799	0.000

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PC-Titrate For Windows V3

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Exported Equation Results

Sample ID	ep1	ep2	svol	tcon	talk	palk
500-53234-I-1	0.755	1.505	25.000	0.020	60.199	30.217
500-53234-I-2	0.921	3.010	25.000	0.020	120.410	36.860
500-53234-I-3	0.000	7.172	25.000	0.020	286.895	0.000
500-53234-I-4	0.000	16.320	25.000	0.020	652.806	0.000
PHC-6	0.000	0.000	25.000	0.020	0.000	0.000

Date: 12/18/2012

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PC-Titrate For Windows V3

Exported Equation Results

Sample ID	ep1	ep2a	ep2b	svol	tcon	palk	talk
PHC-1	0.000	0.000	0.000	25.000	0.020	0.000	0.000
MB	0.000	0.039	0.075	25.000	0.020	0.000	0.119
PHC-2	0.000	0.000	0.000	25.000	0.020	0.000	0.000
PHC-3	0.000	0.000	0.000	25.000	0.020	0.000	0.000
MB-2	0.000	0.092	0.183	25.000	0.020	0.000	0.061
PHC-4	0.000	0.000	0.000	25.000	0.020	0.000	0.000
PHC-5	0.000	0.000	0.000	25.000	0.020	0.000	0.000
PHC-6	0.000	0.000	0.000	25.000	0.020	0.000	0.000

Date: 12/18/2012

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PC-Titrate For Windows V3

Exported Equation Results

Sample ID	pH	palk	talk	bcarb	carb	hydrx	flrd	Temp	ep1	ep2a	ep2b	FmV	mV
PHC-1	6.997	0.000	0.000	0.000	0.000	0.000	-1.000	21.845	0.000	0.000	0.000	-1.000	-16.230
MB	6.041	0.000	0.119	0.119	0.000	0.000	-1.000	20.619	0.000	0.039	0.075	-1.000	41.380
LCS	11.023	95.000	101.868	0.000	13.736	88.132	-1.000	20.895	2.375	2.547	-1.000	-1.000	-251.700
500-53094-A-43	7.584	0.000	391.626	391.626	0.000	0.000	-1.000	20.177	0.000	9.791	-1.000	-1.000	-50.530
500-53174-D-1	7.161	0.000	248.469	248.469	0.000	0.000	-1.000	18.077	0.000	6.212	-1.000	-1.000	-25.750
500-53174-D-2	7.560	0.000	391.291	391.291	0.000	0.000	-1.000	18.165	0.000	9.782	-1.000	-1.000	-48.820
500-53174-D-3	7.261	0.000	840.516	840.516	0.000	0.000	-1.000	18.253	0.000	21.013	-1.000	-1.000	-31.490
500-53174-D-4	7.441	0.000	645.283	645.283	0.000	0.000	-1.000	18.906	0.000	16.132	-1.000	-1.000	-41.990
500-53174-D-5	7.365	0.000	581.929	581.929	0.000	0.000	-1.000	19.324	0.000	14.548	-1.000	-1.000	-37.710
500-53174-D-6	7.990	0.000	429.848	429.848	0.000	0.000	-1.000	18.479	0.000	10.746	-1.000	-1.000	-73.730
500-53174-D-7	7.230	0.000	507.847	507.847	0.000	0.000	-1.000	18.203	0.000	12.696	-1.000	-1.000	-29.780
PHC-2	7.149	0.000	0.000	0.000	0.000	0.000	-1.000	19.258	0.000	0.000	0.000	-1.000	-24.780
500-53174-D-8	7.323	0.000	1098.183	1098.183	0.000	0.000	-1.000	19.535	0.000	27.455	-1.000	-1.000	-35.030
500-53174-D-9	8.037	0.000	87.299	87.299	0.000	0.000	-1.000	20.743	0.000	2.182	-1.000	-1.000	-77.020
500-53151-I-1	7.699	0.000	149.162	149.162	0.000	0.000	-1.000	20.743	0.000	3.729	-1.000	-1.000	-57.250
500-53151-I-2	7.898	0.000	100.866	100.866	0.000	0.000	-1.000	19.945	0.000	2.522	-1.000	-1.000	-68.600
500-53151-I-3	7.790	0.000	209.592	209.592	0.000	0.000	-1.000	19.562	0.000	5.240	-1.000	-1.000	-62.370
500-53151-I-4	7.007	0.000	307.609	307.609	0.000	0.000	-1.000	19.007	0.000	7.690	-1.000	-1.000	-16.720
500-53151-I-5	7.632	0.000	148.077	148.077	0.000	0.000	-1.000	19.033	0.000	3.702	-1.000	-1.000	-53.220
500-53152-I-1	7.986	0.000	217.061	217.061	0.000	0.000	-1.000	19.681	0.000	5.427	-1.000	-1.000	-73.850
500-53190-G-1	7.483	0.000	306.840	306.840	0.000	0.000	-1.000	20.605	0.000	7.671	-1.000	-1.000	-44.670
500-53190-G-1 DU	7.385	0.000	313.335	313.335	0.000	0.000	-1.000	20.508	0.000	7.833	-1.000	-1.000	-38.810
PHC-3	7.095	0.000	0.000	0.000	0.000	0.000	-1.000	19.931	0.000	0.000	0.000	-1.000	-21.720
500-53190-G-2	7.383	0.000	306.874	306.874	0.000	0.000	-1.000	19.839	0.000	7.672	-1.000	-1.000	-38.810
500-53190-G-3	7.509	0.000	315.463	315.463	0.000	0.000	-1.000	19.628	0.000	7.887	-1.000	-1.000	-46.020
500-53190-G-5	7.682	0.000	306.831	306.831	0.000	0.000	-1.000	20.122	0.000	7.671	-1.000	-1.000	-56.150
MB-2	5.853	0.000	0.061	0.061	0.000	0.000	-1.000	20.577	0.000	0.092	0.183	-1.000	51.020
LCS-2	10.925	95.708	104.357	0.000	17.298	87.059	-1.000	21.179	2.393	2.609	-1.000	-1.000	-246.210
500-53190-G-8	7.487	0.000	325.551	325.551	0.000	0.000	-1.000	21.570	0.000	8.139	-1.000	-1.000	-44.920
500-53190-G-9	7.495	0.000	334.127	334.127	0.000	0.000	-1.000	20.729	0.000	8.353	-1.000	-1.000	-45.280
500-53190-G-11	7.333	0.000	382.258	382.258	0.000	0.000	-1.000	20.177	0.000	9.556	-1.000	-1.000	-35.760
500-53190-G-12	7.435	0.000	282.362	282.362	0.000	0.000	-1.000	20.287	0.000	7.059	-1.000	-1.000	-41.740
500-53190-G-13	7.593	0.000	300.717	300.717	0.000	0.000	-1.000	20.412	0.000	7.518	-1.000	-1.000	-51.020
PHC-4	7.065	0.000	0.000	0.000	0.000	0.000	-1.000	20.550	0.000	0.000	0.000	-1.000	-20.010
500-53190-G-14	7.749	0.000	369.693	369.693	0.000	0.000	-1.000	21.585	0.000	9.242	-1.000	-1.000	-60.180
500-53190-G-15	8.023	0.000	157.426	157.426	0.000	0.000	-1.000	21.266	0.000	3.936	-1.000	-1.000	-76.410
500-53194-I-1	7.636	0.000	583.469	583.469	0.000	0.000	-1.000	20.922	0.000	14.587	-1.000	-1.000	-53.710
500-53316-E-21	7.507	0.000	388.072	388.072	0.000	0.000	-1.000	21.092	0.000	9.702	-1.000	-1.000	-46.020
500-53316-E-22	8.229	0.000	386.629	386.629	0.000	0.000	-1.000	20.743	0.000	9.666	-1.000	-1.000	-88.130
500-53164-I-1	7.572	0.000	414.263	414.263	0.000	0.000	-1.000	20.853	0.000	10.357	-1.000	-1.000	-49.800
500-53164-I-2	7.910	0.000	410.103	410.103	0.000	0.000	-1.000	21.469	0.000	10.253	-1.000	-1.000	-69.700
500-53164-I-3	8.211	0.000	351.405	351.405	0.000	0.000	-1.000	21.556	0.000	8.785	-1.000	-1.000	-87.400
500-53164-I-3 DU	8.189	0.000	354.890	354.890	0.000	0.000	-1.000	21.845	0.000	8.872	-1.000	-1.000	-85.930
500-53164-I-4	7.838	0.000	397.315	397.315	0.000	0.000	-1.000	21.860	0.000	9.933	-1.000	-1.000	-65.550
PHC-5	7.051	0.000	0.000	0.000	0.000	0.000	-1.000	21.585	0.000	0.000	0.000	-1.000	-19.160
500-53164-I-5	7.906	0.000	154.799	154.799	0.000	0.000	-1.000	21.802	0.000	3.870	-1.000	-1.000	-69.580

Date: 12/18/2012

173256 (continued)

CM 12-18-12

PC-Titrate For Windows V3

Exported Equation Results

Sample ID	pH	palk	talk	bcarb	carb	hydrx	flrd	Temp	ep1	ep2a	ep2b	FmV	mV
500-53234-I-1	9.470	30.217	60.199	0.000	59.963	0.236	-1.000	21.672	0.755	1.505	-1.000	-1.000	-161.130
500-53234-I-2	9.151	36.860	120.410	46.691	73.719	0.000	-1.000	21.440	0.921	3.010	-1.000	-1.000	-142.330
500-53234-I-3	7.952	0.000	286.895	286.895	0.000	0.000	-1.000	21.874	0.000	7.172	-1.000	-1.000	-72.380
500-53234-I-4	8.078	0.000	652.806	652.806	0.000	0.000	-1.000	22.492	0.000	16.320	-1.000	-1.000	-79.710
PHC-6	4.076	0.000	0.000	0.000	0.000	0.000	-1.000	21.845	0.000	0.000	0.000	-1.000	155.760

Date: 12/18/2012

General Chemistry Worksheet

Batch Number: 500-173256
Method: SM 2320B
Analyst: Moore, Colleen L

Date Open: Dec 17 2012 7:37PM
Batch End: Dec 18 2012 12:58PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Calculation Message	Final weight/volume of sample	WCSTAK_00006
PHC~500-173256/1					InitialAmount is blank		
MB~500-173256/2		2320B			InitialAmount is blank		
LCS~500-173256/3		2320B		50 mL	BuretStart2 is blank	50 mL	1000 uL
500-53094-A-43	MW-30 109	2320B	D		InitialAmount is blank		
500-53174-D-1	W-1 (101)	2320B	D		InitialAmount is blank		
500-53174-D-2	W-2 (102)	2320B	D		InitialAmount is blank		
500-53174-D-3	W-3 (103)	2320B	D		InitialAmount is blank		
500-53174-D-4	W-4 (104)	2320B	D		InitialAmount is blank		
500-53174-D-5	W-4A (105)	2320B	D		InitialAmount is blank		
500-53174-D-6	W-5 (106)	2320B	D		InitialAmount is blank		
500-53174-D-7	W-6 (108)	2320B	D		InitialAmount is blank		
PHC~500-173256/12					InitialAmount is blank		
500-53174-D-8	W-7R (111)	2320B	D		InitialAmount is blank		
500-53174-D-9	W-12 (114)	2320B	D		InitialAmount is blank		
500-53151-I-1	MW-15	2320B	T		InitialAmount is blank		
500-53151-I-2	MW-9S	2320B	T		InitialAmount is blank		
500-53151-I-3	MW-14S	2320B	T		InitialAmount is blank		
500-53151-I-4	MW-4i	2320B	T		InitialAmount is blank		
500-53151-I-5	MW-4S	2320B	T		InitialAmount is blank		
500-53152-I-1	MW-17i	2320B	T		InitialAmount is blank		
500-53190-G-1	MW-7 12-11-12	2320B	T		InitialAmount is blank		
500-53190-G-1~DU		2320B	T		InitialAmount is blank		
PHC~500-173256/23					InitialAmount is blank		
500-53190-G-2	DUP-1	2320B	T		InitialAmount is blank		
500-53190-G-3	MW-9 12-11-12	2320B	T		InitialAmount is blank		

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General Chemistry Worksheet

Batch Number: 500-173256
Method: SM 2320B
Analyst: Moore, Colleen L

Date Open: Dec 17 2012 7:37PM
Batch End: Dec 18 2012 12:58PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Calculation Message	Final weight/volume of sample	WCSTAK_00006
500-53190-G-5	MW-8 12-11-12	2320B	T		InitialAmount is blank		
					InitialAmount is blank		
MB~500-173256/28		2320B			InitialAmount is blank		
LCS~500-173256/29		2320B		50 mL	BuretStart2 is blank	50 mL	1000 uL
500-53190-G-8	MW-11 12-12-12	2320B	T		InitialAmount is blank		
500-53190-G-9	MW-11B 12-12-12	2320B	T		InitialAmount is blank		
500-53190-G-11	MW-6 12-11-12	2320B	T		InitialAmount is blank		
500-53190-G-12	MW-5 12-11-12	2320B	T		InitialAmount is blank		
500-53190-G-13	MW-1 12-11-12	2320B	T		InitialAmount is blank		
PHC~500-173256/35					InitialAmount is blank		
500-53190-G-14	MW-2 12-11-12	2320B	T		InitialAmount is blank		
500-53190-G-15	MW-3 12-12-12	2320B	T		InitialAmount is blank		
500-53194-I-1	MW-12	2320B	T		InitialAmount is blank		
500-53316-E-21	RO-ASW-IN	2320B	T		InitialAmount is blank		
500-53316-E-22	RO-ASW-EFF	2320B	T		InitialAmount is blank		
500-53164-I-1	VLF-MW-6	2320B	T		InitialAmount is blank		
500-53164-I-2	VLF-MW-6A	2320B	T		InitialAmount is blank		
500-53164-I-3	VLF-MW-7	2320B	T		InitialAmount is blank		
500-53164-I-3~DU		2320B	T		InitialAmount is blank		
500-53164-I-4	VLF-MW-5	2320B	T		InitialAmount is blank		
PHC~500-173256/46					InitialAmount is blank		
500-53164-I-5	VLF-MW-2	2320B	T		InitialAmount is blank		
500-53234-I-1	VLF-MW-3	2320B	T		InitialAmount is blank		
500-53234-I-2	VLF-MW-4	2320B	T		InitialAmount is blank		
500-53234-I-3	OLD-MW-4	2320B	T		InitialAmount is blank		

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General Chemistry Worksheet

Batch Number: 500-173256
Method: SM 2320B
Analyst: Moore, Colleen L

Date Open: Dec 17 2012 7:37PM
Batch End: Dec 18 2012 12:58PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Calculation Message	Final weight/volume of sample	WCSTAK_00006
500-53234-I-4	OLD-MW-9	2320B	T		InitialAmount is blank		
PHC~500-173256/52					InitialAmount is blank		

First Start time:	See Raw Data
First End time:	See Raw Data
Nominal Amount Used:	50 mL
Normality of first Titrant:	0.02 N
Lot # of hydrochloric acid:	0.02N H2SO4_00004
HCl Vendor:	JT Baker
Sulfuric Acid Lot Number:	NA
Sulfuric Acid Vendor:	Purchased
pH Buffer 1 ID:	pH4RED_00026
pH Buffer 2 ID:	pH7YELLOW_00021
pH Buffer 3 ID:	pH7BLUE_00016
pH Buffer 4 ID:	pH7CLEAR_00036
pH Buffer 5 ID:	NA
pH Buffer 6 ID:	NA
Probe ID:	VWR Symphony
Pipette ID:	NA

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01/03/2013

TestAmerica Chicago

Total Organic/Inorganic Carbon

Method:

EPA 415.1 ✓
EPA 415.1, mod. for IC _____
SW846 9060 _____ 9060A _____
SM5310C-00 _____

Analytical Batch #: 173374
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 11/20/12

Calculations:
Waters: mg/L = mg/L X dilution

Standards Traceability:
Stock I: Calibration and Curve; CCV: WCSTTC1-00058

Stock II: LCS, ICV, Matrix spikes MRL, DLCK: WCSTTC2-00072

Stock II: TIC sparger check: WSTTIC2-000

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	20 mg/L	5.0	500	200
CCV (alt.)	10 mg/L	10	1000	Dilute to 200 mL
MS/MSD	10 mg/L	15	1500	"
TIC check	10 mg/L	20	2000	"
MRL	___ mg/L	30	3000	"
DLCK	___ mg/L	40	4000	"

Comments:

Analyst: [illegible] Date of analysis: 12/18/12

Reviewer: [illegible] Date: 12·19·12

CHI-22-12-105/H-11/12

Calibration Report Print Date/Time: 2012/12/19 6:44:41

Cal. Curve ID: TOCCURVE
Created: 12/05/2012 06:36
Calibration Factor (m): 7.974e+05
Y Intercept (b): 2493467
r-squared: 0.99534

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
0	6978916	0.000	5.625	Max Integrati	11/20/2012 13:44
1	6445084	4.000	4.956		11/20/2012 13:56
5	18033688	20.000	19.489		11/20/2012 14:09
10	31141898	40.000	35.928		11/20/2012 14:24
15	45973256	60.000	54.528		11/20/2012 14:38
20	66865056	80.000	80.728		11/20/2012 14:54
40	132264488	160.000	162.746	Max Integrati	11/20/2012 15:26

Multiple Analysis Report Print Date/Time: 2012/12/19 6:44:36

Sample ID	Result	Std. Dev.	RSD	Mode	ALT	Method ID	Sample Type	Vial	Timestamp	Message
TIC-STD	0.8676			TOC		TOC Range 0.1 - 20 p	Sample	1	12/18/2012 10:25	Max Integration →
→ Time Reached										
ICV	19.2658			TOC		TOC Range 0.1 - 20 p	Sample	2	12/18/2012 10:41	
ICB	0.0864			TOC		TOC Range 0.1 - 20 p	Sample	3	12/18/2012 10:51	
MB.....	0.0116...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	4..	12/18/2012 11:02.	
MB	0.0047			TOC		TOC Range 0.1 - 20 p	Sample	4	12/18/2012 11:12	
LCS	9.4898			TOC		TOC Range 0.1 - 20 p	Sample	5	12/18/2012 11:25	
LCS.....	9.4937...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	5..	12/18/2012 11:39.	
500-53117-e-2 1/2	38.6130			TOC		TOC Range 0.1 - 20 p	Sample	6	12/18/2012 11:55	Over-range
500-53117-e-2 1/2	38.5207			TOC		TOC Range 0.1 - 20 p	Sample	6	12/18/2012 12:11	Max Integration →
→ Time Reached										
500-53117-e-7 1/2.....	18.9297...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	7..	12/18/2012 12:26.	
500-53117-e-7 1/2	18.9425			TOC		TOC Range 0.1 - 20 p	Sample	7	12/18/2012 12:41	
500-53117-e-8 1/2	40.6563			TOC		TOC Range 0.1 - 20 p	Sample	8	12/18/2012 12:57	Max Integration →
→ Time Reached										
500-53117-e-8 1/2.....	40.6316...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	8..	12/18/2012 13:14.	Max Integration →
→ Time Reached										
500-53117-e-9 1/2	39.7045			TOC		TOC Range 0.1 - 20 p	Sample	9	12/18/2012 13:30	Max Integration →
→ Time Reached										
500-53117-e-9 1/2	39.5201			TOC		TOC Range 0.1 - 20 p	Sample	9	12/18/2012 13:46	Max Integration →
→ Time Reached										
500-53117-e-10 1/2.....	21.3144...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	10..	12/18/2012 14:01.	
500-53117-e-10 1/2	21.1977			TOC		TOC Range 0.1 - 20 p	Sample	10	12/18/2012 14:16	
500-53151-e-4 1/2	45.5335			TOC		TOC Range 0.1 - 20 p	Sample	11	12/18/2012 14:32	Max Integration →
→ Time Reached										
500-53151-e-4 1/2.....	45.8863...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	11..	12/18/2012 14:48.	Max Integration →
→ Time Reached										
500-53164-d-1	3.9896			TOC		TOC Range 0.1 - 20 p	Sample	12	12/18/2012 15:01	
500-53164-d-1	3.7623			TOC		TOC Range 0.1 - 20 p	Sample	12	12/18/2012 15:13	
500-53164-f-2.....	3.7621...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	13..	12/18/2012 15:26.	
500-53164-f-2	3.7719			TOC		TOC Range 0.1 - 20 p	Sample	13	12/18/2012 15:39	
CCV	9.6269			TOC		TOC Range 0.1 - 20 p	Sample	14	12/18/2012 15:52	
CCB.....	0.0261...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	15..	12/18/2012 16:03.	
500-53164-d-3	2.9361			TOC		TOC Range 0.1 - 20 p	Sample	16	12/18/2012 16:15	
500-53164-d-3	2.9579			TOC		TOC Range 0.1 - 20 p	Sample	16	12/18/2012 16:27	
500-53164-d-3 MS.....	13.8093...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	17..	12/18/2012 16:42.	
500-53164-d-3 MSD	13.8093			TOC		TOC Range 0.1 - 20 p	Sample	17	12/18/2012 16:56	
500-53164-d-4	1.6739			TOC		TOC Range 0.1 - 20 p	Sample	18	12/18/2012 17:08	
500-53164-d-4.....	1.6554...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	18..	12/18/2012 17:19.	
500-53164-d-5	5.6651			TOC		TOC Range 0.1 - 20 p	Sample	19	12/18/2012 17:35	
500-53164-d-5	5.6992			TOC		TOC Range 0.1 - 20 p	Sample	19	12/18/2012 17:51	
CCV.....	9.8772...	..	...TOC	..		TOC Range 0.1 - 20 p...	Sample ..	20..	12/18/2012 18:05.	
CCB	0.0567			TOC		TOC Range 0.1 - 20 p	Sample	21	12/18/2012 18:15	

Detailed Analysis Report Print Date/Time: 2012/12/19 6:44:36

Sample ID: TIC-STD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 10:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8676	3.4706	3677494	0.752	1.876	600

Last Message: Max Integration Time Reached

Sample ID: ICV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 10:41
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19.2658	77.0631	62359056	1.280	2.279	581

Sample ID: ICB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 10:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0864	0.3458	1185812	1.309	2.308	254

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 11:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0116	0.0465	947176	1.202	2.202	242

Sample ID: MB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 11:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0047	0.0190	925219	1.216	2.214	240

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 11:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.4898	37.9593	31178236	1.199	2.196	447

Sample ID: LCS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 11:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

1	9.4937	37.9749	31190684	1.292	2.291	440

Sample ID: 500-53117-e-2 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 11:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	38.6130	154.4522	124067912	1.288	2.661	600

Last Message: Over-range

KD 12/19/12

Sample ID: 500-53117-e-2 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 12:11
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	38.5207	154.0829	123773472	1.427	2.693	600

Last Message: Max Integration Time Reached

Sample ID: 500-53117-e-7 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 12:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18.9297	75.7188	61287160	1.400	2.399	542

Sample ID: 500-53117-e-7 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 12:41
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18.9425	75.7699	61327832	1.342	2.339	539

Sample ID: 500-53117-e-8 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 12:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	40.6563	162.6253	130585008	1.288	2.658	600

Last Message: Max Integration Time Reached

over range
KD 12/19/12

Sample ID: 500-53117-e-8 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 13:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	40.6316	162.5265	130506280	1.368	2.723	600

Last Message: Max Integration Time Reached

Sample ID: 500-53117-e-9 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 13:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	39.7045	158.8179	127549048	1.334	2.715	600

Last Message: Max Integration Time Reached AD KD 12/19/12

Sample ID: 500-53117-e-9 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 13:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	39.5201	158.0804	126960984	1.349	2.605	600

Last Message: Max Integration Time Reached

Sample ID: 500-53117-e-10 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 14:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	21.3144	85.2577	68893328	1.315	2.314	528

Sample ID: 500-53117-e-10 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 14:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	21.1977	84.7906	68520848	1.242	2.241	545

Sample ID: 500-53151-e-4 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 14:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	45.5335	182.1339	146140896	1.244	2.918	600

Last Message: Max Integration Time Reached

Sample ID: 500-53151-e-4 1/2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 14:48
Sample Type: Sample

Over range KD 12/19/12

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	45.8863	183.5453	147266368	1.336	2.992	600

Last Message: Max Integration Time Reached

Sample ID: 500-53164-d-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 15:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.9896	15.9586	13635232	1.401	2.401	392

Sample ID: 500-53164-d-1
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 15:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7623	15.0491	12909986	1.203	2.202	390

Sample ID: 500-53164-f-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 15:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7621	15.0486	12909596	1.179	2.178	390

Sample ID: 500-53164-f-2
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 15:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7719	15.0874	12940601	1.138	2.138	395

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 15:52
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.6269	38.5077	31615576	1.144	2.143	447

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 16:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0261	0.1046	993486	1.065	2.064	248

Sample ID: 500-53164-d-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 16:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9361	11.7444	10274915	0.946	1.944	370

Sample ID: 500-53164-d-3
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 16:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9579	11.8318	10344561	1.043	2.043	364

Sample ID: 500-53164-d-3 MS
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 16:42
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.8093	55.2371	44955288	1.084	2.084	504

Sample ID: 500-53164-d-3 MSD
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 16:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.8093	55.2374	44955560	1.142	2.141	497

Sample ID: 500-53164-d-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 17:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6739	6.6954	6248936	1.147	2.147	322

Sample ID: 500-53164-d-4
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 17:19
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.6554	6.6214	6189944	1.014	2.013	329

Sample ID: 500-53164-d-5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 17:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.6651	22.6605	18979240	0.936	1.935	593

Sample ID: 500-53164-d-5
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 17:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.6992	22.7968	19087924	1.016	2.016	572

Sample ID: CCV
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA
Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 18:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	9.8772	39.5089	32413918	0.938	1.938	479

Sample ID: CCB
Method: TOC Range 0.1 - 20 ppm C
Cal. Curve: TOCCURVE
Operator ID: KHONA

Mode: TOC
Filename: 12181010
Timestamp: 12/18/2012 18:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0567	0.2266	1090824	1.042	2.041	248

General Chemistry Worksheet

Batch Number: 500-173374
Method: SM 5310C
Analyst: Deb, Khona

Date Open: Dec 18 2012 10:41AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	WCSTTC1_00058	WCSTTC2_00072
ICV~500-173374/1		5310C		200 mL	200 mL		2000 uL
ICB~500-173374/2		5310C					
MB~500-173374/3		5310C					
LCS~500-173374/4		5310C		200 mL	200 mL		1000 uL
500-53117-E-2	MW-33i	5310C	T				
500-53117-E-7	MW-19i	5310C	T				
500-53117-E-9	MW-24i	5310C	T				
500-53117-E-10	MW-18ps	5310C	T				
500-53164-D-1	VLF-MW-6	5310C	T				
500-53164-F-2	VLF-MW-6A	5310C	T				
CCV~500-173374/11		5310C		200 mL	200 mL	1 mL	
CCB~500-173374/12		5310C					
500-53164-D-3	VLF-MW-7	5310C	T				
500-53164-D-3~MS	VLF-MW-7	5310C	T	40 mL	40 mL		200 uL
500-53164-D-3~MSD	VLF-MW-7	5310C	T	40 mL	40 mL		200 uL
500-53164-D-4	VLF-MW-5	5310C	T				
500-53164-D-5	VLF-MW-2	5310C	T				
CCV~500-173374/18		5310C		200 mL	200 mL	1 mL	
CCB~500-173374/19		5310C					

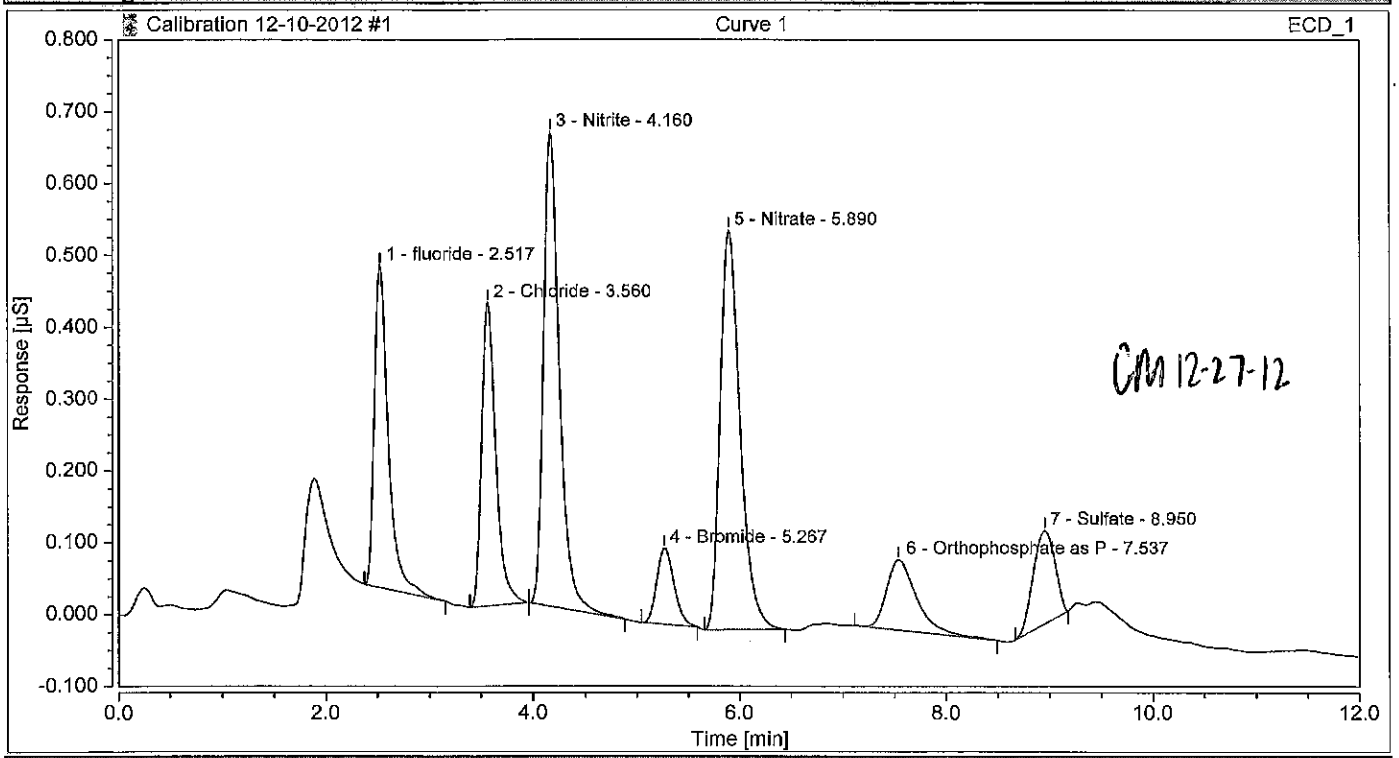
First Start time:	N/A
First End time:	N/A
Lot # of Phosphoric Acid:	21% H3PO4 00015
Sodium Persulfate Reagent ID Number:	Na Persulfate 00022
Pipette ID:	N/A

Chromatogram and Results

Injection Details

Injection Name:	**Curve 1**	*Run Time (min):*	**12.00**
Vial Number:	**RE1**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**01**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**10/Dec/12 14:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

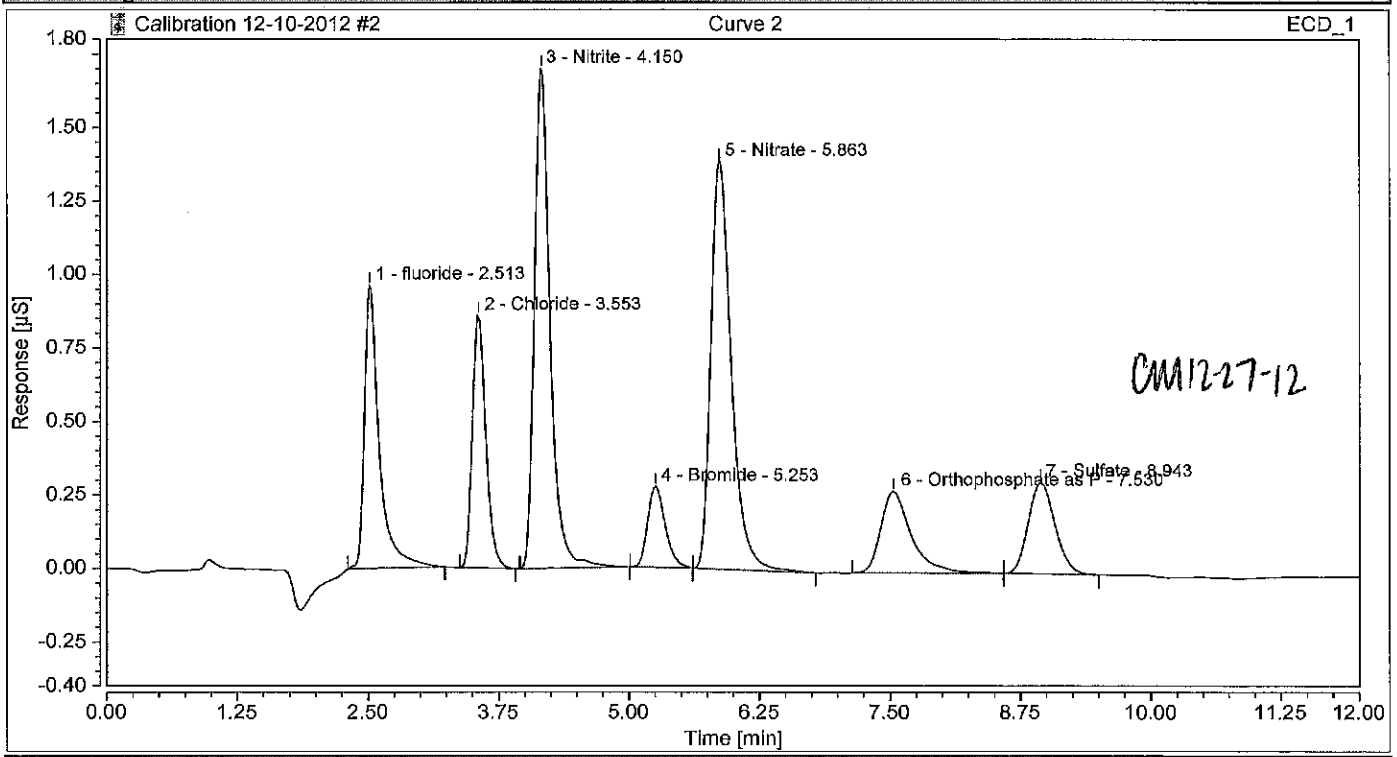
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.070	0.448	15.05	18.51	0.1905
2	Chloride	3.560	0.066	0.422	14.27	17.44	0.2367
3	Nitrite	4.160	0.117	0.660	25.24	27.29	0.1830
4	Bromide	5.267	0.021	0.106	4.43	4.38	0.1887
5	Nitrate	5.890	0.126	0.556	27.03	22.98	0.1886
6	Orthophosphate as P	7.537	0.033	0.098	7.18	4.05	0.1675
7	Sulfate	8.950	0.032	0.130	6.81	5.36	0.1615
Total:			**0.465**	**2.418**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 2**	*Run Time (min):*	**12.00**
Vial Number:	**RE2**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**02**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**10/Dec/12 14:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

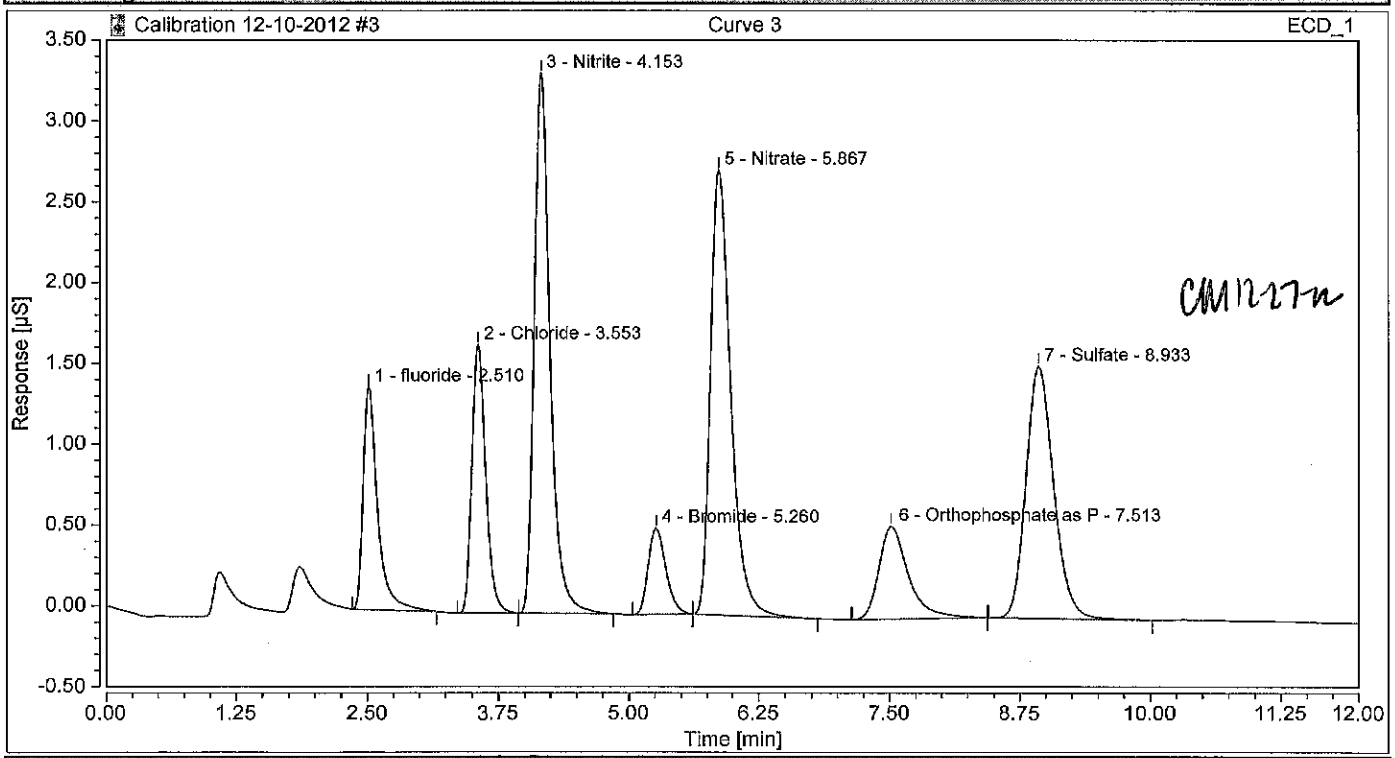
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.159	0.963	13.94	16.68	0.4339
2	Chloride	3.553	0.127	0.859	11.13	14.87	0.4541
3	Nitrite	4.150	0.301	1.700	26.34	29.44	0.4699
4	Bromide	5.253	0.054	0.275	4.74	4.77	0.4970
5	Nitrate	5.863	0.316	1.387	27.64	24.03	0.4745
6	Orthophosphate as P	7.530	0.093	0.278	8.13	4.81	0.4669
7	Sulfate	8.943	0.092	0.312	8.08	5.40	0.4712
Total:			**1.143**	**5.773**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 3**	*Run Time (min):*	**12.00**
Vial Number:	**RE3**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**03**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**10/Dec/12 14:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

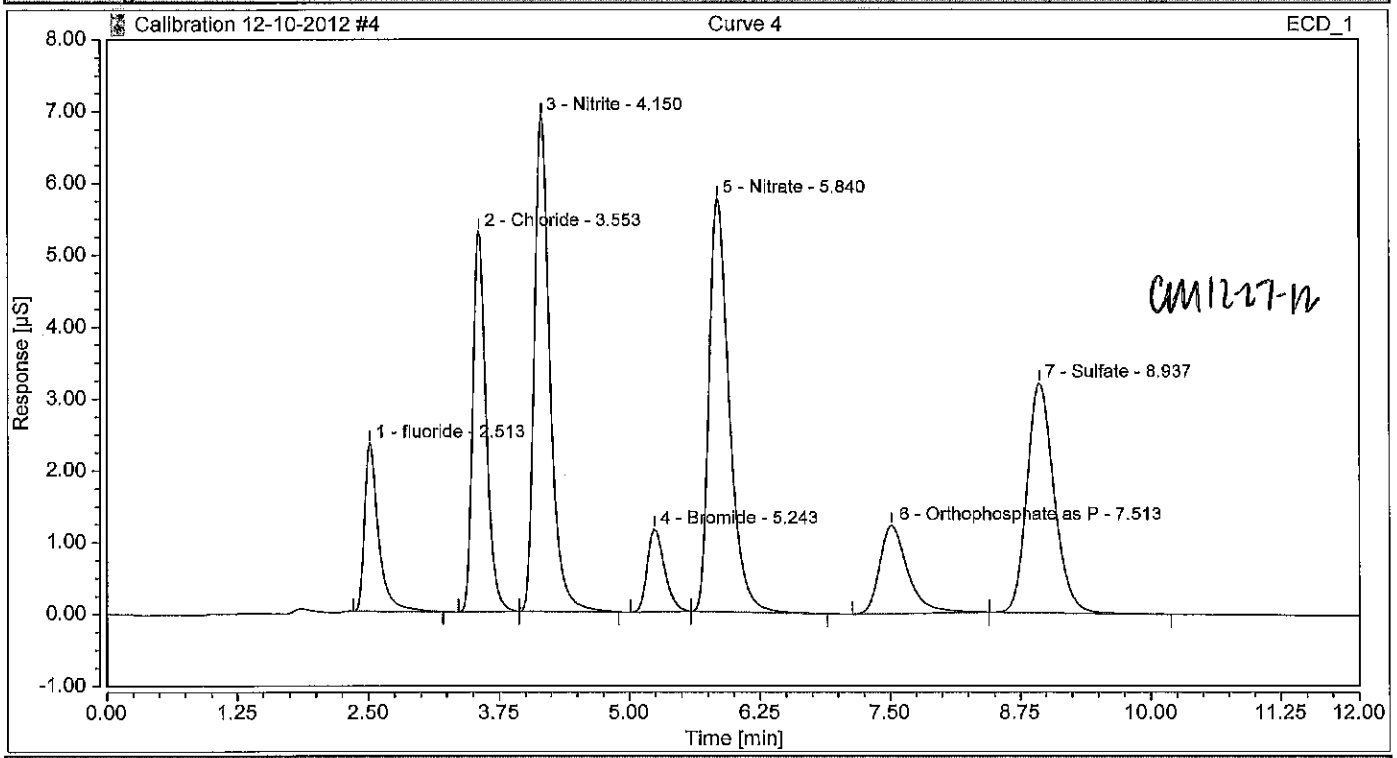
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.221	1.378	8.94	11.68	0.6006
2	Chloride	3.553	0.252	1.660	10.22	14.07	0.8996
3	Nitrite	4.153	0.593	3.339	24.04	28.31	0.9252
4	Bromide	5.260	0.105	0.535	4.27	4.53	0.9667
5	Nitrate	5.867	0.626	2.752	25.40	23.33	0.9406
6	Orthophosphate as P	7.513	0.189	0.573	7.67	4.86	0.9506
7	Sulfate	8.933	0.480	1.560	19.44	13.22	2.4455
Total:			**2.466**	**11.797**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 4**	*Run Time (min):*	**12.00**
Vial Number:	**RE4**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**10/Dec/12 14:53**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

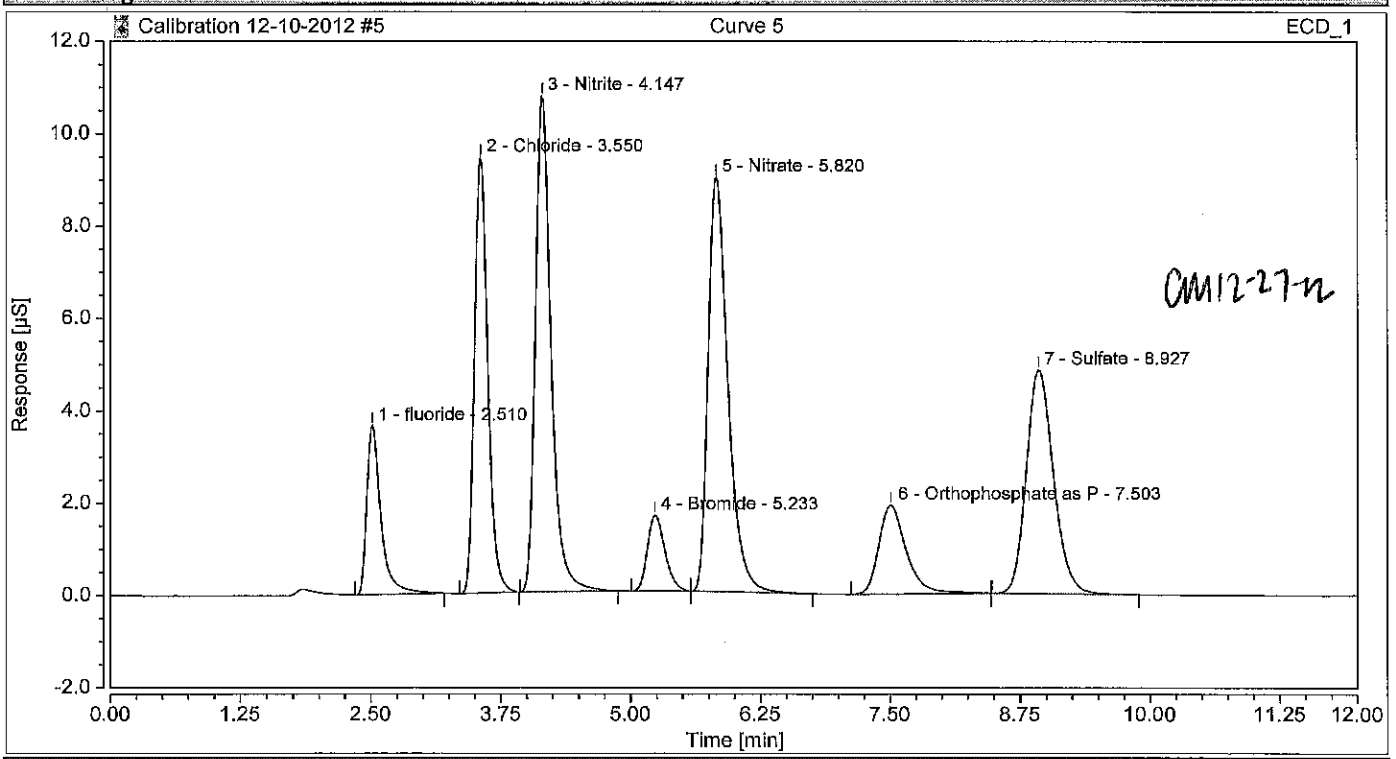
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.364	2.336	6.96	9.04	0.9901
2	Chloride	3.553	0.786	5.287	15.04	20.46	2.8028
3	Nitrite	4.150	1.211	6.899	23.19	26.69	1.8899
4	Bromide	5.243	0.220	1.149	4.22	4.45	2.0217
5	Nitrate	5.840	1.286	5.750	24.62	22.25	1.9313
6	Orthophosphate as P	7.513	0.386	1.227	7.38	4.75	1.9367
7	Sulfate	8.937	0.970	3.196	18.58	12.37	4.9475
Total:			**5.223**	**25.845**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 5**	*Run Time (min):*	**12.00**
Vial Number:	**RE5**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**05**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**10/Dec/12 15:06**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

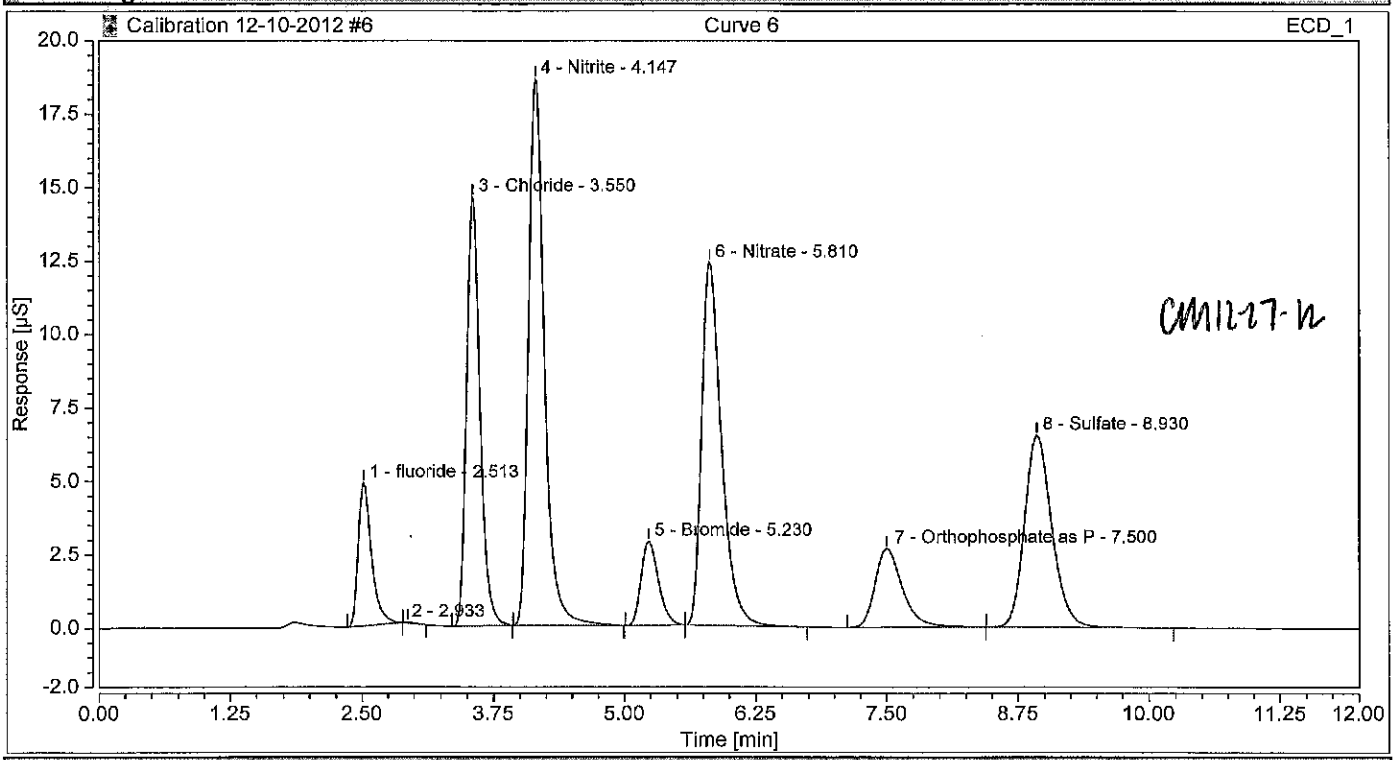
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.510	0.573	3.649	6.97	8.86	1.5592
2	Chloride	3.550	1.392	9.432	16.94	22.90	4.9673
3	Nitrite	4.147	1.895	10.735	23.06	26.06	2.9567
4	Bromide	5.233	0.318	1.641	3.87	3.98	2.9172
5	Nitrate	5.820	1.986	8.970	24.17	21.78	2.9829
6	Orthophosphate as P	7.503	0.590	1.923	7.18	4.67	2.9639
7	Sulfate	8.927	1.463	4.843	17.80	11.76	7.4600
Total:			**8.217**	**41.194**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**Curve 6**	*Run Time (min):*	**12.00**
Vial Number:	**RE6**	*Injection Volume:*	**25.00**
Injection Type:	**Calibration Standard**	*Channel:*	**ECD_1**
Calibration Level:	**06**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**10/Dec/12 15:19**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

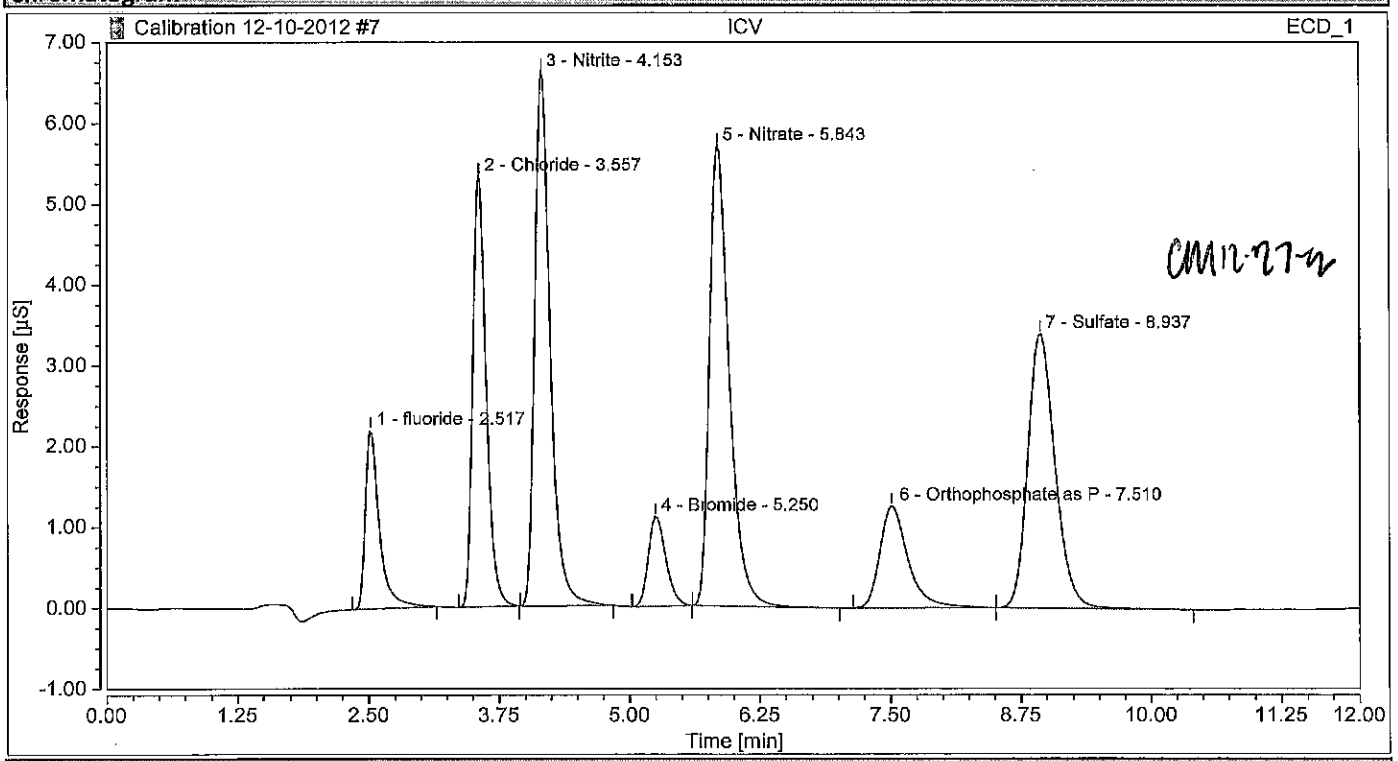
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.513	0.718	4.848	5.90	7.76	1.9545
2		2.933	0.003	0.021	0.02	0.03	n.a.
3	Chloride	3.550	2.135	14.591	17.55	23.36	7.6161
4	Nitrite	4.147	3.261	18.589	26.82	29.76	5.0886
5	Bromide	5.230	0.550	2.858	4.53	4.58	5.0484
6	Nitrate	5.810	2.707	12.337	22.26	19.75	4.0658
7	Orthophosphate as P	7.500	0.812	2.681	6.68	4.29	4.0768
8	Sulfate	8.930	1.975	6.532	16.24	10.46	10.0721
Total:			**12.161**	**62.458**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**12.00**
Vial Number:	**RA1**	*Injection Volume:*	**25.00**
Injection Type:	**Check Standard**	*Channel:*	**ECD_1**
Calibration Level:	**04**	*Wavelength:*	**n.a.**
Instrument Method:	**Seven Anion**	*Bandwidth:*	**n.a.**
Processing Method:	**Seven Anions**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**10/Dec/12 15:33**	*Sample Weight:*	**1.0000**

Chromatogram



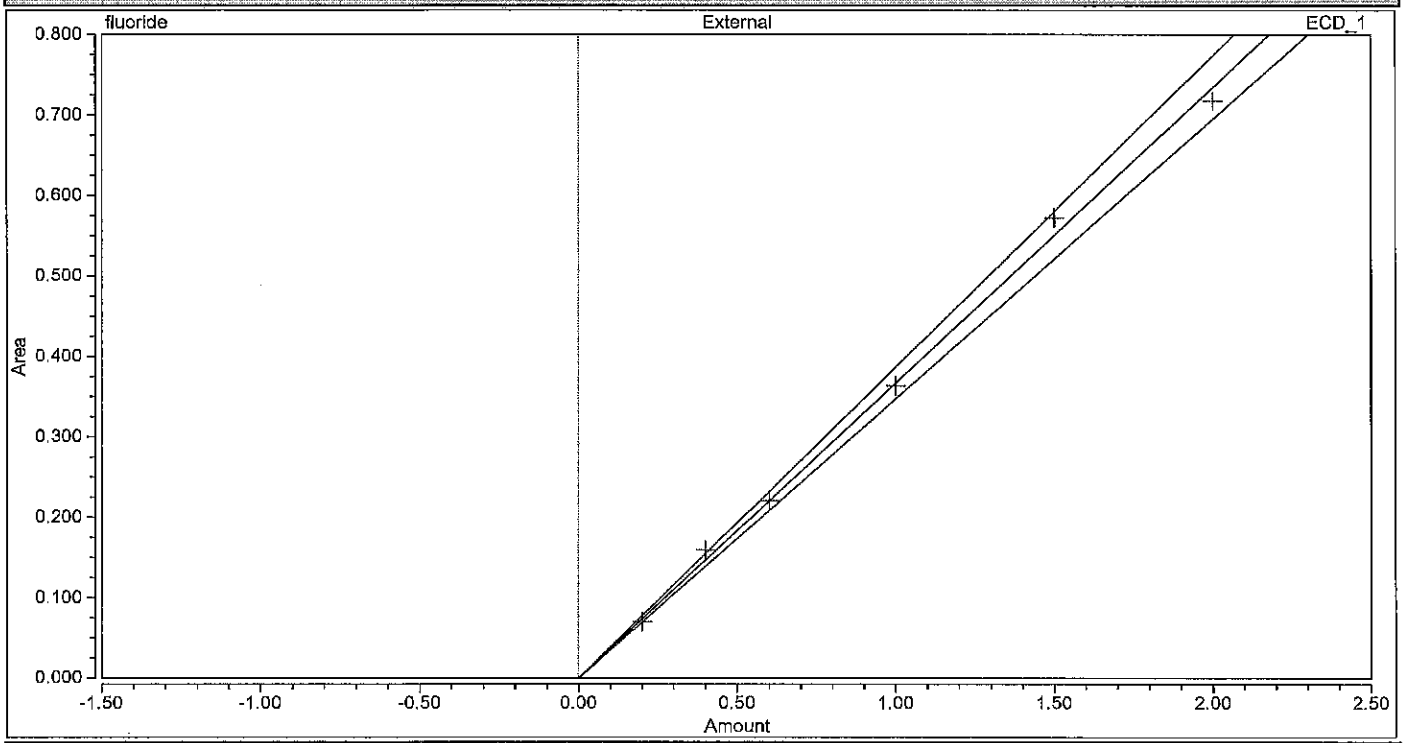
Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount
1	fluoride	2.517	0.346	2.210	6.66	8.63	0.9420
2	Chloride	3.557	0.788	5.328	15.18	20.82	2.8126
3	Nitrite	4.153	1.156	6.607	22.26	25.81	1.8037
4	Bromide	5.250	0.216	1.109	4.16	4.33	1.9813
5	Nitrate	5.843	1.266	5.691	24.38	22.23	1.9019
6	Orthophosphate as P	7.510	0.393	1.257	7.57	4.91	1.9755
7	Sulfate	8.937	1.028	3.393	19.79	13.26	5.2428
Total:			**5.194**	**25.595**	**100.00**	**100.00**	

Calibration

Calibration Details	n.a.		
Calibration Type	Lin	*Offset (C0)*	0.0000
Evaluation Type	Area	*Slope (C1)*	0.3672
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9971

Calibration Plot fluoride



Calibration Results fluoride

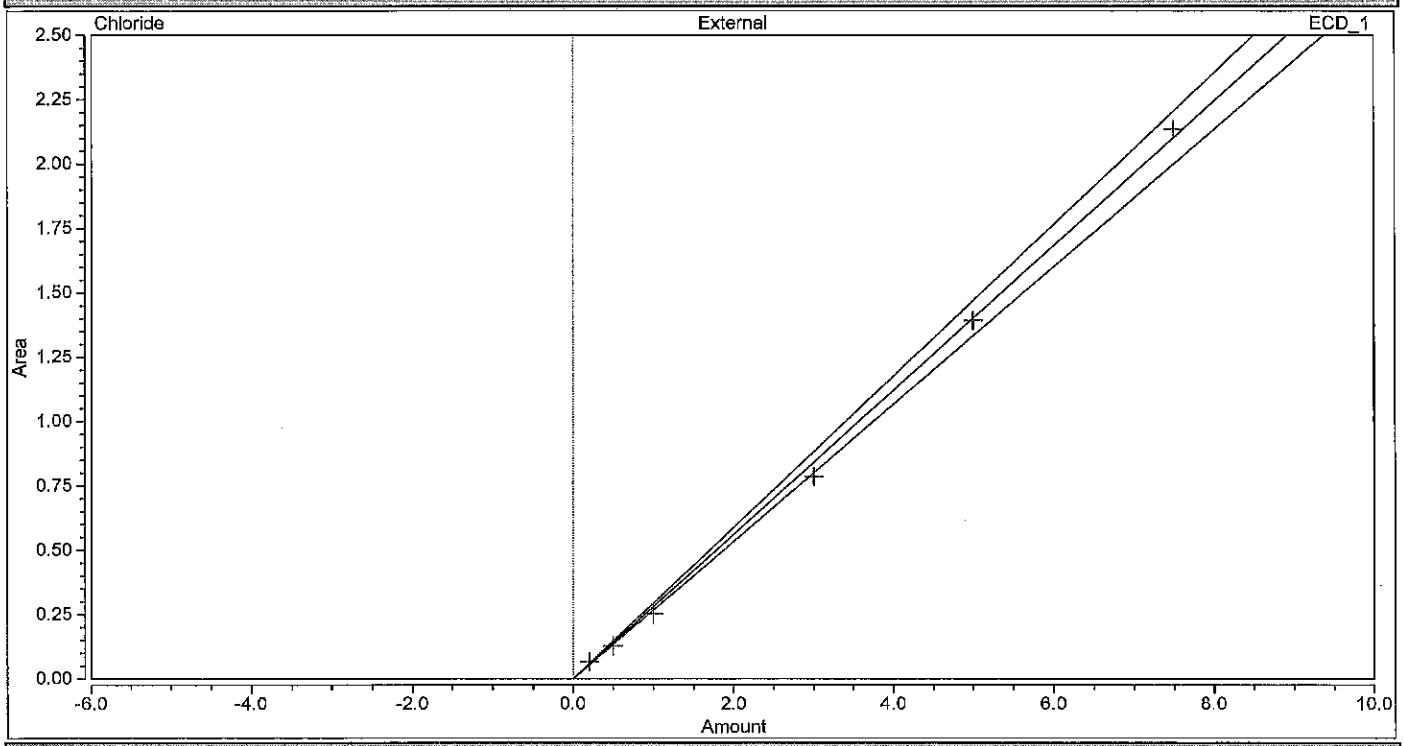
No.	Injection Name	Calibration Level	X Value fluoride ECD_1	Y Value fluoride ECD_1	Y Value fluoride ECD_1	Area µS*min fluoride ECD_1	Height µS fluoride ECD_1
1	Curve 1	01	0.2000	0.0699	0.0699	0.070	0.448
2	Curve 2	02	0.4000	0.1593	0.1593	0.159	0.963
3	Curve 3	03	0.6000	0.2205	0.2205	0.221	1.378
4	Curve 4	04	1.0000	0.3636	0.3636	0.364	2.336
5	Curve 5	05	1.5000	0.5725	0.5725	0.573	3.649
6	Curve 6	06	2.0000	0.7177	0.7177	0.718	4.848

Colleen Meade 12-27-12

Calibration

Calibration Details	n.a.		
Calibration Type	Lin	*Offset (C0)*	0.0000
Evaluation Type	Area	*Slope (C1)*	0.2803
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9985

Calibration Plot Chloride



Calibration Results Chloride

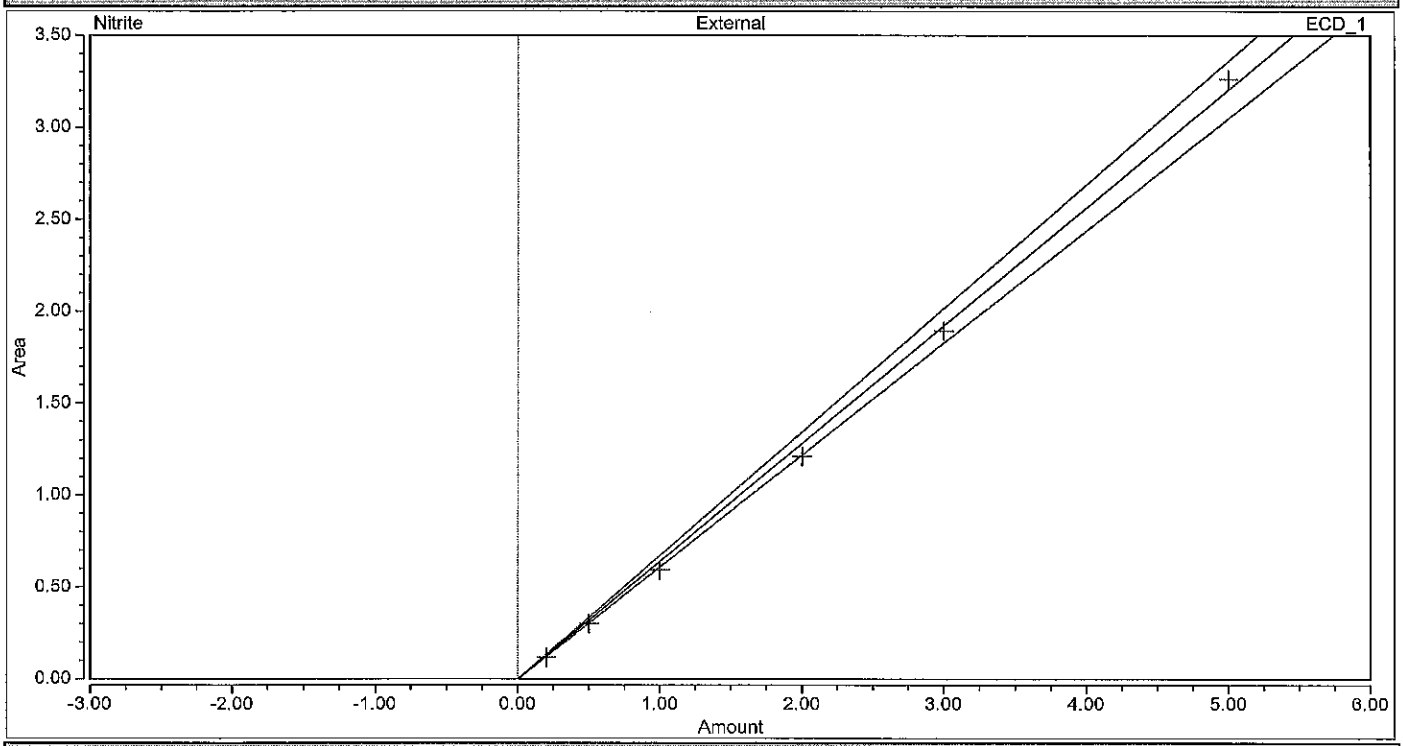
No.	Injection Name	Calibration Level	X Value Chloride ECD_1	Y Value Chloride ECD_1	Y Value Chloride ECD_1	Area µS*min Chloride ECD_1	Height µS Chloride ECD_1
1	Curve 1	01	0.2000	0.0663	0.0663	0.066	0.422
2	Curve 2	02	0.5000	0.1273	0.1273	0.127	0.859
3	Curve 3	03	1.0000	0.2522	0.2522	0.252	1.660
4	Curve 4	04	3.0000	0.7856	0.7856	0.786	5.287
5	Curve 5	05	5.0000	1.3922	1.3922	1.392	9.432
6	Curve 6	06	7.5000	2.1346	2.1346	2.135	14.591

Colleen Moore 12-27-12

Calibration

Calibration Details	n.a.		
Calibration Type	Lin	*Offset (C0)*	0.0000
Evaluation Type	Area	*Slope (C1)*	0.6409
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9983

Calibration Plot Nitrite



Calibration Results Nitrite

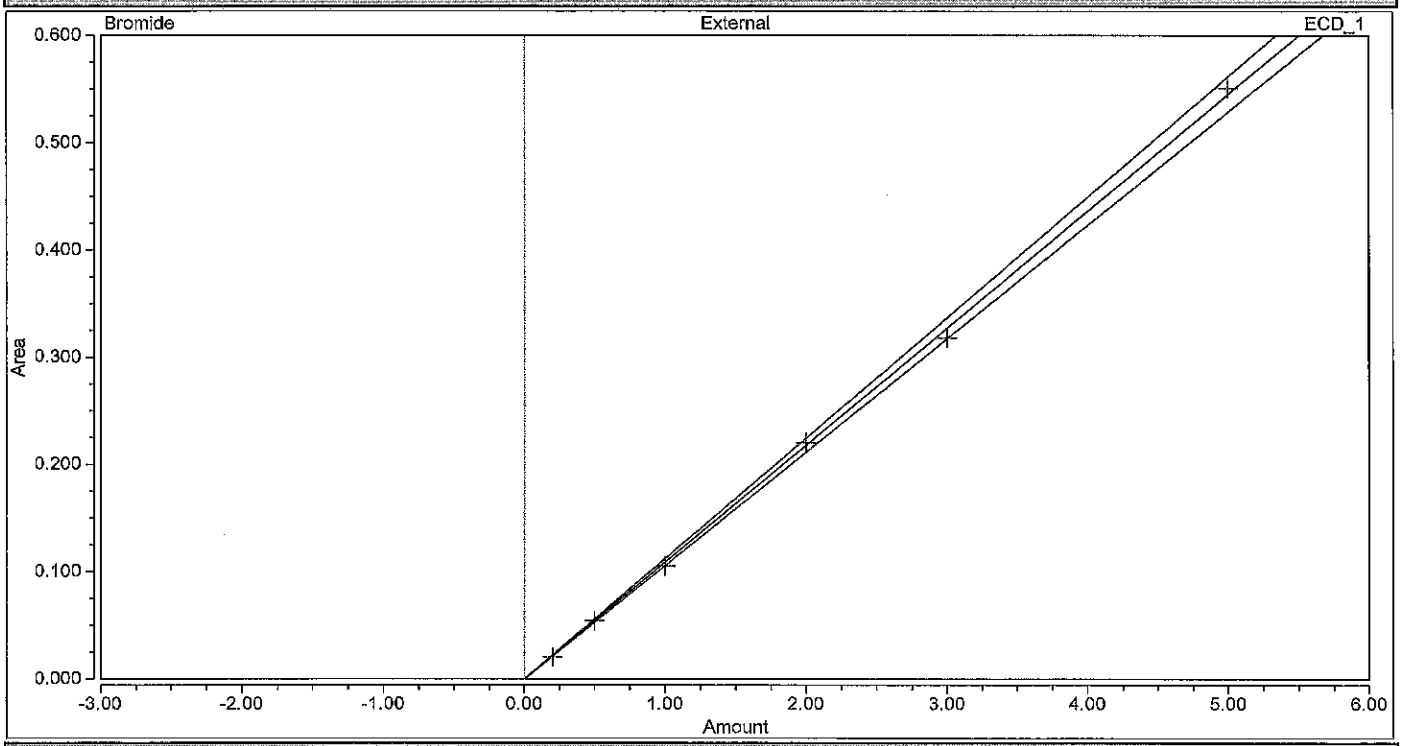
No.	Injection Name	Calibration Level	X Value Nitrite ECD_1	Y Value Nitrite ECD_1	Y Value Nitrite ECD_1	Area µS*min Nitrite ECD_1	Height µS Nitrite ECD_1
1	Curve 1	01	0.2000	0.1173	0.1173	0.117	0.660
2	Curve 2	02	0.5000	0.3012	0.3012	0.301	1.700
3	Curve 3	03	1.0000	0.5930	0.5930	0.593	3.339
4	Curve 4	04	2.0000	1.2113	1.2113	1.211	6.899
5	Curve 5	05	3.0000	1.8951	1.8951	1.895	10.735
6	Curve 6	06	5.0000	3.2615	3.2615	3.261	18.589

Colleen Moore 12-27-12

Calibration

Calibration Details	n.a.		
Calibration Type	Lin	*Offset (C0)*	0.0000
Evaluation Type	Area	*Slope (C1)*	0.1090
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9993

Calibration Plot **Bromide**



Calibration Results **Bromide**

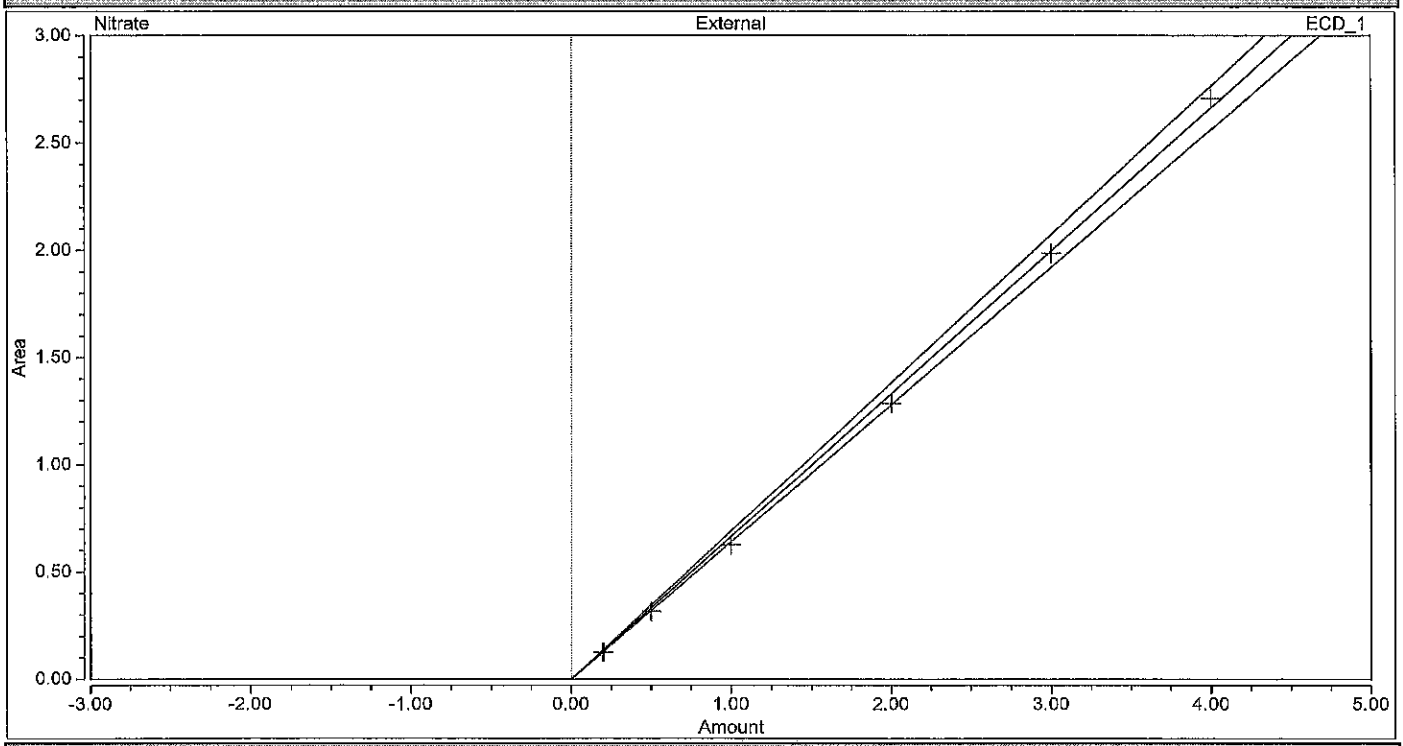
No.	Injection Name	Calibration Level	X Value Bromide ECD_1	Y Value Bromide ECD_1	Y Value Bromide ECD_1	Area µS*min Bromide ECD_1	Height µS Bromide ECD_1
1	Curve 1	01	0.2000	0.0206	0.0206	0.021	0.106
2	Curve 2	02	0.5000	0.0542	0.0542	0.054	0.275
3	Curve 3	03	1.0000	0.1054	0.1054	0.105	0.535
4	Curve 4	04	2.0000	0.2204	0.2204	0.220	1.149
5	Curve 5	05	3.0000	0.3181	0.3181	0.318	1.641
6	Curve 6	06	5.0000	0.5505	0.5505	0.550	2.858

Colleen Moore 12-27-12

Calibration

Calibration Details	n.a.		
Calibration Type	Lin	*Offset (C0)*	0.0000
Evaluation Type	Area	*Slope (C1)*	0.6659
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9988

Calibration Plot Nitrate



Calibration Results Nitrate

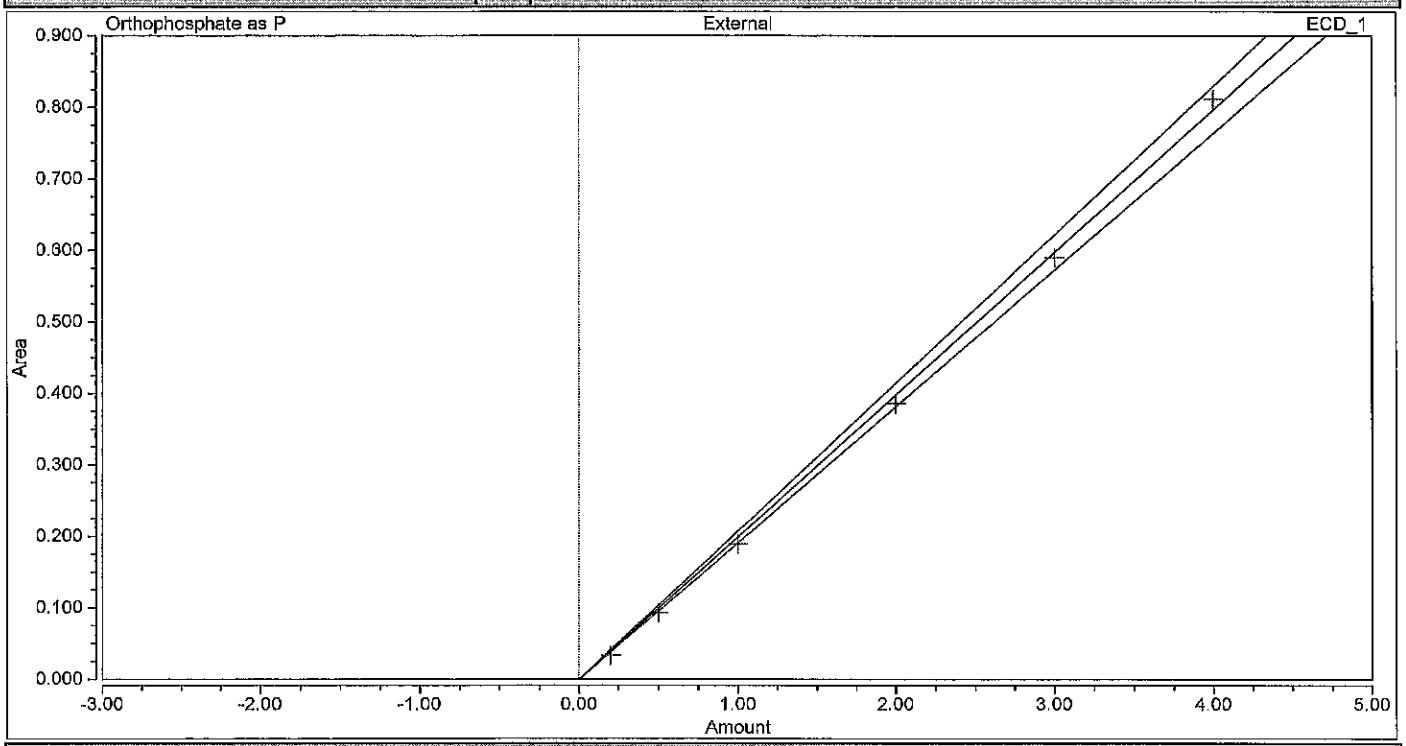
No.	Injection Name	Calibration Level	X Value Nitrate ECD_1	Y Value Nitrate ECD_1	Y Value Nitrate ECD_1	Area µS*min Nitrate ECD_1	Height µS Nitrate ECD_1
1	Curve 1	01	0.2000	0.1256	0.1256	0.126	0.556
2	Curve 2	02	0.5000	0.3160	0.3160	0.316	1.387
3	Curve 3	03	1.0000	0.6264	0.6264	0.626	2.752
4	Curve 4	04	2.0000	1.2860	1.2860	1.286	5.750
5	Curve 5	05	3.0000	1.9863	1.9863	1.986	8.970
6	Curve 6	06	4.0000	2.7074	2.7074	2.707	12.337

Colleen Moore 12-27-12

Calibration

Calibration Details	n.a.		
Calibration Type	Lin	*Offset (C0)*	0.0000
Evaluation Type	Area	*Slope (C1)*	0.1991
Number of Calibration Points	6	*Curve (C2)*	0.0000
Number of disabled Calibration Points	0	*R-Square*	0.9986

Calibration Plot Orthophosphate as P



Calibration Results Orthophosphate as P

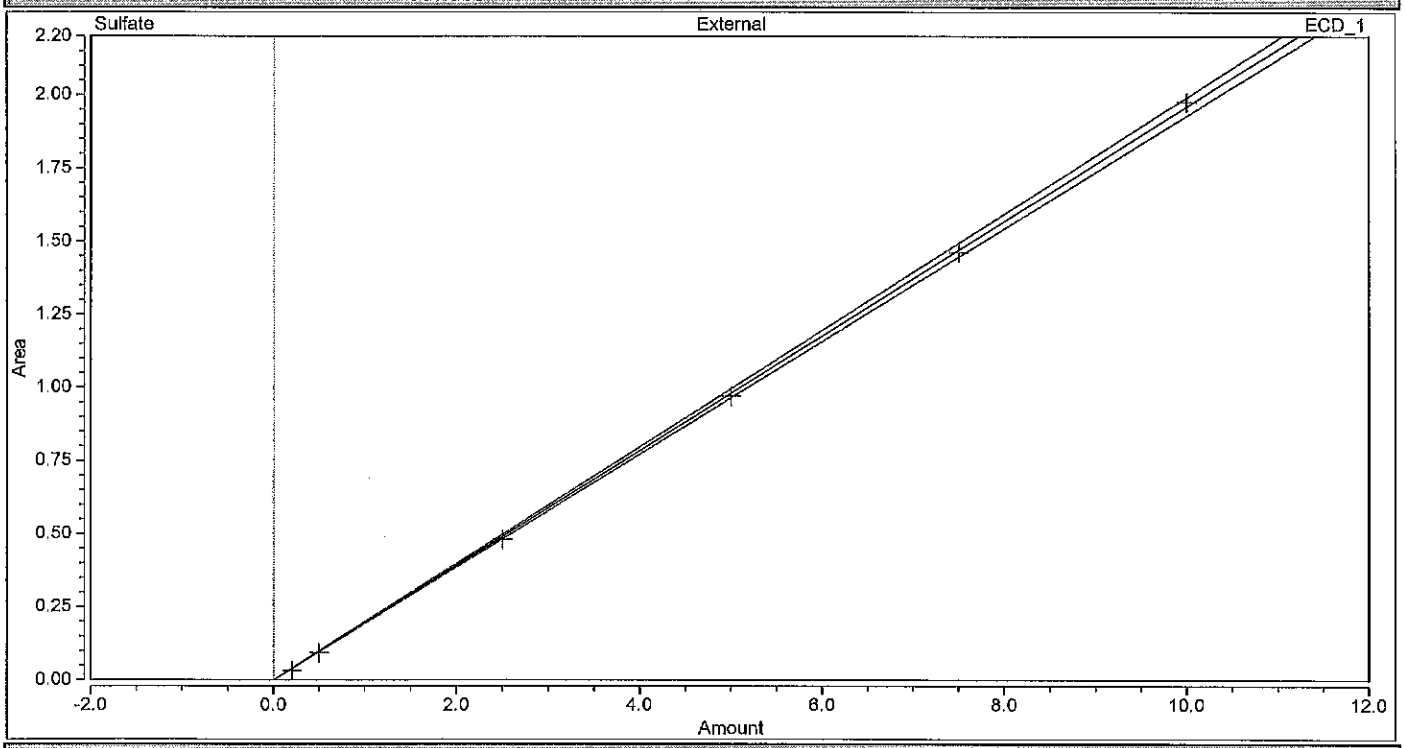
No.	Injection Name	Calibration Level	X Value rthophosphate as ECD_1	Y Value rthophosphate as ECD_1	Y Value thophosphate as ECD_1	Area µS*min thophosphate as ECD_1	Height µS thophosphate as ECD_1
1	Curve 1	01	0.2000	0.0333	0.0333	0.033	0.098
2	Curve 2	02	0.5000	0.0930	0.0930	0.093	0.278
3	Curve 3	03	1.0000	0.1893	0.1893	0.189	0.573
4	Curve 4	04	2.0000	0.3856	0.3856	0.386	1.227
5	Curve 5	05	3.0000	0.5902	0.5902	0.590	1.923
6	Curve 6	06	4.0000	0.8118	0.8118	0.812	2.681

Colleen Moore 12-27-12

Calibration

Calibration Details	n.a.		
Calibration Type	Lin	*Offset (C0)*	0.0000
Evaluation Type	Area	*Slope (C1)*	0.1961
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	Area µS*min Sulfate ECD_1	Height µS Sulfate ECD_1
1	Curve 1	01	0.2000	0.0317	0.0317	0.032	0.130
2	Curve 2	02	0.5000	0.0924	0.0924	0.092	0.312
3	Curve 3	03	2.5000	0.4796	0.4796	0.480	1.560
4	Curve 4	04	5.0000	0.9702	0.9702	0.970	3.196
5	Curve 5	05	7.5000	1.4629	1.4629	1.463	4.843
6	Curve 6	06	10.0000	1.9751	1.9751	1.975	6.532

Colleen Moore 12-27-12

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Batch Number: 173019 Batch Start Date: 12/13/12 09:37 Batch Analyst: Moore, Colleen L

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WSTICBR1 00005	WSTICBR2 00004	WSTICCL1 00007	WSTICCL2 00007	WSTICN031 00005
ICV 500-173019/1		300.0		100 mL		200 uL		300 uL	
CCV 500-173019/28		300.0		100 mL	100 uL		100 uL		100 uL
CCV 500-173019/40		300.0		100 mL	100 uL		100 uL		100 uL
LCS 500-173019/45		300.0		100 mL		200 uL		300 uL	
CCV 500-173019/52		300.0		100 mL	100 uL		100 uL		100 uL
CCV 500-173019/64		300.0		100 mL	100 uL		100 uL		100 uL
CCV 500-173019/76		300.0		100 mL	100 uL		100 uL		100 uL
500-53164-A-3 MS	VLF-MW-7	300.0	T	100 mL				300 uL	
500-53164-A-3 MS	VLF-MW-7	300.0	T	100 mL				300 uL	
500-53164-A-3 MS	VLF-MW-7	300.0	T	100 mL				300 uL	
500-53164-A-3 MSD	VLF-MW-7	300.0	T	100 mL				300 uL	
500-53164-A-3 MSD	VLF-MW-7	300.0	T	100 mL				300 uL	
CCV 500-173019/88		300.0		100 mL	100 uL		100 uL		100 uL
500-53164-A-3 MSD	VLF-MW-7	300.0	T	100 mL				300 uL	
CCV 500-173019/100		300.0		100 mL	100 uL		100 uL		100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTICNI1 00004	WSTICNO2II 00002	WSTICNO32 00008	WSTICS1 00006	WSTICS2 00005	
ICV 500-173019/1		300.0			200 uL	200 uL		500 uL	
CCV 500-173019/28		300.0		100 uL			250 uL		
CCV 500-173019/40		300.0		100 uL			250 uL		
LCS 500-173019/45		300.0			200 uL	200 uL		500 uL	
CCV 500-173019/52		300.0		100 uL			250 uL		
CCV 500-173019/64		300.0		100 uL			250 uL		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Batch Number: 173019 Batch Start Date: 12/13/12 09:37 Batch Analyst: Moore, Colleen L

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	WSTICNI1 00004	WSTICNO2II 00002	WSTICNO32 00008	WSTICS1 00006	WSTICS2 00005	
CCV 500-173019/76		300.0		100 uL			250 uL		
500-53164-A-3 MS	VLF-MW-7	300.0	T		200 uL	200 uL		500 uL	
500-53164-A-3 MS	VLF-MW-7	300.0	T		200 uL	200 uL		500 uL	
500-53164-A-3 MS	VLF-MW-7	300.0	T		200 uL	200 uL		500 uL	
500-53164-A-3 MSD	VLF-MW-7	300.0	T		200 uL	200 uL		500 uL	
500-53164-A-3 MSD	VLF-MW-7	300.0	T		200 uL	200 uL		500 uL	
CCV 500-173019/88		300.0		100 uL			250 uL		
500-53164-A-3 MSD	VLF-MW-7	300.0	T		200 uL	200 uL		500 uL	
CCV 500-173019/100		300.0		100 uL			250 uL		

Batch Notes	
Batch Comment	AG14A-5UM/AS14A-5UM
Eluent 1 Lot	ELUENTCONC00005
Filter Lot #	ACRODISC21782182-0.45

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Batch Number: 173256 Batch Start Date: 12/17/12 19:37 Batch Analyst: Moore, Colleen L

Batch Method: SM 2320B Batch End Date: 12/18/12 12:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CalcMsg	FinalAmount	WCSTAK 00006		
MB 500-173256/28		SM 2320B			InitialAmount is blank				
LCS 500-173256/29		SM 2320B		50 mL	BuretStart2 is blank	50 mL	1000 uL		
500-53164-I-1	VLF-MW-6	SM 2320B	T		InitialAmount is blank				
500-53164-I-2	VLF-MW-6A	SM 2320B	T		InitialAmount is blank				
500-53164-I-3	VLF-MW-7	SM 2320B	T		InitialAmount is blank				
500-53164-I-3 DU	VLF-MW-7	SM 2320B	T		InitialAmount is blank				
500-53164-I-4	VLF-MW-5	SM 2320B	T		InitialAmount is blank				
500-53164-I-5	VLF-MW-2	SM 2320B	T		InitialAmount is blank				

Batch Notes	
pH Buffer 1 ID	pH4RED_00026
pH Buffer 2 ID	pH7YELLOW_00021
pH Buffer 3 ID	pH7BLUE_00016
pH Buffer 4 ID	pH7CLEAR_00036
First End time	See Raw Data
Sulfuric Acid Vendor	Purchased
Lot # of hydrochloric acid	0.02N H2SO4_00004
HCl Vendor	JT Baker
Nominal Amount Used	50 mL
Probe ID	VWR Symphony
First Start time	See Raw Data
Normality of first Titrant	0.02 N

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-53164-1

SDG No.:

Batch Number: 173374 Batch Start Date: 12/18/12 10:41 Batch Analyst: Deb, Khona

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCSTTC1 00058	WCSTTC2 00072		
ICV 500-173374/1		SM 5310C		200 mL	200 mL		2000 uL		
LCS 500-173374/4		SM 5310C		200 mL	200 mL		1000 uL		
CCV 500-173374/11		SM 5310C		200 mL	200 mL	1 mL			
500-53164-D-3 MS	VLF-MW-7	SM 5310C	T	40 mL	40 mL		200 uL		
500-53164-D-3 MSD	VLF-MW-7	SM 5310C	T	40 mL	40 mL		200 uL		
CCV 500-173374/18		SM 5310C		200 mL	200 mL	1 mL			

Batch Notes	
Lot # of Phosphoric Acid	21% H3PO4 00015
Sodium Persulfate Reagent ID Number	Na Persulfate 00022

Basis	Basis Description
T	Total/NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: Jessica Lepore
Company: OTIE
Address: 100 W. Monroe St
Address: Suite 300
Phone: (312) 220-7000 ext. 26
Fax:
E-Mail: jlepore@otie.com

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-53164
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler: 1.4

Client: OTIE
Client Project #: 2010101 / 2007
Project Name: Vulcan-Louisville Fansteel
Project Location/State: North Chicago, IL
Lab Project #:
Sampler: Jessica Lepore / Elisa Walker
Lab PM: Donna Ingersoll

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Metals	VOCs	Anions (NO_2, NO_3, Cl, SO_4)	TOC	RSK-175	Alkalinity				Comments
Preservative							3	1	8	2	1	8				
1		VLF-MW-6	12/11/12	1031	11	W	1	3	1	2	3	1				
2		VLF-MW-6A	12/11/12	1041	11	W	1	3	1	2	3	1				
3		VLF-MW-7	12/11/12	1130	21	W	2	6	2	4	6	1				MS/MSD
4		VLF-MW-5	12/11/12	1223	11	W	1	3	1	2	3	1				
		~~VLF-MW-1~~	~~12/11/12~~			~~W~~	~~1~~	~~3~~	~~1~~	~~2~~	~~3~~	~~1~~				
5		VLF-MW-2	12/11/12	1420		W	1	3	1	2	3	1				
6		Trip Blank														added by TA

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	OTIE	12/11/12	16:30	[signature]	TA	12/12/12	1020

Lab Courier
Shipped FX
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-506 (1209)

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

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Ingersoll, Donna L	Carrier Tracking No(s):	COC No: 500-29246.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.ingersoll@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 500-53164-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 12/31/2012			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Vulcan Louisville Fansteel	Project #: 50004270			
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 - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	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)	RSK_175	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
VLF-MW-6 (500-53164-1)	12/11/12	10:11 Central		Water			X	3	
VLF-MW-6A (500-53164-2)	12/11/12	10:11 Central		Water			X	3	
VLF-MW-7 (500-53164-3)	12/11/12	11:30 Central		Water			X	3	
VLF-MW-7 (500-53164-3MS)	12/11/12	11:30 Central	MS	Water			X	3	
VLF-MW-7 (500-53164-3MSD)	12/11/12	11:30 Central	MSD	Water			X	3	
VLF-MW-5 (500-53164-4)	12/11/12	12:23 Central		Water			X	3	
VLF-MW-2 (500-53164-5)	12/11/12	14:20 Central		Water			X	2	

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)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/12/12 1330	TA	[signature]	12/13/12 1000	TABLIB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

01/03/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Login Number: 53164

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	1.4
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
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.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 500-53164-1

Login Number: 53164
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 12/13/12 11:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	563246
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	1.8ºC IR GUN ID 181. CF -0.2
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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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.	False	Check done at department level as required.